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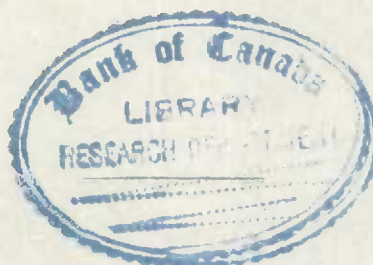
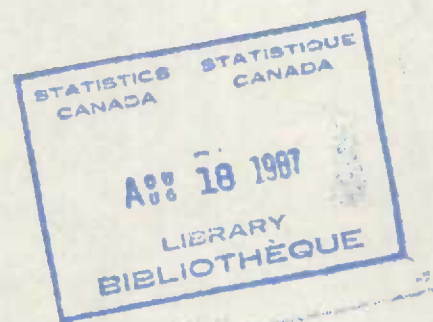
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CANADA
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
GENERAL MANUFACTURES BRANCH

REPORT
ON THE
SUGAR INDUSTRY
IN
CANADA
1943



OTTAWA
1944

Price 25 cents

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DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

GENERAL MANUFACTURES BRANCH

OTTAWA - CANADA

Dominion Statistician:	S. A. Cudmore, M.A.(Oxon.), F.S.S., F.R.S.C.
Chief, General Manufactures Branch:	A. Cohen, B. Com.

THE SUGAR REFINING INDUSTRY IN CANADA, 1943

The output of the sugar refining industry increased by 69,437,805 pounds during 1943. The production of sugar of all kinds amounted to 870,557,020 pounds (741,289,010 pounds made from cane and 129,268,010 pounds from beets). The production of cane sugar increased by 129,236,665 pounds and that of beet sugar decreased by 59,798,860 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. 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 14.3.

Prices of refined sugar at the factory were slightly higher in 1943 than in the previous year. Sugar of all kinds rose from 5.50 cents per pound to 5.72 cents. Granulated sugar rose from 5.52 cents to 5.75 cents, yellow sugar from 4.94 cents to 5.10 cents, while icing sugar rose from 6.23 cents to 6.40 cents.

The refineries are located as follows: Nova Scotia 1, New Brunswick 1, Quebec 2, Ontario 2, Manitoba 1, Alberta 2 and British Columbia 1. These refineries in 1943 reported a capital investment of \$44,144,876, a gross value of production of \$51,239,749, they employed 2,274 persons who received \$4,068,473 in salaries and wages, and paid out \$38,618,832 for raw materials. During 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, capital invested, 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, 1943

Table 1. - Principal Statistics of the Sugar Refining Industry,
Representative Years, 1917 - 1943.

Year	Refineries Reporting No.	Capital Invested \$	Em- ployees No.	Salaries and Wages \$	Cost of Materials Used \$	Gross Value x of Production \$
1917 ...	8	31,818,133	2,527	2,324,828	53,179,911	61,429,787
1919 ...	8	38,725,542	3,491	4,177,894	86,308,204	102,630,086
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	2,030	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	36,547,866	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	2,558	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	38,618,832	51,239,749

x Selling value at the factory. Statistics since 1933 do not include excise taxes.

Table 2. - Comparison of Principal Statistics

Items		1 9 4 2	1 9 4 3	+ Increase - Decrease
Refineries reporting	No.	11	10	- 1
Capital invested.....	\$	45,232,672	44,144,876	- 1,087,796
Employees on salaries -				
Total	No.	459	424	- 35
Male	No.	353	305	- 48
Female	No.	106	119	+ 13
Total Salaries	\$	1,162,006	1,185,276	+ 23,270
Employees on wages -(monthly average)				
Total	No.	1,367	1,850	- 17
Male	No.	1,701	1,537	- 164
Female	No.	166	313	+ 147
Total wages	\$	2,610,425	2,883,197	+ 272,772
Cost of fuel and electricity	\$	1,225,955	1,191,889	- 34,066
Cost of materials used	\$	33,283,971	38,618,832	+ 5,334,861
Gross value of production ...	\$	45,969,711	51,239,749	+ 5,270,038
Value added by manufacture x	\$	11,459,785	11,429,028	- 30,757

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 expense items such as interest, rent, depreciation, taxes, insurance, advertising, etc.

