CANADA

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DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

REPORT

on the

SUGAR INDUSTRY

in

CANADA

1923

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Published by Authority of the Hon. Thos. A. Low, M. P., Minister of Trade and Commerce

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DOMINION FUNDAU OF STATISTICS

CENSUS OF INDUSTRY

OFTAWA - GANADA

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THE SUGAR INDUSTRY IN CAMADA, 1923

Ottawa, April, 1925 .- A report on the Sugar Industry in Canada is herewith presented for the calendar year 1923. Although one of the lesser industries numerically, it occupies ninth place in the total value of its production, and first place in average value of production per establishment. In order to prevent disclosure of the operations of individual plants the statistical information is not available by provinces as the following statement of the location of refineries by provinces indicates. Ontario and Quebec each have two plants and British Columbia, New Brunswick and Nova Scotia each have one plent making a total of seven refineries in the Dominion.

New Beet Sugar Factory.

The Utah-Idaho Sugar Company of Salt Lake City are building a plant at Raymond, Alberta, with a capacity of 1,000 tons of beets per day, and costing a million dollars. They will manufacture all grades of sugar.

Comparative Statistics.

The accompanying table gives the principal statistics of the industry for the five year period 1919-1923.

Principal Statistics.	1923	1922	1921	1920	191 9
RefineriesNo. Capital Invested\$	7	7	7	8	б
Capital Invested \$ 4 Employees on Salaries -	5,618,182	36,691,472	35,783,067	46,719,034	38,725,542
MalesNo.					385
FemalesNo.					
Salaries\$ Employees on Wages -	831,107	113,300	765,456	1,029,930	583,709
MalesNo. FemalesNo.					2,923
Wages\$					3,294,185
Cost of Fuel\$	1,510,367	1,918,987	1,810,176		2,083,315
				7,270,267	6,374,053 86,308,204
Value of products and by-products\$ 7	7,004,026	70,822,782	69,509,827	119,086,731	102,630,086
Value added by manufac- ture\$ 1					
ture	.7,100,104	14,100,040	15,051,000	1 -0+071+0-0	Ladi Jerigor

Principal Statistics Compared 1919-1923

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Comparative Statistics of Sugar Production 1919-1923

The accompanying table affords a comparative view of sugar production by classes, quantity and value for the calendar years 1919 to 1923. A summary of beet production by acreage, yield and value is also shown in this connection.

Kinds of sugar	Unit	1923	1922	1921	1920	1919
Granulated Sugars:- Male from cane Made from beets Total value, granulated	10. 16. \$	718,049,089 39,423,160 63,990,279	1,006,099,197 29,911,770 63,518,155	636,446,914 52,862,377 60,185,249	604,173,160 89,280 719 104,697,061	823,213,445 37,839,342 86,423,297
Soft sugars:- Made from cane Total value, soft sugars Total quantity, all sugar	1b. 3		112,093,407 6,148,861 1,148,104,374 69,667,016	94,754,353 8,442,174 784,063,644 68,627,423	88,760,215 12,649,281 782,219,094 117,346,342	156,005,630 14,288,582 1,017,058,417 100,711,879
Total value, all sugar	19	76,144,634 Sugar Bust,	Factory Product:			1
Acreage Total yield Total value	ac. ton	17,941	14,955 127,807 966,522	25,335 199,334 1,974,384	34,491 343,000 5,307,243	18,800 130,000 2,630,027
And the second s	re, Impor		nd Consumption of		the calendar y	and the second s
Sugar Manufactured, quantity value	:1b. 3	C41,973,637 78,144,634	1,148,104,374 69,667,016	734,063,644 68,627,423	782,219,094	1,017,058,417 100,711,879
Plus Sugar Imported quantity value	1b. \$	17,039,979 1,241,491	2,654,290, 96,692	20,571,959 2,051,790	9,684,531 1,375,932	716,984 58,058
Less Sugar Exported quantity	10.	119,121,347 12,023,173	316,651,937 20,566,055	86,765,970 7,3 ³ 3,245	69,014,171 12,278,795	242,972,128 22,113,389
Sugar available for Cuantity consumption value For Capita con- quantity	1b. 3 1b.	739,397,269 65,362,952 31.46	³ 34,106,727 49,197,653 93.30	804,635,603 66,575,643 91.55	732,889,454 106,443,479 83.75	774,803,273 78,656,543 91.38

Sugar Production, 1919-1923

THE SUGAR INDUSTRY IN CAMADA 1923

SUGAR PRODUCTION 1923

The quantity and selling value at the refinery of the products and by-products of the Sugar Industry in Canada are presented in Table I. Although the quantity of refined sugar shows a decrease of 306,125,737 lbs. there was an increase in the total value of production amounting to \$6,477,613. This condition is explained by the rise in the market price of sugar, the average advancing from 6.07 cents per lb. in 1922 to 9.04 cents per lb. in 1923 or an increase of approximately 50 per cent. Cane sugar, whether granulated or soft, decreased by 315,637,127 pounds whilst on the other hand granulated beet sugar increased by 9,511,390 making a net decrease as above stated.

