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THE SUGAR REFINING INDUSTRY  
1950

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## NOTICE

The Industry and Merchandising Division of the Bureau of Statistics collects and compiles figures on (a) the primary industries in Canada—mining, forestry and fishing; (b) manufacturing; (c) construction, and (d) merchandising and services.

For the purpose of annual compilation and publication, the manufacturing industries have been classified into major groups, prefaced by two reports of a general nature, as follows:

- I Summary Report on Manufacturing Industries
- II Manufacturing Industries by Geographical Distribution
- III Foods and Beverages
- IV Tobacco and Tobacco Products
- V Rubber Products
- VI Leather Products
- VII Miscellaneous Manufactures
- VIII Textiles
- IX Wood and Paper Products
- X Printing Trades
- XI Operations in the Woods
- XII Iron and Steel Products
- XIII Transportation Equipment
- XIV Non-ferrous Metal Products
- XV Electrical Apparatus
- XVI Non-metallic Mineral Products
- XVII Coke and Gas—Petroleum Refining
- XVIII Chemicals and Allied Products

The present report belongs in Group III, Foods and Beverages. It is punched to permit of filing in a ring binder along with others of the group. The reports in this group are:

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# THE SUGAR REFINING INDUSTRY

1950

The output of the sugar refining industry in 1950 was 142,038,008 pounds greater than in 1949. The production of sugar of all kinds amounted to 1,527,949,744 pounds (1,227,764,354 pounds made from cane and 300,185,390 pounds from beets). The production of cane sugar increased by 66,706,610 pounds and that of beet sugar increased by 75,331,398 pounds. Granulated sugar comprises over 86 per cent of total sugar produced.

The production of beetroot sugar which is dependent upon weather conditions fluctuates widely from year to year. While the peak production of 300,185,390 pounds was reached in 1950, preceded by 224,853,992 pounds in 1949, the previous maximum production appeared in 1941 when 215,879,271 pounds were manufactured. Since 1937, the lowest output was in 1943 when the production dropped to 129,268,010 pounds, due mainly to the effect of adverse weather on the sugar beet crop. The percentage of beet sugar to the total sugar manufactured was 19.6 per cent in 1950 while the highest ratio since the inception of the annual Industrial Census was in 1942 when the relationship rose to 23.6 per cent. During the war years, when the consumption of sugar was under control, the percentage of beetroot sugar to the total production showed marked increases over previous years, a situation which has been slightly reversed in post-war years.

The price of refined sugar at the factory, increased during 1950. Beet sugar increased from 9.00 cents per pound in 1949 to 10.28 in 1950, and cane sugar from 8.01 to 8.90 cents per pound. The value of sugar of all kinds rose from 8.17 to 9.17 cents per pound.

The refineries are located as follows: Nova Scotia 1, New Brunswick 1, Quebec 3, Ontario 2, Manitoba 1, Alberta 3 and British Columbia 1. These refineries in 1950 reported a gross value of production of \$144,872,567; they employed 3,919 persons who received \$9,535,834 in salaries and wages, and paid out \$109,713,103 for raw materials. Since 1943 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 table following. In order that there may be no disclosure of statistical information of individual plants, the statistics are given for the Dominion only.

TABLE 1. Principal Statistics of the Sugar Refining Industry, Representative Years, 1917-1950

Year	Establishments	Capital Invested	Employment	Salaries and Wages	Cost of Materials Used	Gross <sup>1</sup> 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	36,007,206
1936.....	10	33,199,993	2,559	3,413,698	27,924,998	40,405,377
1938.....	10	36,347,866	2,316	3,315,633	28,838,685	41,392,096
1939.....	10	40,511,684	2,399	3,467,367	33,728,967	49,896,763
1940.....	11	42,966,073	2,536	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	2,590	4,576,060	48,033,547	63,874,868
1945.....	11	2	2,713	4,860,264	46,518,380	61,621,443
1946.....	11	2	2,633	5,010,789	45,900,913	61,181,621
1947.....	11	2	3,003	6,309,481	63,883,259	80,194,369
1948.....	11	2	3,267	7,662,318	88,031,106	113,510,547
1949.....	11	2	3,587	8,842,763	90,172,181	116,767,430
1950.....	12	2	3,919	9,535,834	109,713,103	144,872,567

