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Minister of Trade and Commerce

CANADA
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
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GENERAL MANUFACTURING STATISTICS

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SUGAR INDUSTRY
IN
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1946



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DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

GENERAL MANUFACTURING STATISTICS

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THE SUGAR REFINING INDUSTRY IN CANADA, 1946

The output of the sugar refining industry in 1946 was 20,584,658 pounds less than in 1945. The production of sugar of all kinds amounted to 959,945,470 pounds (754,165,670 pounds made from cane and 205,779,800 pounds from beets). The production of cane sugar decreased by 62,526,668 pounds and that of beet sugar increased by 41,942,010 pounds. Granulated sugar comprises over 86 per cent of the total sugar produced.

The production of beet sugar which reached an all time high in 1941 with an output of 215,879,271 pounds, declined to 129,268,010 pounds in 1943 but rose to 165,318,840 pounds in 1944, declining slightly to 163,837,790 pounds in 1945 and again rising to 205,779,800 in 1946. The percentage of beet sugar to the total produced was 23.6 in 1942, the highest since the inception of the annual census in 1917. The percentage in 1943, however, was only 14.8 but rose to 16.2 in 1944, to 16.7 in 1945 and 21.4 in 1946.

Prices at the factory of refined sugar varied slightly during 1946. Beet sugar declined from 6.84 to 6.81 cents, and cane sugar from 5.97 to 5.95 cents. Due to the increase in the proportion of the higher priced beet sugar produced, the value of sugar of all kinds rose from 6.12 to 6.14 cents.

The refineries are located as follows: Nova Scotia 1, New Brunswick 1, Quebec 3, Ontario 2, Manitoba 1, Alberta 2 and British Columbia 1. These refineries in 1946 reported a gross value of production of \$61,181,621, they employed 2,633 persons who received \$5,010,789 in salaries and wages, and paid out \$45,900,913 for raw materials. From 1943 to 1946 several plants were shut down and their operations pooled with other refineries in the vicinity. This was due to the limited amount of raw sugar available as well as a shortage of labour.

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

THE SUGAR REFINING INDUSTRY IN CANADA, 1946

Table 1. - Principal Statistics of the Sugar Refining Industry,
Representative Years, 1917 - 1946

Year	Estab-	Em	Salaries	Cost of	Gross x	
	lish- ments	Capital Invested	ploy- ees	and Wages	Materials Used	Value of Production
	No.	\$	No.	\$	\$	
1917	8	31,818,133	2,527	2,324,828	53,179,911	61,429,787
1920	8	46,719,034	3,118	4,632,814	103,689,088	119,086,731
1925	8	50,089,717	2,784	3,828,442	54,457,385	68,445,879
1929	8	43,534,113	2,325	3,686,037	35,640,124	47,151,960
1933	8	35,758,074	2,092	3,048,817	22,846,473	37,189,960
1934	8	33,151,249	2,080	2,919,662	24,099,994	36,007,208
1936	10	33,199,993	2,559	3,413,698	27,924,998	40,405,377
1937	10	35,413,781	2,332	3,318,861	29,013,057	40,916,044
1938	10	36,347,866	2,318	3,315,633	28,838,685	41,392,096
1939	10	40,511,884	2,399	3,467,367	33,728,967	49,896,763
1940	11	42,966,073	2,538	3,623,661	42,150,263	57,274,122
1941	11	43,915,168	2,642	3,834,639	46,067,190	62,402,709
1942	11	45,232,672	2,326	3,772,431	33,283,971	45,969,711
1943	10	44,144,876	2,274	4,068,473	38,613,832	51,239,749
1944	11	/	2,590	4,576,060	48,033,547	63,874,868
1945	11	/	2,713	4,860,264	46,518,380	61,821,443
1946	11	/	2,633	5,010,789	45,900,913	61,181,621

x Selling value at the factory. Statistics since 1935 do not include excise taxes.

/ Not collected for 1944, 1945 and 1946.

