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CANADA
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY

ADVANCE REPORT
on the
MALT LIQUOR INDUSTRY
in
CANADA 1919 & 1920

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OTTAWA

1922

3-15-38

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1938

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DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

OTTAWA, CANADA.

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THE MALT LIQUOR INDUSTRY, 1919 and 1920.

Ottawa, June, 1922: The Dominion Bureau of Statistics presents a report on the Malt Liquor Industry in Canada during the calendar years 1919 and 1920. Reports were received covering the operations of 57 breweries for each of the two years. The location of establishments by provinces, was as follows:-

Province	1919	1920
CANADA	57	57
Alberta	4	5
British Columbia	13	13
Manitoba	5	5
New Brunswick	2	2
Nova Scotia	1	1
Ontario	21	20
Quebec	10	10
Saskatchewan	1	1

An increase of one plant in Alberta and a decrease of one in Ontario are the only changes recorded as between the calendar years 1919 and 1920.

PRINCIPAL STATISTICS

The table below shows for the calendar years 1919 and 1920 the principal statistics of this industry. Individual tables show the details of the more important items of information collected.

Items		1919	1920
Establishments		57	57
Capital Investment	\$	28,119,447	37,494,396
Salaried employees -			
Male	No.	405	490
Female	No.	45	68
Salaries	\$	858,557	1,089,664
Wage-earners -			
Male	No.	2,181	2,777
Female	No.	55	33
Wages	\$	2,272,908	3,289,996
Cost of fuel	\$	547,823	755,400
Power - units	No.	784	835
capacity	H.P.	20,457	21,826
used	H.P.	15,489	15,736
Miscellaneous Expenses	\$	4,305,692	7,587,607
Cost of Materials	\$	8,093,403	12,525,107
Value of Products	\$	20,169,074	29,695,850

THE MALT INDUSTRY IN CANADA, 1919 and 1920.

PRINCIPAL STATISTICS BY PROVINCES.

The statement following shows for the years 1919 and 1920 the relative importance of the industry by provinces. The statistics for British Columbia, Manitoba, Alberta and Saskatchewan are combined under the heading "Western Provinces" as are also those for New Brunswick and Nova Scotia under "Maritime Provinces". Prince Edward Island is the only Canadian Province where no brewery is operated.

Items	1 9 1 9				
	CANADA	Ontario	Quebec	Maritime Provs.	Western Provs.
Establishments	57	21	10	3	23
Capital investment \$	28,119,447	8,551,936	11,038,855	706,949	7,821,707
Salaried employees -					
Male	No. 405	130	145	11	119
Female	No. 45	23	12	3	7
Salaries	\$ 858,557	290,274	305,424	23,339	241,520
Wage-earners -					
Male	No. 2,181	637	960	39	545
Female	No. 55	6	42	5	2
Wages	\$ 2,272,902	645,014	958,749	35,851	602,264
Cost of fuel	\$ 547,823	162,000	220,913	15,678	149,232
Power - Units	No. 784	309	248	43	184
Capacity ...	H.P. 20,457	8,840	5,866	589	5,160
Used	H.P. 15,489	5,908	4,705	434	4,442
Miscellaneous Exp... \$	4,305,692	1,182,349	2,302,819	64,713	755,811
Cost of Materials .. \$	8,093,403	1,687,699	4,143,009	115,520	2,147,175
Value of Products .. \$	20,169,074	4,690,670	10,096,400	289,652	5,092,352
	1 9 2 0				
Establishments	No. 57	20	10	3	24
Capital investment .	\$ 37,494,390	8,875,458	14,798,365	767,547	13,053,028
Salaried employees -	No.				
Male	No. 490	151	183	12	144
Female	No. 68	34	17	2	15
Salaries	\$ 1,189,664	343,793	391,392	28,865	325,614
Wage-earners -					
Male	No. 2,778	695	1,350	50	683
Female	No. 32	4	20	6	2
Wages	\$ 3,289,996	852,059	1,441,356	49,617	946,964
Cost of fuel	\$ 755,400	227,489	308,197	22,053	197,661
Power - Units	No. 835	265	190	43	337
Capacity ...	H.P. 21,820	7,968	5,113	456	8,289
Used	H.P. 15,736	5,242	3,628	318	6,548
Miscellaneous Expenses \$	7,587,607	1,383,352	4,641,484	110,039	1,452,732
Cost of Materials \$	12,525,107	2,220,829	6,406,800	215,248	3,682,230
Value of Products \$	29,695,859	5,744,963	15,012,359	465,086	8,473,446

THE MALT LIQUOR INDUSTRY IN CANADA, 1919 and 1920.

PRODUCTION.