1. Selling value at the factory. Statistics since 1935 do not include excise taxes.
2. Not collected since 1943.

TABLE 2. Comparison of Principal Statistics

Items		1950	1949	+ Increase - Decrease
Refineries reporting.....	No.	12	11	+ 1
Employees on salaries:				
Total.....	No.	538	517	+ 21
Male.....	No.	411	399	+ 12
Female.....	No.	127	118	+ 9
Total salaries.....	\$	2,062,131	1,883,882	+ 178,249
Employees on wages — (monthly average):				
Total.....	No.	3,381	3,070	+ 311
Male.....	No.	3,101	2,783	+ 318
Female.....	No.	280	287	- 7
Total wages.....	\$	7,473,703	6,958,901	+ 514,802
Cost of fuel and electricity.....	\$	3,219,676	2,891,954	+ 327,722
Cost of materials used.....	\$	109,713,103	90,172,181	+ 19,540,922
Gross value of production.....	\$	144,872,567	116,767,430	+ 28,105,137
Value added by manufacture <sup>1</sup> .....	\$	31,145,788	23,703,295	+ 7,442,493

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.

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

## 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 1949 and 1950. The quantity of sugars produced in Canadian refineries during 1950 was greater than that of 1949 by

142,038,008 pounds and the selling value by \$26,878,628. The quantity of beet sugar increased by 75,331,398 pounds and cane sugar increased by 66,706,610 pounds, making the increase as stated above. Molasses increased in both quantity and value.

TABLE 3. Sugar and By-Products

Products	1950		1949	
	Quantity	Selling Value at Factory	Quantity	Selling Value at Factory
Sugar:				
Made from cane.....	Lb. 1,227,764,354	109,271,560	1,161,057,744	93,006,124
Made from beets.....	" 300,185,390	30,845,292	224,853,992	20,232,100
Total sugar produced.....	" 1,527,949,744	140,116,852	1,385,911,736	113,238,224
Granulated.....	" 1,323,009,691	121,554,207	1,181,963,023	96,680,698
Yellow or Brown.....	" 131,106,475	11,036,465	128,476,821	9,682,233
Pulverized (no starch added).....	" 4,278,075	409,814	5,307,525	459,597
Icing (starch added).....	" 58,046,413	5,797,073	58,153,011	5,191,265
Loaf.....	" 11,509,090	1,319,293	12,011,356	1,224,431
Syrups (not including molasses).....	" 10,042,000	928,687	7,094,000	631,287
Molasses:				
Made from cane.....	" 19,626,000	306,776	21,678,000	263,527
Made from beet.....	" 75,168,000	1,046,849	69,154,000	899,731
Total molasses.....	" 94,794,000	1,353,625	90,832,000	1,163,258
Beet pulp, wet and dried.....	Tons 145,417	2,473,403	139,473	1,734,661
Other products.....	—	—	—	—
Total value of products.....	—	144,872,567	—	116,767,430

1. This does not include excise taxes.



## 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 1950. Acreage of sugar beets harvested in 1950 was 17,550 acres more than 1949, the total yield was 257,119 tons more and the total value of the crop increased by \$6,220,614.

TABLE 4. Area, Yield and Value of Sugar Beets in Canada and Production of Refined Beetroot Sugar Compared, 1918 to 1950