Table 2. - Comparison of Principal Statistics

Items	1946		1945		+ Increase - Decrease
	No.	\$	No.	\$	
Refineries reporting	No.		11		11
Capital invested	\$		-		-
Employees on salaries -					
Total	No.		378		442
Male	No.		277		329
Female	No.		101		113
Total salaries	\$	1,146,141		1,296,052	- 149,911
Employees on wages - (monthly average) ...					
Total	No.	2,255		2,271	- 16
Male	No.	1,987		1,913	+ 74
Female	No.	268		358	- 90
Total wages	\$	3,864,648		3,564,212	+ 300,436
Cost of fuel and electricity	\$	1,532,486		1,471,412	+ 61,074
Cost of materials used	\$	45,900,913		46,518,380	- 617,467
Gross value of production	\$	61,181,621		61,821,443	- 639,822
Value added by manufacture x	\$	13,748,222		13,831,651	- 83,429

x Gross value of products less cost of materials, fuel and electricity.

NOTE: Profits or losses cannot be estimated from census figures as no data are collected for certain items such as interest, rent, depreciation, taxes, insurance, advertising, etc.

THE SUGAR REFINING INDUSTRY IN CANADA, 1946

Production in Sugar Refineries

Table 3 gives the production of sugar and its by-products by class, quantity and selling value at the refinery for the years 1945 and 1946. The quantity of sugars produced in Canadian refineries during 1946 was less than that of 1945 by 20,584,658 pounds and the selling value by \$1,077,888. The quantity of beet sugar increased by 41,942,010 pounds and cane sugar decreased by 62,526,668 pounds, making the decrease as stated above. Molasses increased in both quantity and value.

Table 3. - Sugar and By-Products

Products	Unit of Measure	1946		1945	
		Quantity	Selling Value at Factory 1/	Quantity	Selling Value at Factory 1/
Sugar - Made from cane	Lbs.	754,165,670	44,890,326	816,692,338	48,791,846
Made from beets	"	205,779,800	14,022,621	163,837,790	11,198,989
Total sugar produced	"	959,945,470	58,912,947	980,530,128	59,990,835
Granulated	"	829,298,810	51,117,520	851,314,065	52,233,169
Yellow or Brown	"	92,319,380	5,065,715	88,954,297	4,883,052
Pulverized (no starch added)	"	3,754,705	260,433	1,642,865	114,890
Icing (starch added)	"	22,723,015	1,543,014	26,430,089	1,809,905
Loaf	"	11,849,560	926,265	12,188,812	949,819
Syrups (not including molasses)	"	13,218,000	554,319	12,649,008	542,321
Molasses - Made from cane	"	13,808,000	226,645	17,881,753	262,391
Made from beet	"	55,838,000	767,621	45,608,363	568,622
Total molasses	"	69,646,000	994,266	63,490,116	831,013
Beet pulp, wet and dried	Tons	121,725	720,089	104,611	457,274
Other products	-	-	-	-	-
TOTAL VALUE OF PRODUCTS			61,181,621		61,821,443

1/ This does not include excise taxes.

THE SUGAR REFINING INDUSTRY IN CANADA, 1946

Production of Sugar Beets and Beetroot Sugar

The number of acres of sugar beets harvested, 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 to 1946. Acreage of sugar beets harvested increased by 7,596 acres, the total yield by 117,059 tons and the total value of the crop by \$1,837,917.

Table 4. - Area, Yield and Value of Sugar Beets in Canada and Production of Refined Beetroot Sugar Compared, 1918 to 1946..

Year	Acres Grown	Total Yield	Yield per Acre	Total Value	Average Price Per Ton	Production and Value (at the refinery) of refined beetroot sugar		
	No.	Tons	Tons	\$	\$ cts.	Lb.	\$	\$ cts. per cwt.
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
1933	43,807	442,391	10.10	2,790,928	6.31	131,392,501	5,713,181	4.35
1934	38,495	412,672	10.72	2,599,982	6.30	114,002,950	4,714,624	4.14
1935	51,985	459,223	8.83	2,881,098	6.27	119,857,668	4,617,733	3.85
1936	x 50,444	555,969	11.02	3,510,922	6.31	156,066,242	6,103,264	3.91
1937	x 43,758	422,152	9.65	2,825,006	6.69	120,440,235	5,230,971	4.34
1938	x 45,194	498,102	11.02	3,403,635	6.83	143,013,847	6,001,380	4.20
1939	x 57,316	586,444	10.23	4,417,372	7.53	169,320,343	8,063,332	4.76
1940	x 77,548	825,344	10.64	6,022,670	7.30	213,602,511	10,853,665	5.08
1941	x 63,925	708,616	11.08	5,781,151	8.16	215,879,271	11,639,825	5.39
1942	x 62,381	701,884	11.25	6,434,517	9.17	189,066,870	11,349,746	6.00
1943	x 52,693	474,378	9.00	4,592,240	9.68	129,268,010	8,728,995	6.75
1944	x 55,020	564,927	10.27	5,598,383	9.91	165,318,840	11,281,052	6.82
1945	x 59,273	618,790	10.44	6,192,942	10.01	163,837,790	11,198,989	6.84
1946	x 66,869	735,849	11.00	8,030,859	10.91	205,779,800	14,022,621	6.81

x This is the number of acres harvested. The acreage seeded is slightly higher than these figures, being 57,483 acres in 1943, 70,446 in 1944, 63,134 in 1945 and 71,939 acres in 1946.