THE SUGAR REFINING INDUSTRY IN CANADA, 1943.

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 1942 and 1943. The quantity of sugars produced in Canadian refineries during 1943 was greater than that of 1942 by 69,437,805 pounds and the selling value by \$5,799,590. The quantity of beet sugar decreased by 59,798,860 pounds but cane sugar increased by 129,236,665 pounds, making the increase as stated above. Molasses decreased in both quantity and value.

Table 3. - Sugar and By-Products

Products	1 9 4 2			1 9 4 3		
	Quantity	Selling Value at Factory 1/		Quantity	Selling Value at Factory 1/	
	Pounds	\$		Pounds	\$	
Sugar - Made from cane	612,052,345	32,680,904		741,239,010	41,101,245	
Made from beets	189,066,870	11,349,746		129,268,010	8,728,995	
Total	801,119,215	44,030,650		870,557,020	49,830,240	
Granulated	686,520,185	37,913,185		754,756,906	43,422,107	
Yellow or Brown	82,639,909	4,085,518		84,124,579	4,290,186	
Pulverized or icing	19,384,615	1,207,384		20,251,130	1,295,945	
Fruit	2,189,263	127,923		2,035,555	126,275	
Loaf	10,385,243	696,140		9,388,850	695,727	
Syrups (not including molasses)	8,827,805	316,316		9,412,517	376,800	
Molasses - Made from cane	11,522,318	168,283		15,612,913	248,660	
Made from beet	53,237,849	695,549		37,537,480	476,173	
Total	64,760,167	863,832		53,150,393	724,833	
Beet pulp, wet and dried	204,694,000	602,742		169,242,000	307,376	
Other products	-	156,171		-	-	
TOTAL VALUE OF PRODUCTS		45,969,711			51,239,749	

1/ This does not include excise taxes.

THE SUGAR REFINING INDUSTRY IN CANADA, 1943

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 1943. Acreage of sugar beets harvested decreased by 9,688 acres, the total yield by 227,506 tons and the total value of the crop by \$1,842,277.

Table 4. - Area, Yield and Value of Sugar Beets in Canada and Production of Refined Beetroot Sugar Compared, 1918 to 1943.

Year	Acres	Total	Yield	Total	Average	Production and Value (at the		
	Grown	Yield	Per	Value	Price	refinery) of refined		
	No.	Tons	Acre	\$	Per Ton	Lb.	\$	\$ cts.
			Tons		\$ 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	2,633,302	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	8.85	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	493,102	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	169,320,345	8,063,332	4.78
1940	x 77,548	825,344	10.64	6,022,670	7.30	213,602,511	10,853,665	5.05
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	701,384	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

x This is the number of acres harvested. The acreage seeded is slightly higher than these figures, being 64,768 acres in 1942 and 57,483 acres in 1943.

THE SUGAR REFINING INDUSTRY IN CANADA, 1943

Table 5. - Wholesale Prices of Sugar at Montreal and Vancouver for Specified Months, 1942 and 1943

(Compiled by the Prices Branch)

	Sugar at Montreal				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	
	1942	1943	1942	1943	1942	1943	1942	1943
	\$	\$	\$	\$	\$	\$	\$	\$
January ...	6.89	6.89	6.61	6.63	6.89	6.89	6.51	6.51
April	6.89	6.89	6.63	6.63	6.89	6.89	6.51	6.51
July	6.89	6.89	6.63	6.63	6.89	6.89	6.51	6.51
October ...	6.89	6.89	6.63	6.63	6.89	6.89	6.51	6.51

Materials Used

The cost of materials used in the industry during 1943, as shown in Table 6, amounted to \$38,618,832. This is an increase from the previous year of \$5,334,861. 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 \$3.87 per hundredweight in 1942 and \$4.02 per hundredweight in 1943. The cost at the factory of sugar beets was \$9.17 per ton in 1942 and \$9.68 in 1943.