Year	Acres Harvested	Total Yield	Yield per Acre	Total Value	Average Price Per Ton	Refined Beetroot Sugar			
						Total Quantity	Total Value	Average Value per lb.	Percentage to Total Sugar
	No.	Tons	Tons	\$	\$	lb.	\$	Cents	
1918	18,000 <sup>1</sup>	204,000	11.25	2,593,715	12.71	50,092,835	4,358,077	8.70	7.7
1919	18,600 <sup>1</sup>	180,000	9.50	2,630,027	14.61	37,839,271	3,924,411	10.70	3.7
1920	34,491 <sup>1</sup>	343,000	9.94	5,307,243	15.47	89,280,719	12,856,424	14.40	11.4
1921	25,535 <sup>1</sup>	199,334	7.80	1,974,384	9.90	52,862,377	3,554,203	6.70	6.7
1922	14,955 <sup>1</sup>	127,807	6.55	966,521	7.56	29,911,770	1,645,885	5.50	2.6
1923	17,941 <sup>1</sup>	159,200	8.87	1,922,668	12.08	39,423,160	3,745,200	9.50	4.7
1924	31,111 <sup>1</sup>	295,177	9.50	1,704,791	5.78	85,770,709	6,192,645	7.30	9.8
1925	34,803 <sup>1</sup>	370,047	10.63	2,688,302	7.27	72,819,919	5,206,624	7.15	6.2
1926	30,073 <sup>1</sup>	267,754	8.90	2,286,761	8.54	70,388,105	4,269,076	6.06	6.2
1927	25,961 <sup>1</sup>	206,713	7.96	2,012,134	9.73	60,969,131	3,719,117	6.10	6.2
1928	34,323 <sup>1</sup>	244,930	7.14	2,041,465	8.33	64,653,348	3,340,571	5.17	7.0
1929	32,556 <sup>1</sup>	235,465	7.23	2,080,996	8.84	69,399,213	3,335,344	4.81	7.4
1930	40,532 <sup>1</sup>	397,576	9.81	3,278,625	8.25	94,624,701	4,529,944	4.79	10.0
1931	43,337 <sup>1</sup>	435,992	10.06	3,190,198	7.32	107,139,129	4,794,551	4.48	10.7
1932	44,817 <sup>1</sup>	505,671	11.28	3,113,942	6.16	132,016,859	5,789,205	4.38	14.0
1933	43,807 <sup>1</sup>	442,391	10.10	2,790,928	6.31	131,392,501	5,713,181	4.35	15.1
1934	38,495 <sup>1</sup>	412,672	10.72	2,599,982	6.30	114,002,950	4,714,824	4.14	12.8
1935	51,985 <sup>1</sup>	459,223	8.83	2,881,098	6.27	119,857,668	4,617,733	3.85	12.4
1936	50,444	555,969	11.02	3,510,922	6.31	156,066,242	6,103,264	3.91	14.3
1937	43,758	422,152	9.65	2,825,006	8.69	120,440,235	5,230,971	4.34	11.7
1938	45,194	498,102	11.02	3,403,635	6.83	143,013,847	6,001,380	4.20	13.7
1939	57,316	586,444	10.23	4,417,372	7.53	169,320,343	8,063,332	4.76	14.6
1940	77,548	825,344	10.64	6,022,670	7.30	213,602,511	10,853,665	5.08	18.5
1941	63,925	708,616	11.08	5,781,151	8.16	215,879,271	11,639,825	5.39	17.6
1942	62,381	701,884	11.25	6,434,517	9.17	189,066,870	11,349,746	6.00	23.6
1943	52,693	474,378	9.00	4,592,240	9.68	129,268,010	8,728,995	6.75	14.8
1944	55,020	564,927	10.27	5,598,363	9.91	165,318,840	11,281,052	6.82	16.2
1945	59,273	618,790	10.44	6,192,942	10.01	163,837,790	11,198,989	6.84	16.7
1946	66,869	735,849	11.00	8,030,859	10.91	205,779,800	14,022,621	6.81	21.4
1947	58,832	605,741	10.30	8,517,159	14.06	156,262,700	13,208,824	8.45	14.4
1948	60,065	629,206	10.48	9,286,676	14.76	175,641,250	15,663,858	8.92	12.9
1949	84,100	858,739	10.21	11,913,620	13.87	224,853,992	20,292,100	9.00	16.2
1950	101,650	1,115,858	10.98	18,134,234	16.25	300,185,390	30,845,292	10.28	19.6