THE SUGAR REFINING INDUSTRY IN CANADA, 1946

Table 5. - Wholesale Prices of Sugar at Montreal and Vancouver for Specified Months
(Compiled by the Prices Branch)

Sugar at Montréal				Sugar at Vancouver			
Sugar, Granulated Standard, per Cwt.	Sugar No. 1 Light Yellow per Cwt.	Sugar Granulated f.o.b. Factory	Sugar No. 3 Yellow, per Cwt. f.o.b. Factory				
1946	1945	1946	1945	1946	1945	1946	1945
\$	\$	\$	\$	\$	\$	\$	\$
January	6.89	6.89	6.63	6.63	6.89	6.89	6.51
April	6.89	6.89	6.63	6.63	6.89	6.89	6.51
July	6.89	6.89	6.63	6.63	6.89	6.89	6.51
October	6.89	6.89	6.63	6.63	6.89	6.89	6.51

Materials Used

The cost of materials used in the industry during 1946 as shown in Table 6, amounted to \$45,900,913. This is a decrease from the previous year of \$617,467. Raw materials, consisting of raw cane and sugar beets, constitute almost 93 per cent of the total cost, other materials over 2 per cent, and containers of all kinds over 5 per cent. The average cost price of raw cane sugar laid down at the factory was \$4.34 per hundredweight in 1946 and \$4.32 per hundredweight in 1945. The cost at the factory of sugar beets was \$10.91 per ton in 1946 and \$10.01 in 1945.

Table 6. - Materials Used

Kind of Materials	Unit of Measure	1946		1945	
		Quantity	Cost Value at the Refinery	Quantity	Cost Value at the Refinery
Raw cane sugar	Pound	794,813,995	\$34,519,659	854,828,973	\$36,920,439
Sugar beets	Ton	735,849	8,030,859	618,790	6,192,942
Cornstarch	Pound	773,912	48,566	1,008,439	56,908
Boneblack	"	1,198,046	104,733	1,091,307	88,890
Vegetable char	"	849,825	97,560	933,971	86,595
Infusorial earth	"	4,391,733	104,794	3,983,325	102,961
Lime	"	1,347,659	8,684	1,352,141	8,785
Limestone	Ton	37,150	97,862	34,666	90,578
Sulphur	Pound	256,040	6,351	260,787	6,261
Sulphuric acid	"	645,959	7,863	709,085	8,679
Hydrochloric and muriatic acid	"	192,382	7,213	220,452	6,481
Phosphoric acid	"	284,606	22,655	311,661	25,178
Soda ash	"	194,516	4,143	225,609	5,003
Filtering materials, n.e.s.	-	-	12,218	-	14,939
Other chemical materials .	-	-	5,205	-	4,986
Containers (boxes, bags, etc.)	-	-	2,629,871	-	2,524,645
All other materials and supplies	-	-	192,677	-	374,110
TOTAL COST OF MATERIALS ..			45,900,913		46,518,380

THE SUGAR REFINING INDUSTRY IN CANADA, 1946

Employment Statistics

Employment statistics are given in Tables 7, 8 and 9. Wage-earners in 1946 numbered 1,987 males and 268 females, with a payroll of \$3,864,648 while salaried employees numbered 277 males and 101 females, with salaries totalling \$1,146,141. Compared with 1945 there was a decrease of 80 in the number of persons employed and an increase of \$150,525 in the salaries and wages paid. The maximum employment of wage-earners was reached in October with a total of 3,524 and a minimum in March with a total of 1,610.

Table 7. - Employment for Canada by Number, Sex and Remuneration.

