

32-222 c7

Published by Authority of the Hon. James A. MacKINNON, M.P.,
Minister of Trade and Commerce.

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

REPORT
ON THE
SUGAR INDUSTRY
IN
CANADA
1942

STATISTICS STATISTIQUE
CANADA CANADA

AUG 16 2010
AOUT

LIBRARY
BIBLIOTHÈQUE



OTTAWA
1943

Price 25 cents

CANADA

DEPARTMENT OF TRADE AND COMMERCE

STATISTICS BRANCH

CHARTER OF TRADES

ANNUAL REPORT FOR 1922

REPORT

ON THE

STATISTICS

IN

CANADA

1922

OTTAWA
PRINTED BY THE
GOVERNMENT OF CANADA
1923

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, 1942

The output of the sugar refining industry decreased by 425,633,853 pounds during 1942. The production of sugar of all kinds amounted to 801,119,215 pounds (612,052,345 pounds made from cane and 189,066,870 pounds from beets). The production of cane sugar decreased by 398,821,452 pounds and that of beet sugar by 26,812,401 pounds. Granulated sugar comprises over 85 per cent of the total sugar produced.

Although the quantity of beet sugar produced in 1942 was smaller than in 1941, the percentage of beet sugar to the total produced was 23.6, the highest since the inception of the annual census of manufactures in 1917. The percentage of beet sugar in 1941 was 17.6 and in 1940 18.5.

Prices of refined sugar at the factory were slightly higher in 1942 than in the previous year. Sugar of all kinds rose from 4.95 cents per pound to 5.5 cents. Granulated sugar rose from 4.98 cents to 5.52 cents, yellow sugar from 4.44 cents to 4.94 cents, while icing sugar rose from 5.56 cents to 6.23 cents.

The refineries operating in 1942 were located as follows: Nova Scotia 1, New Brunswick 1, Quebec 2, Ontario 3, Manitoba 1, Alberta 2 and British Columbia 1. These eleven refineries in 1942 reported a capital investment of \$45,232,672, a gross value of production of \$45,969,711, they employed 2,326 persons who received \$3,772,431 in salaries and wages, and paid out \$33,283,971 for raw materials.

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, 1942.

Table 1. - Principal Statistics of the Sugar Refining Industry,
Representative Years, 1917 - 1942.

Year	Refineries Reporting	Capital Invested	Em- ployees	Salaries and Wages	Cost of Materials Used	Gross value x of Production
	No.	\$	No.	\$	\$	\$
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	2,080	2,919,662	24,099,994	36,007,208
1935 ...	8	33,017,874	2,134	3,086,691	25,137,568	36,597,997
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

* 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 1	+ Increase - Decrease
Refineries reporting	No.	11	11	none
Capital invested	\$	45,232,672	43,915,168	+ 1,317,504
Employees on salaries -				
Total	No.	459	476	- 17
Male	No.	353	378	- 25
Female	No.	106	98	+ 8
Total salaries	\$	1,162,006	1,187,467	- 25,461
Employees on wages -(monthly average)				
Total	No.	1,867	2,166	- 299
Male	No.	1,701	2,043	- 342
Female	No.	166	123	+ 43
Total wages	\$	2,610,425	2,647,172	- 36,747
Cost of fuel and electricity	\$	1,225,955	1,487,848	- 261,893
Cost of materials used	\$	33,283,971	46,067,190	- 12,783,219
Gross value of production ...	\$	45,969,711	62,402,709	- 16,432,998
Value added by manufacture x	\$	11,459,785	14,847,671	- 3,387,886

* 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, 1942

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 1941 and 1942. The quantity of sugars produced in Canadian refineries during 1942 was less than that of 1941 by 425,633,853 pounds and the selling value decreased by \$16,725,935. The quantity of beet sugar decreased by 26,812,401 pounds and cane sugar by 398,821,452 pounds, making the decrease as stated above. Molasses decreased in quantity but shows an increase in value. Of the eleven refineries reporting, one had a value of production of under one million dollars, six a production of between two and five million and four a production of over five million dollars.

Table 3. - Sugar and By-Products

Products	1 9 4 2		1 9 4 1	
	Quantity	Selling Value at Factory 1/	Quantity	Selling Value at Factory 1/
	Pounds	\$	Pounds	\$
Sugar - Made from cane	612,052,345	32,680,904	1,010,873,797	49,116,760
Made from beet	189,066,870	11,349,746	215,879,271	11,639,825
Total	801,119,215	44,030,650	1,226,753,068	60,756,585
Granulated	686,520,185	37,913,185	1,047,750,817	52,216,773
Yellow or Brown	82,639,909	4,085,518	132,674,842	5,894,980
Pulverized or icing	19,384,615	1,207,884	36,199,630	2,012,312
Fruit	2,189,263	127,923	3,935,471	217,191
Loaf	10,385,243	696,140	6,192,308	415,329
Syrups (not including molasses)	8,827,805	316,316	5,748,097	183,555
Molasses - Made from cane	11,522,318	168,283	19,854,719	233,551
Made from beet	53,237,849	695,549	53,656,627	494,502
Total	64,760,167	863,832	73,511,346	728,053
Beet pulp, wet and dried	204,694,000	602,742	206,268,000	664,382
Other products	-	156,171	-	70,134
TOTAL VALUE OF PRODUCTS..	-	45,969,711	-	62,402,709

1/ This does not include excise taxes.