1. This is the number of acres seeded, which is slightly higher than the harvested acreage.

TABLE 5. Exports - Sugar, Molasses and Beet Pulp, 1944-1950

Product	Quantity	Value
		\$
Molasses and syrups, n.o.p.:		
1944	Gal	1,067,701
1945	"	876,015
1946	"	1,639,397
1947	"	849,182
1948	"	1,180,835
1949	"	1,504,692
1950	"	2,010,272
Sugar, n.o.p.:		
1944	Cwt.	163,952
1945	"	447,805
1946	"	20,982
1947	"	22,960
1948	"	10,744
1949	"	16,899
1950	"	210,040
Beet pulp:		
1944	Cwt.	72,905
1945	"	49,789
1946	"	88,545
1947	"	78,449
1948	"	119,556
1949	"	234,284
1950	"	247,967

TABLE 6. Imports of Sugar, Molasses, etc., 1944-1950.

Product	Quantity	Value
		\$
Molasses of cane testing under 35° but not less than 20°:		
1944 .....	Gal. 25,574	6,658
1945 .....	" 134,214	41,675
1946 .....	" 5,940,384	997,471
1947 .....	" 9,557,049	1,684,616
1948 .....	" 9,814,229	3,194,970
1949 .....	" 4,538,375	675,970
1950 .....	" 6,415,768	1,279,225
Molasses of cane, imported direct, testing not less than 35° nor more than 56°:		
1944 .....	Gal. 29,042	17,105
1945 .....	" 274,791	115,217
1946 .....	" 700,988	318,695
1947 .....	" 188,796	105,309
1948 .....	" 85,276	54,618
1949 .....	" —	—
1950 .....	" 4,908	2,667
Molasses of cane the produce of any country entitled to the British Preferential Tariff, imported direct, testing not more than 56°:		
1944 .....	Gal. 5,625,763	2,195,943
1945 .....	" 4,613,815	1,787,653
1946 .....	" 4,488,167	2,143,147
1947 .....	" 5,258,933	3,229,503
1948 .....	" 4,891,031	3,842,198
1949 .....	" 9,689,230	2,420,438
1950 .....	" 9,422,286	3,032,698
Syrups and molasses of all kinds, the product of the sugar cane or beet, n.o.p. and all imitations and substitutes:		
1944 .....	Cwt. 10,641	68,085
1945 .....	" 10,685	68,769
1946 .....	" 10,175	80,029
1947 .....	" 7,851	47,480
1948 .....	" 6,691	53,176
1949 .....	" 9,249	58,432
1950 .....	" 8,972	71,627
Sugar, raw, when imported or purchased in bond in Canada for refining purposes only:		
1944 .....	Cwt. 8,916,586	28,709,555
1945 .....	" 8,376,764	28,482,362
1946 .....	" 8,616,972	31,790,956
1947 .....	" 9,962,365	46,408,917
1948 .....	" 12,277,576	62,116,276
1949 .....	" 12,360,630	65,624,413
1950 .....	" 12,655,393	76,409,211
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°:		
1944 .....	Cwt. 141,822	519,955
1945 .....	" 113,858	467,997
1946 .....	" 155,740	624,685
1947 .....	" 180,723	990,520
1948 .....	" 161,747	945,384
1949 .....	" 84,938	501,528
1950 .....	" 126,499	799,078

TABLE 7. Wholesale Prices of Sugar at Montreal for Specified Months  
(Compiled by the Prices Section)

	Jan.	Apr.	July	Oct.
—				
Sugar granulated, standard, per cwt., 1950 .....	8.22	8.22	8.38	9.50
1949 .....	7.89	7.89	7.89	7.89
Sugar, yellow, No. 2, per cwt., 1950 .....	7.84	7.64	7.98	9.12
1949 .....	7.51	7.51	7.51	7.51

## Materials Used

The cost of materials used in the industry during 1950 as shown in Table 6, amounted to \$109,713,103. This is an increase from the previous year of \$19,540,922. Raw materials, consisting of raw cane and sugar beets, constitute over 93 per cent of the total cost, other materials about 2 per cent, and

containers of all kinds nearly 5 per cent. The average cost price of raw cane sugar laid down at the factory was \$5.99 per hundred-weight in 1949 and \$6.69 per hundred-weight in 1950. The cost at the factory of sugar beets was \$13.87 per ton in 1949 and \$16.25 in 1950.