Year	Salaried Employees			Wage-earners (Monthly Averages)			Total Employees Salaries and Wages		
	Male	Fe- male	Total Salaries	Male	Fe- male	Total Wages	Male	Fe- male	Salaries and Wages
	No.	No.	\$	No.	No.	\$	No.	No.	\$
1936	345	63	1,169,529	2,064	87	2,244,169	2,409	150	3,413,698
1937	349	65	1,181,584	1,829	89	2,137,277	2,178	154	3,318,861
1938	364	61	1,163,988	1,809	84	2,151,645	2,173	145	3,315,633
1939	346	60	1,187,767	1,888	105	2,279,600	2,234	165	3,467,367
1940	420	81	1,179,056	1,929	108	2,444,605	2,349	189	3,623,661
1941	378	98	1,187,467	2,043	123	2,647,172	2,421	221	3,834,639
1942	353	106	1,162,006	1,701	166	2,610,425	2,054	272	3,772,431
1943	305	119	1,185,276	1,537	313	2,883,197	1,842	432	4,068,473
1944	294	116	1,078,829	1,787	393	3,497,231	2,081	509	4,576,060
1945	329	113	1,296,052	1,913	358	3,564,212	2,242	471	4,860,264
1946	277	101	1,146,141	1,987	268	3,864,648	2,264	369	5,010,789

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

Months	1946		1945	
	Male	Female	Male	Female
January	1,839	286	1,967	392
February	1,539	239	1,821	345
March	1,394	216	1,817	357
April	1,510	219	1,645	369
May	1,587	241	1,678	379
June	1,643	232	1,666	356
July	1,766	252	1,689	349
August	1,854	253	1,702	329
September	2,213	310	1,787	338
October	3,198	326	2,655	407
November	2,866	360	2,649	380
December	2,417	281	1,879	295
Monthly Average	1,987	268	1,913	358

THE SUGAR REFINING INDUSTRY IN CANADA, 1946

Table 9. - Average Weekly Earnings and Number of Wage-earners in the Month of Highest Employment with their Regular Hours of Work.

Number of Hours Worked per Week	1944		1945	
	Number of Employees		Number of Employees	
	Male	Female	Male	Female
30 hours or less	273	34	184	35
31 - 43 hours	394	136	382	129
44 hours	125	31	79	44
45 - 47 hours	140	27	99	36
48 hours	310	88	509	68
49 - 50 hours	77	24	88	14
51 - 54 hours	247	26	157	46
55 hours	63	9	66	8
56 - 64 hours	814	52	718	45
65 hours and over	740	17	939	18
AVERAGE HOURS PER WEEK	53.1	45.2	54.7	45.2
AVERAGE WEEKLY EARNINGS	\$34.76	\$21.99	\$37.51	\$21.99

Note: This information not collected for 1946.

Table 10. - Power Equipment

Classes of Power	1946		1945	
	Manufacturers'		Manufacturers'	
	Number of Units	Rating of Capacity	Number of Units	Rating of Capacity
Steam engines and turbines -				
In use	38	14,378	60	16,737
Idle	29	5,214	8	2,900
Gasoline, gas and oil engines -				
In use	33	851	32	836
Idle	3	45	3	45
Electric motors operated by purchased power -				
In use	606	6,383	702	8,067
Idle	523	8,681	427	7,207
TOTAL POWER AVAILABLE FOR MANUFACTURING.	1,232	35,552	1,232	35,792
Electric motors operated by power generated by the establishment -				
In use	1,691	18,886	1,137	14,876
Idle	224	1,954	82	980
			153	1565
Boilers -				
In use	38	17,174	39	17,881
Idle	19	8,510	16	6,500

THE SUGAR REFINING INDUSTRY IN CANADA, 1946

Table 11. - Consumption of Fuel and Electricity

Kinds of Fuel	Unit of Measure	1946			1945		
		Quantity	Cost	Value	Quantity	Cost	Value
Bituminous Coal, Canadian ..	Ton	58,646	\$356,276		64,875	\$401,327	
" " Imported ..	"	83,801	707,741		87,797	693,269	
Anthracite Coal	"	-	-		986	4,714	
Lignite Coal	"	67,898	158,117		58,794	127,184	
Coke	"	3,349	38,829		2,684	32,090	
Gasoline (x)	Imp. Gal.	42,482	12,660		48,175	14,489	
Fuel Oil	" "	2,372,444	148,667		1,674,483	104,220	
Kerosene or coal oil	" "	2,361	531		2,210	509	
Gas (Manufactured	M Cu. Ft.	726	762		543	607	
Gas (Natural	" " "	-	-		1,768	1,031	
TOTAL COST OF FUEL				1,423,583			1,379,440
Electricity purchased (including service charges)	Kw. H.	10,511,151	108,903	9,914,812		91,972	
TOTAL COST OF FUEL AND ELECTRICITY				1,532,486			1,471,412

(x) Includes gasoline used in cars and trucks.