THE SUGAR REFINING INDUSTRY IN CANADA, 1942.

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 1942. Acreage of sugar beets harvested decreased by 1,544 acres, the total yield by 6,732 tons but the total value of the crop increased by \$653,366.

Table 4. - Area, Yield and Value of Sugar Beets in Canada and Production of Refined Beetroot Sugar Compared, 1918 to 1942.

Year	Acres	Total	Yield	Total	Average	Production and Value (at the		
	Grown	Yield	Per	Value	Price	refinery) of refined		
	No.	Tons	Acre	\$	\$ cts.	Lb.	\$	\$ cts.
			Tons					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	x50,444	555,969	11.02	3,510,922	6.31	156,066,242	6,103,264	3.91
1937	x43,758	422,152	9.65	2,825,006	6.69	120,440,235	5,230,971	4.34
1938	x45,194	498,102	11.02	3,403,635	6.83	143,013,847	6,001,380	4.20
1939	x57,316	586,444	10.23	4,417,372	7.53	169,320,343	8,063,332	4.76
1940	x77,548	825,344	10.64	6,022,670	7.30	213,602,511	10,853,665	5.08
1941	x63,925	708,616	11.08	5,781,151	8.16	215,879,271	11,639,825	5.39
1942	x62,381	701,884	11.25	6,434,517	9.17	189,066,870	11,349,746	6.00

x This is the number of acres harvested. The acreage seeded is slightly higher than these figures, being 64,768 acres in 1942 and 70,803 acres in 1941.

THE SUGAR REFINING INDUSTRY IN CANADA, 1942.

Table 5. - Wholesale Prices of Sugar at Montreal and Vancouver for Specified Months, 1941 and 1942

(Compiled by the Internal Trade 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	1941	1942	1941	1942	1941	1942	1941
	\$	\$	\$	\$	\$	\$	\$	\$
January ...	6.89	5.89	6.61	5.61	6.89	5.82	6.51	5.49
April	6.89	6.89	6.63	6.61	6.89	6.85	6.51	6.52
July	6.89	6.89	6.63	6.61	6.89	6.84	6.51	6.51
October ...	6.89	6.89	6.63	6.61	6.89	6.84	6.51	6.51

Materials Used

The cost of materials used in the industry during 1942, as shown in Table 6, amounted to \$33,283,971. This is a decrease from the previous year of \$12,783,219. Raw materials, consisting of raw cane and sugar beets, constitute almost 93 per cent of the total cost, other materials almost 2 per cent, and containers of all kinds almost 5 per cent. The average cost price of raw cane sugar laid down at the factory was \$3.87 per hundredweight in 1942 and \$3.54 per hundredweight in 1941. The cost at the factory of sugar beets was \$9.17 per ton in 1942 and \$8.16 in 1941.

Table 6. - Materials Used

Kinds of Materials	Unit of Measure	1 9 4 2		1 9 4 1	
		Quantity	Cost Value	Quantity	Cost Value
			at the Refinery		at the Refinery
			\$		\$
Raw cane sugar	Pound	629,893,608	24,408,760	1,046,709,658	37,084,667
Sugar beets	Ton	701,884	6,434,517	708,616	5,781,151
Cornstarch	Pound	678,542	39,245	1,212,276	65,146
Boneblack	"	1,542,014	73,776	2,668,294	133,620
Vegetable char	"	251,653	29,452	417,661	47,864
Infusorial earth ...	"	3,007,180	75,295	5,333,131	133,129
Lime	"	565,472	3,488	987,785	6,049
Limestone	Ton	36,553	92,981	40,207	102,033
Sulphur	Pound	283,780	7,411	294,801	6,877
Acids (sulphuric, hydrochloric, muriatic and phosphoric)	"	853,902	25,296	1,095,165	35,946
Soda ash	"	378,112	8,762	225,721	4,924
Filtering materials, n.e.s.	-	-	13,462	-	20,370
Other chemical materials	-	-	68,558	-	127,856
Containers (boxes, bags, etc.)	-	-	1,810,252	-	2,331,806
All other materials and supplies	-	-	192,716	-	185,752
TOTAL COST OF MATERIALS USED	-	-	33,283,971	-	46,067,190

THE SUGAR REFINING INDUSTRY IN CANADA, 1942.