Table 6. - Materials Used

Kinds of Materials	Unit of Measure	1 9 4 2		1 9 4 3	
		Quantity	Cost Value at the Refinery	Quantity	Cost Value at the Refinery
Raw cane sugar	Pound	629,893,608	24,408,760	773,915,653	31,137,050
Sugar beets	Ton	701,884	6,434,517	474,378	4,592,240
Cornstarch	Pound	678,542	39,245	723,258	41,663
Boneblack	"	1,542,014	73,776	1,822,220	148,440
Vegetable char	"	251,653	29,452	196,476	23,800
Infusorial earth ..	"	3,007,180	75,295	3,451,142	89,075
Lime	"	565,472	3,488	8,107,126	47,076
Limestone	Ton	36,553	92,981	20,817	62,538
Sulphur	Pound	283,780	7,411	208,768	4,913
Acids (sulphuric, hydrochloric, muriatic and phosphoric)	"	853,902	25,296	1,010,773	31,924
Soda ash	"	378,112	8,762	347,958	8,257
Filtering materials, n.e.s.	-	-	13,462	-	14,785
Other chemical materials	-	-	68,558	-	9,497
Containers (boxes, bags, etc.)	-	-	1,810,252	-	2,099,425
All other materials and supplies	-	-	192,716	-	508,149
TOTAL COST OF MATERIALS USED			33,283,971		38,618,832

THE SUGAR REFINING INDUSTRY IN CANADA, 1943

Capital Invested

Table 7. - Capital Invested in the Sugar Industry

Items of Capital	1 9 4 2	1 9 4 3
	\$	\$
Fixed Capital -		
Present value of land, buildings, fixtures, machinery, tools, etc.	22,127,564	21,727,170
Working Capital -		
Inventory value of materials on hand, stocks in process, fuel and miscellaneous supplies on hand	4,878,429	8,597,765
Inventory value of finished products on hand	9,098,988	7,768,730
Operating capital (cash, bills and accounts receivable, prepaid expenses, etc.)	9,127,691	6,051,211
TOTAL CAPITAL INVESTED	45,232,672	44,144,876

Employment Statistics

Employment statistics are given in Tables 8, 9 and 10. Wage-earners in 1945 numbered 1,537 males and 313 females, with a payroll of \$2,883,197 while salaried employees numbered 305 males and 119 females, with salaries totalling \$1,185,276. Compared with 1942 there was a decrease of 52 in the number of persons employed and an increase of \$296,042 in the salaries and wages paid. The maximum employment of wage-earners was reached in October with a total of 2,744 and the minimum in February with a total of 1,262.

Table 8. - Employment for Canada by Number, Sex and Remuneration.

Year	Salaried Employees			Wage-earners (Monthly Averages)			Total Employees Salaries and Wages		
	Total		Salaries	Total		Wages	Total		Salaries and Wages
	Male	Female		Male	Female		Male	Female	
	No.	No.	\$	No.	No.	\$	No.	No.	\$
1936	345	63	1,169,529	2,064	37	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	30	1,137,767	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	3,623,601
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
1945	305	119	1,185,276	1,537	313	2,883,197	1,842	432	4,068,473

THE SUGAR REFINING INDUSTRY IN CANADA, 1943.

Table 9. - Number of Wage-earners Employed by Months and Sex.