TABLE 8. Materials Used

Kind of Materials	1950		1949	
	Quantity	Cost Value at the Refinery	Quantity	Cost Value at the Refinery
Raw cane sugar .....	Lb. 1,265,026,777	84,576,107	1,201,640,183	71,930,385
Sugar beets .....	Tons 1,115,858	18,134,234	858,739	11,913,620
Cornstarch .....	Lb. 2,083,116	159,170	1,916,900	141,091
Boneblack .....	" 2,420,826	228,602	2,745,079	304,476
Vegetable char .....	" —	—	16,140	2,644
Infusorial earth .....	" 5,977,750	205,856	5,741,397	187,508
Lime .....	" 2,101,115	18,632	1,792,313	16,050
Limestone .....	Tons 63,119	250,565	47,234	160,950
Sulphur .....	Lb. 427,057	20,919	305,143	11,253
Sulphuric acid .....	" 762,223	11,016	759,755	11,168
Hydrochloric and muriatic acid .....	" 345,507	15,111	346,129	12,413
Phosphoric acid .....	" 112,750	11,662	107,497	10,659
Soda ash .....	" 326,434	9,193	385,850	10,662
Filtering materials, n.e.s. ....	—	60,429	—	62,367
Other chemical materials .....	—	32,491	—	13,471
Containers (boxes, bags, etc.) .....	—	5,298,063	—	4,963,311
All other materials and supplies .....	—	681,053	—	420,153
<b>Total cost of materials .....</b>	<b>—</b>	<b>109,713,103</b>	<b>—</b>	<b>90,172,181</b>

## Employment Statistics

Employment statistics are given in Tables 9 and 10. Wage-earners in 1950 numbered 3,101 males and 280 females, with a payroll of \$7,473,703 while salaried employees numbered 411 males and 127 females, with salaries totalling \$2,062,131. Compared with 1949 there was an increase of

332 in the number of persons employed and an increase of \$693,051 in the salaries and wages paid. The maximum employment of wage-earners was reached in October with a total of 5,111 and a minimum in March with a total of 2,404.

TABLE 9. Employment for Canada by Number, Sex and Remuneration

Year	Salaried Employees			Wage-earners (Monthly Averages)			Total Employees Salaries and Wages		
	Male	Female	Total Salaries	Male	Female	Total Wages	Male	Female	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	1,298,052	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
1947 .....	302	106	1,318,141	2,292	303	4,991,340	2,594	409	6,309,481
1948 .....	310	101	1,500,930	2,541	315	6,161,388	2,851	416	7,662,318
1949 .....	399	118	1,883,882	2,783	287	6,958,901	3,182	405	8,842,783
1950 .....	411	127	2,062,131	3,101	280	7,473,703	3,512	407	9,535,834