3.

		Products	s Made	
Products	Unit	Quantity	Selling Value at factory	
Granulated Sugars -			\$	
From Cane From Beets	1b.	718,049,039) 39,423,160)	68,990,279	
Soft sugars	15.	54,505,388	7,154,355	
folasses Dried bect pulp	;al.	2,105,633	295,279	
11 other products			102,438	
Total Selling Value of Products	-		77,004,026	

CAPITAL INVESTED

Table II gives the statistics relating to capital investment under two main heads, Fixed Capital represented by (a) Land, buildings and fixtures (b) machinery and tools totalled \$33,585,361 in 1923 as compared with a total valuation in 1922 of \$25,150,539. Working capital comprising (a) materials on hand, stocks in process, fuel and miscellanoous supplies on hand and (b) cash, trading and operating accounts, etc. showed a total value of \$11,731,821 in 1923 as against \$11,540,633 in 1922.

Items of Capital	Amount	
Fixed Capital	\$	
Fixed Capitaltotal Land, buildings and fixtures Machinery and tools Forking Capitaltotal Materials on hand, stocks in process, fuol and	33,8%6,361 17,093,410 16,792,951 11,731,821	
Cash, trading and operating accounts, etc	5,684,815 6,047,006	
Grand Total of Capital	45,618,182	

TABLE I. - SUGAR PRODUCTION, 1923

THE SUGAR INDUSTRY IN CAMADA 1923

EMPLOYEES, SALARIES AND WAGES

The statistics of employment are shown in Table III for the Dominion by classes, sex and remuneration. Salaried employees of classes show an increase over 1922 of 31 in number and of \$57,741 in remuneration. On the other hand, with a decreased production of over 300 million pounds, the number of workers on wages fell from 2,428 in 1922 to 2,045 in 1923. The total amount paid for salaries during the year was \$831,107 and for wages \$2,495,555.

TABLE III .- Employees, Salaries and Wages, 1923

Classes of Employees	No. of Employees Male Female		Salaries and Wagos	
Salaried Officers of corporations	28 18	3	216,316 91,417	
Technical experts, engineers, chemists, accountants, etc Clorks, stenographers, salesmen and other	42		136,567	
wage earners, average number	212 1,961	45 84	386,807 2,498,555	
TOTALS	2,261	132	3, 329, 662	

Table IV. shows employment statistics by number and sex for each month of the year and also the average employment for the year. The month of maximum employment was that of November when 2,403 persons were ontered on the payrolls. Minimum employment was reached in the month of January with a total payroll of 1,488 persons.

TABLE IV Employm	ent by Months
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	No. or	aployed		No. e	mployed
Month	Male	Female	Month	Male	Fomale
January	1,439	49	July	2.042	84
February	1,953	78	August	1,913	91
March	2,041	94	September	1,569	77
April	1,983	81	October	2,203	80
lay	2,107	92	November	2,302	101
June	2,187	93	December	1,792	91
Ave	rage monthly (the Year hroughout the year	23,531 1,961	1,011 84

OTHER LABOUR STATISTICS

The working time of refineries and of the persons employed there together with averages is shown in Table V. The operating time in the various plants is shown by (a) full time (b) part time and (c) time idle. That of employees is shown by the number of hours worked per day and per week.

TABLE V .- Operating Time of Plants and Employees, 1923.

Number of Refineries reporting		7
	Totals	Averages per pla: t
and the second se		
Days in Operation - On full time on part time Idle	1,444 250 434	206.30 35.71 62.00
Hours worked by employees Per day or shift Per week	73 434	10.43 62.00

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THE SUGAR INFUSTRY IN CALADA 1923

FUEL CONSUMPTION

The quantity and cost value of the fuel consumed by the industry, delivered at the works, is shown by classes in Table VI. Approximately 60 per cent of all the fuel consumed was bituminous coal, fuel oil being next with over 35 per cent. The total cost of all fuel used during the year amounted to \$1,510,367.

5.