Months	1 9 4 2		1 9 4 3	
	Male	Female	Male	Female
January	1,750	113	1,488	176
February	1,527	162	1,060	202
March	1,466	139	1,138	226
April	1,499	115	1,168	244
May	1,522	148	1,236	263
June	1,203	116	1,349	285
July	1,315	150	1,450	306
August	1,291	154	1,417	332
September	1,865	203	2,141	452
October	2,376	227	2,268	476
November	2,419	238	2,238	442
December	2,162	217	1,470	367
Monthly Average	1,701	166	1,537	313

Table 10. - 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	1 9 4 2		1 9 4 3	
	Male	Female	Male	Female
30 hours or less	152	16	313	49
31 - 43 hours	326	69	371	125
44 hours	70	55	120	39
45 - 47 hours	79	11	85	21
48 hours	269	33	282	117
49 - 50 hours	97	14	63	12
51 - 54 hours	132	27	222	43
55 hours	47	6	165	8
56 - 64 hours	829	24	637	46
65 hours and over	894	17	365	13
AVERAGE HOURS PER WEEK	56.0	46.1	50.3	44.6
AVERAGE WEEKLY EARNINGS	\$31.67	\$16.90	\$30.27	\$20.10

THE SUGAR REFINING INDUSTRY IN CANADA, 1943.

Table 11. - Power Equipment

Classes of Power	1 9 4 2		1 9 4 3	
	Number of Units	Manufacturers' Rating of Horse-Power Capacity	Number of Units	Manufacturers' Rating of Horse-Power Capacity
Steam engines and turbines -				
In use	38	16,468	25	12,401
Idle	3	790	10	2,787
Gasoline, gas and oil engines -				
In use	31	816	32	836
Idle	3	45	3	45
Electric motors operated by purchased power -				
In use	691	8,477	671	7,154
Idle	65	1,842	64	2,204
TOTAL POWER AVAILABLE FOR MANUFACTURING	831	28,438	805	25,427
Electric motors operated by power generated by the establishment - In use	1,762	20,672	1,584	17,297
Idle	117	1,410	156	2,005
Stationary boilers - In use	67	29,742	45	18,062
Idle	2	650	12	4,000

Table 12. - Consumption of Fuel and Electricity

Kinds of Fuel	Unit of Measure	1 9 4 2		1 9 4 3	
		Quantity	Cost Value	Quantity	Cost Value
			\$		\$
Bituminous Coal, Canadian	Ton	54,949	278,613	114,348	748,452
" " Imported	"	59,185	400,815	25,781	179,105
Lignite Coal	"	62,831	142,075	61,498	135,148
Coke	"	3,506	50,575	2,091	28,552
Gasoline (x)	Imp. Gal.	20,762	6,480	18,343	5,506
Fuel Oil	" "	4,492,584	253,690	506,765	26,809
Kerosene or coal oil	" "	1,580	403	2,444	590
Gas (Manufactured	M Cu.ft.	1,617	1,705	1,967	2,058
(Natural	" " "	2,914	1,457	1,649	1,177
TOTAL COST OF FUEL	-		1,135,813		1,127,397
Electricity purchased (including service charges) Kw.H.		11,325,356	90,142	7,266,986	64,492
TOTAL COST OF FUEL AND ELECTRICITY			1,225,955		1,191,889

(x) Includes gasoline used in cars and trucks.

THE SUGAR REFINING INDUSTRY IN CANADA, 1943.

List of Sugar Refineries

NOVA SCOTIA

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

NEW BRUNSWICK

(1) Atlantic Sugar Refineries, Limited, Saint John

QUEBEC

(1) Canada & Dominion Sugar Company, Ltd., 1410 Montmorency St., Montreal.
(1) St. Lawrence Sugar Refineries, Ltd., 4026 Notre Dame St. E.,
Montreal.

(Only operated in January, 1943 and pooled operations with "Canada & Dominion Sugar Co. Ltd.," for balance of year).

ONTARIO

(3) Canada & Dominion Sugar Co., Ltd., Chatham.
Canada & Dominion Sugar Co., Ltd., Wallaceburg.
(No refining done at Chatham in 1943. All manufacturing done at
Wallaceburg).

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.
(3) Made both cane and beet sugar.

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