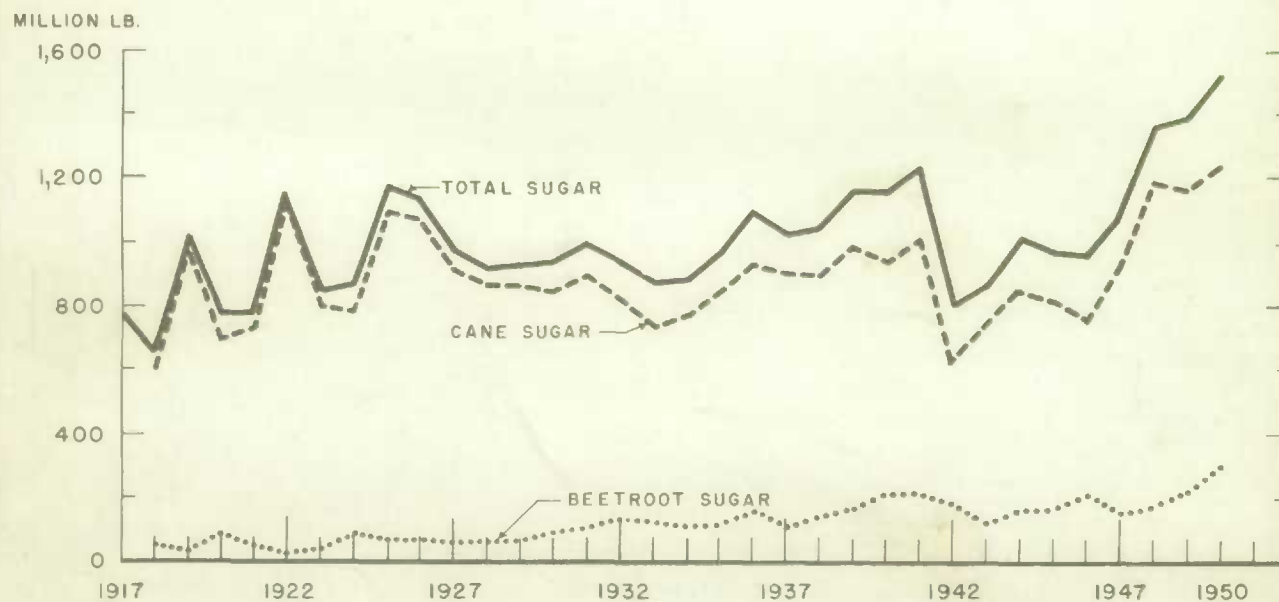
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## FOODS AND BEVERAGES

TABLE 10. Number of Wage-earners Employed by Months and Sex

Months	1950		1949		Months	1950		1949	
	Male	Female	Male	Female		Male	Female	Male	Female
January .....	2,451	258	2,189	301	August .....	2,704	286	2,545	283
February .....	2,275	261	2,512	285	September .....	3,367	314	3,232	312
March .....	2,145	259	2,451	268	October .....	4,777	334	4,194	307
April .....	2,472	249	2,226	269	November .....	4,482	314	4,109	301
May .....	2,830	267	2,417	293	December .....	3,290	260	2,477	204
June .....	2,849	263	2,611	309	Monthly Average .....	3,101	280	2,783	287
July .....	2,590	269	2,421	299					

## SUGAR PRODUCTION, 1917 - 1950



## List of Sugar Refineries

Name of Firm	Plant Address
<b>Nova Scotia:</b> Acadia Sugar Refining Company, Limited ..... (Operations pooled with "Atlantic Sugar Refineries, Limited" since 1943)	Dartmouth
<b>New Brunswick:</b> Atlantic Sugar Refineries, Limited <sup>1</sup> .....	Saint John
<b>Quebec:</b> Canada & Dominion Sugar Company, Limited <sup>1</sup> ..... St. Lawrence Sugar Refineries, Limited <sup>1</sup> ..... Quebec Sugar Refinery <sup>2</sup> .....	1410 Montmorency St., Montreal 4026 Notre Dame St. E., Montreal St. Hilaire
<b>Ontario:</b> Canada & Dominion Sugar Company, Limited <sup>2</sup> ..... Canada & Dominion Sugar Company, Limited <sup>3</sup> .....	Chatham Wallaceburg
<b>Manitoba:</b> The Manitoba Sugar Company, Limited <sup>2</sup> .....	(Fort Garry) Winnipeg
<b>Alberta:</b> Canadian Sugar Factories, Limited <sup>2</sup> ..... Canadian Sugar Factories, Limited <sup>2</sup> ..... Canadian Sugar Factories, Limited <sup>2</sup> .....	Raymond Picture Butte Taber
<b>British Columbia:</b> The British Columbia Sugar Refining Company Limited <sup>1</sup> .....	Rogers Street, Vancouver

1. Made cane sugar only.

2. Made beet sugar only.

3. Made both cane and beet sugar.