TABLE VI .- Fuel Consumption by Classes, 1923.

Kinds of Fuol	Unit	Quantity	Cost Value at Refinery
Bituminous coal, all classes Anthracite coal, all classes Coke Fuel oils	Π • • • • • • • • • Π	183,549 100 2,533 9,764,484	985,483 775 26,277 497,832
Total fuel cost	-	-	1,510,367

MISCELLANEOUS INPENSES

The cost of all kinds of miscellaneous or overhead expenses during the year 1923 was \$4,488,744 as compared with a total outlay of \$6,149,384 in 1922. The principal items included under this head cover rents, taxes, insurance, alvertising and travelling expenses, repairs to buildings, machinery, etc., office furniture and supplies, telegraph, tolephone, postal and express charges, etc.

POWER ELIPLOYED

The classes of power employed in the industry during 1923 are shown in Table VII according to (a) the number of units in each class and (b) the horsopower according to manufacturers' rating. Steam engines, 128 in number, with a horsepower capacity of 12,532 and electric motors with 935 units and a horsepower capacity of 14,693 supplied all the power used in the industry. Of the electric motors 490 were operated by power generated by the establishment and 445 by rented power. The number of boilers installed was 76 with a B.H.P. of 23,669 but they form no part of the power installation.

TABLE VII .- Power Employed, 1923.

Classes of power	No. of Units	Total H.P. according to manufacturers' rating.
Steam ongines and turbines Electric motors -	128	12,532
Operated by power generated by the establish- ment Operated by purchased power	490 445	5,309 9,584
Total power installation	1,053	27,425

MATERIALS JSED

5.

The quantity and the cost value delivered at the refinery of the classes of materials used in the industry during the calendar year 1923 are shown in Table VIII The cost of raw sugar rose from 4.4 cents per pound in 1922 to 6.7 cents per 1b. in 1923. Likewise the cost of sugar beets advanced from \$7.56 per ton in 1922 to \$12.08 per ton in 1923.

TABLE VIII. - Materials Used, 1923

Classes of Materials	Unit	Quantity	Cost value del- ivered at refine
Raw Sugar. Sugar beets. Boneblack, purchased. Infusorial earth purchased. Lime. Limestone. Sulphur. Sulphuric and hydrochloric acids. Other chemicals, (value only). All other materials (value only). Boxes, bags and other containers.	15. ton 15. 15. 15. 15. 15. 15. 	845,767,900 159,200 3,019,078 1,484,507 849,277 16,349 129,082 124,564	\$ 56,723,143 1,922,668 122,951 34,563 5,624 . 36,118 2,571 3,245 39,306 649,301 2,273,372
Total cost of Materials	**	-	51,817,852

Capacity of Canadian Refineries.

The average daily capacity of the seven refineries of the Dominion during 1923 as reported to the Bureau was as follows!

Beets used	tons	2,499
Raw sugar melted	lbs,	6,394,550
Granulated sugar made	1's.	5,233,490
Soft sugars made	lòs.	596,085
Syrups		224,513

INPORTS AND EXPORTS 1923

Tables IX and X, present statistics of imports and exports of sugar and its products. A comparative statement of the import and export of certain articles will be found on page for the calendar year 1919 to 1923.

TABLE TX ... Imports for Consumption, Calendar year 1923.

Articles	1.5.5	Quantity	Vajue
Sugar, n.o.p. not above No.16 D.S. in colour, etc.	1b.	\$47,016,372	44,562,830
Sugar, above Lo.16 D.S. when imported by refineries for refinining only	16.	1,515,536	85,124
Sugar above No.16 D.S. and all refined sugars of whatever kind, grade or standard Sugar cane shredded	1b.	17,039,979	1,241,491 1,494
Hucose, glucose syrup and corn syrup or any admixture thereof	! ! 1b.	3,041,660	120,990
Molasses of cane testing under 35 degrees but not less than 20.degrees	gal.	160,444	41,670
Molasses produced in the process of manufacturing cane sugar not less than 35 degrees and not more than 56 degrees	gal,	224,755	118,010
Molacses testing not more than 56 degrees, the moduce of any British country, etc	gal.	4,237,710	2,557,547
substitutes thereof	1	13,569,913	.317.968
Total value of imports			49;047,124
TABLE X Exports of Canadian	produc	e, calendar j	7ear 1923
Articles	1	Quantity	
Sugar of all kinds blasses and syrups of all kinds Sugarhouse syrups	gal.	464,814	31,435
States and glucose syrups		10,762	271 61,965
Total value of exports	-		12,117,383



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