Capital Invested

Table 7. - Capital Invested in the Sugar Industry

Items of Capital	1942	1941
	\$	\$
Fixed Capital -		
Present value of land, buildings, fixtures, machinery, tools, etc.	22,127,564	18,204,176
Working Capital -		
Inventory value of materials on hand, stocks in process, fuel and miscellaneous supplies on hand	4,878,429	4,928,539
Inventory value of finished products on hand	9,098,988	13,148,345
Operating capital (cash, bills and accounts receivable, prepaid expenses, etc.)	9,127,691	7,634,108
TOTAL CAPITAL INVESTED	45,232,672	43,915,168

Employment Statistics

Employment statistics are given in Tables 8, 9 and 10. Wage-earners in 1942 numbered 1,701 males and 166 females, with a payroll of \$2,610,425 while salaried employees numbered 353 males and 106 females, with salaries totalling \$1,162,006. Compared with 1941 there was a decrease of 316 in the number of persons employed and \$62,208 in the salaries and wages paid. The maximum employment of wage-earners was reached in November with a total of 2,657 and the minimum in June with a total of 1,319.

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 211 in 1942 and 240 in 1941. Six of the eleven factories employed between 100 and 200 persons (average 154), four employed between 200 and 400 persons (average 325) and one employed less than one hundred persons.

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

Year	Salaried Employees			Wage-earners (Monthly Averages)			Total Employees Salaries and Wages		
	Male	Female	Total	Male	Female	Total	Male	Female	Salaries
	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

THE SUGAR REFINING INDUSTRY IN CANADA, 1942.

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

Months	1 9 4 2		1 9 4 1	
	Male	Female	Male	Female
January	1,750	113	1,717	91
February	1,527	162	1,569	115
March	1,466	139	1,508	118
April	1,499	115	1,587	86
May	1,522	148	1,778	136
June	1,203	116	1,902	135
July	1,315	150	1,802	123
August	1,291	154	1,904	137
September	1,865	203	2,434	132
October	2,376	227	3,427	134
November	2,419	238	3,212	153
December	2,162	217	1,685	118
Monthly Average	1,701	166	2,043	123

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 1	
	Number of Employees		Number of Employees	
	Male	Female	Male	Female
30 hours or less	152	16	215	10
31 - 43 hours	326	69	452	63
44 hours	70	55	29	34
45 - 47 hours	79	11	146	7
48 hours	269	33	499	9
49 - 50 hours	97	14	147	14
51 - 54 hours	132	27	194	3
55 hours	47	6	71	3
56 - 64 hours	829	24	844	24
65 hours and over	894	17	1,006	-
AVERAGE HOURS PER WEEK	56.0	46.1	54.1	43.6
AVERAGE WEEKLY EARNINGS	\$31.67	\$16.90	\$25.89	\$13.24

THE SUGAR REFINING INDUSTRY IN CANADA, 1942.

Table 11. - Power Equipment

Classes of Power	1 9 4 2		1 9 4 1	
	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	37	16,078
Idle	3	790	3	790
Gasoline, gas and oil engines -				
In use	31	816	30	791
Idle	3	45	3	45
Electric motors operated by purchased power -				
In use	691	8,477	632	8,085
Idle	65	1,842	64	1,814
TOTAL POWER AVAILABLE FOR MANUFACTURING	831	28,438	769	27,603
Electric motors operated by power generated by the establishment - In use	1,762	20,672	1,717	15,507
Idle	117	1,410	109	1,181
Stationary boilers - In use	67	29,742	67	31,232
Idle	2	650	2	650

Table 12. - Consumption of Fuel and Electricity.

Kinds of Fuel	Unit of Measure	1 9 4 2		1 9 4 1	
		Quantity	Cost Value	Quantity	Cost Value
			\$		\$
Bituminous Coal, Canadian	Ton	54,949	278,613	72,567	377,026
" " Imported	"	59,185	400,815	77,007	500,829
Lignite Coal	"	62,831	142,075	55,569	122,448
Coke	"	3,506	50,575	3,279	36,186
Gasoline (x)	Imp. Gal.	20,762	6,480	33,805	9,016
Fuel Oil	" "	4,492,584	253,690	7,651,212	333,913
Kerosene or coal oil	" "	1,580	403	1,724	441
(Manufactured ...	M Cu.ft.	1,617	1,705	1,609	1,715
Gas (Natural	" " "	2,914	1,457	2,255	1,150
TOTAL COST OF FUEL	-	-	1,135,813	-	1,382,724
Electricity purchased (including service charges)	Kw.H.	11,325,356	90,142	13,771,006	105,124
TOTAL COST OF FUEL AND ELECTRICITY	-	-	1,225,955	-	1,487,848

(x) Includes gasoline used in cars and trucks.

THE SUGAR REFINING INDUSTRY IN CANADA, 1942.

List of Sugar Refineries.

NOVA SCOTIA

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

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.

ONTARIO

- (1) Beamish Sugar Refineries, Ltd. 587 Fleet Street, Toronto
(2) Canada & Dominion Sugar Co., Ltd. Chatham
(2) Canada & Dominion Sugar Co., Ltd. Wallaceburg

MANITOBA

- (2) The Manitoba Sugar Company, Limited (Fort Carry) 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) Make cane sugar only.

(2) Make beet sugar only.

STATISTICS CANADA LIBRARY
BIBLIOTHEQUE STATISTIQUE CANADA



1010752027