Table 12. - Exports-Sugar, Molasses and Sugar Beets, 1942-46

Product	Unit of Measure	Quantity	Value
Molasses and syrup, n.o.p. -			
1942	Gal.	2,341,278	480,401
1943	"	2,140,652	529,145
1944	"	1,067,701	420,465
1945	"	876,015	566,977
1946	"	1,639,397	615,070
Sugar, n.o.p. -			
1942	Gwt.	161,435	698,332
1943	"	22,392	127,669
1944	"	163,952	887,693
1945	"	447,805	2,630,820
1946	"	20,982	127,001
Beets, sugar -			
1942	Ton	-	-
1943	"	-	-
1944	"	1,283	9,580
1945	"	-	-
1946	"	-	-

THE SUGAR REFINING INDUSTRY IN CANADA, 1946

Table 13. - Imports of Sugar, Molasses, etc. 1942-46

Product	Unit of Measure	Quantity	Value
Molasses of cane testing 35° but not less than 20°-		\$	
1942	Gal.	1,549,844	237,048
1943	"	44,108	21,266
1944	"	25,574	6,658
1945	"	134,214	41,675
1946	"	5,940,384	997,471
Molasses of cane, imported direct, testing not less than 35° nor more than 56° -			
1942	Gal.	37,452	15,654
1943	"	66,260	36,640
1944	"	29,042	17,105
1945	"	274,791	115,217
1946	"	700,988	318,695
Molasses of cane the produce of any country entitled to the British Preferential Tariff, imported direct, testing not more than 56° -			
1942	Gal.	662,057	240,528
1943	"	2,581,705	1,004,057
1944	"	5,625,763	2,195,943
1945	"	4,613,815	1,787,653
1946	"	4,488,167	2,143,147
Syrups and molasses of all kinds, the product of the sugar cane or beet, n.o.p. and all imitations and substitutes -	Cwt.		
1942	Cwt.	4,133	20,619
1943	"	7,707	50,765
1944	"	10,641	68,085
1945	"	10,685	68,769
1946	"	10,175	80,029
Sugar when imported or purchased in bond in Canada for refining purposes only -	Cwt.		
1942	Cwt.	6,095,716	16,421,694
1943	"	8,253,976	23,654,547
1944	"	8,916,586	28,709,555
1945	"	8,376,764	28,482,362
1946	"	8,616,972	31,790,956
All sugar above No. 16 D.S. in colour, and all refined sugars of whatever kinds, grades or standards, not covered by tariff item 135, and sugar syrups testing over 56° -	Cwt.		
1942	Cwt.	155,811	486,342
1943	"	154,464	486,504
1944	"	141,822	519,955
1945	"	113,858	467,997
1946	"	155,740	624,685

THE SUGAR REFINING INDUSTRY IN CANADA, 1946

List of Sugar Refineries

NOVA SCOTIA

Acadia Sugar Refining Company Limited Dartmouth
(Operations pooled with "Atlantic Sugar Refineries, Ltd." since 1943).

NEW BRUNSWICK

(1) Atlantic Sugar Refineries, Limited Saint John

QUEBEC

(1) Canada & Dominion Sugar Company Ltd. 1410 Montmorency St., Montreal.
St. Lawrence Sugar Refineries, Limited 4026 Notre Dame St. E., Montreal.
(Operations pooled with "Canada & Dominion Sugar Co. Ltd." since 1943).
(2) Quebec Sugar Refinery St. Hilaire

ONTARIO

(2) Canada & Dominion Sugar Company, Limited Chatham
Canada & Dominion Sugar Company, Limited Wallaceburg
(No refining done at Wallaceburg in 1946)

MANITOBA

(2) The Manitoba Sugar Company, Limited (Fort Garry) Winnipeg

ALBERTA

(2) Canadian Sugar Factories, Limited Raymond
(2) Canadian Sugar Factories, Limited Picture Butte

BRITISH COLUMBIA

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

(1) Made cane sugar only.

(2) Made beet sugar only.



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