An increase of \$9,526,785 is reported in the value of Brewery products in 1920 over the preceding year. The quantity of beer, ale, etc., in barrels show a decrease, though there is an increase in value. Bottled liquors increased by 5,199,635 gallons and the value reached \$20,227,059 in 1920. The total value of beer, ale, stout and porter was reported at \$19,122,837 in 1919 and at \$28,588,622 in 1920, an increase of \$9,465,785. The total value of all products increased from \$20,169,074 in 1919 to \$29,695,859 in 1920.

The following table gives detailed statistics of production for 1919 and 1920 and comparative values by provinces and by items for 1920.

	Unit of measure	1919		1920	
		Quantity	Value \$	Quantity	Value \$
Beer, ale, stout and porter in barrels ...	gal.	18,267,628	7,046,684	16,543,528	8,361,563
Beer, ale, stout and porter in bottles ...	"	16,622,905	12,076,153	21,822,540	20,227,059
Malt made for sale ...	bus.	114,910	229,820	-	-
Malt extract, thick ...	lbs.	15,610	183	3,800	65
Malt flour	lbs.	-	-	-	21,802
Grains	-	-	219,592	-	301,832
Aerated water	-	-	453,759	-	626,553
All other products ...	-	-	142,883	-	156,985
TOTALS			20,169,074		29,695,859

Value of Products itemized by Provinces for the Calendar year 1920

Items	CANADA \$	Ontario \$	Quebec \$	Maritime Provs. \$	Western Provs. \$
Beer, ale, stout and porter, in barrels.....	8,361,563	1,552,011	3,555,982	79,862	3,173,708
Beer, ale, stout and porter, in bottles	20,227,059	3,902,497	11,234,609	290,822	4,799,131
Malt made for sale	-	-	-	-	-
Malt extract, thick	65	65	-	-	-
Malt flour	21,802	-	21,802	-	-
Grains	301,832	47,244	199,956	3,764	50,868
Aerated waters	626,553	221,576	-	17,543	387,434
All other products	156,985	21,575	10	73,095	62,305
TOTALS	29,695,859	5,744,968	15,012,359	465,086	8,473,446

CAPITAL INVESTMENT

The statement below shows by items for the years 1919 and 1920 the amount of capital invested in this industry. The second table gives the same information by provinces for the year 1920.

(a) Capital invested in the entire industry by items for the calendar years 1919 and 1920

Year	Land, buildings and fixtures	Machinery and tools	Materials on hand stocks in process, etc.	Cash, trading and operating accts. etc.	Total Capital
1919	12,149,295	5,483,676	4,659,804	5,826,672	28,119,447
1920	16,153,350	5,980,503	6,324,478	9,036,065	37,494,396

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THE MALT LIQUOR INDUSTRY IN CANADA, 1919 and 1920.

CAPITAL INVESTMENT, continued.

(b) Capital invested by items and provinces for the year 1920

Items	CANADA	Ontario	Quebec	Maritime Provs.	Western Provs.
	\$	\$	\$	\$	\$
Land, buildings and fixtures	16,153,350	3,407,483	6,224,450	464,950	6,056,467
Machinery and tools	5,980,503	1,956,691	2,500,587	70,674	1,452,551
Materials on hand, stocks in process..	6,324,478	1,903,713	2,905,735	95,970	1,419,060
Cash, trading and operating acctts, etc.	9,036,065	1,607,571	3,167,591	135,953	4,124,950
TOTAL CAPITAL	37,494,396	8,875,458	14,798,363	767,547	13,053,028

EMPLOYEES, SALARIES AND WAGES

Salaried employees and wage-earners are shown for the calendar years 1919 and 1920 in the accompanying table. There is a total increase of 681 male and one female employee in 1920. The total of salaries and wages paid also increased by \$1,248,195 from a total of \$3,131,465 in 1919 to \$4,379,660 in 1920.

Classes	1919			1920		
	Employees		Salaries & wages	Employees		Salaries & wages
	Male	Female		Male	Female	
	No.	No.	\$	No.	No.	\$
Officers, superintendents, and managers	147	-	465,751	359	2	539,031
Clerks, stenographers and other salaried employees ...	258	45	392,806	331	66	550,633
Wage-earners, average number	2,181	55	2,272,908	2,777	33	3,289,996
TOTALS	2,586	100	3,131,465	3,267	101	4,379,660

Wage-earners are shown by months for the years 1919 and 1920 in the following summary. In 1919, January with 1,728 males and 42 females was the low and July with 2,794 males and 76 females was the high month of employment. In 1920 the months were January 2,318 males and 34 females and August 3,282 males and 28 females.

Month	1919		1920	
	Male	Female	Male	Female
	No.	No.	No.	No.
January	1,728	42	2,318	34
February	1,735	42	2,326	38
March	1,792	43	2,443	34
April	1,923	49	2,711	37
May	2,130	62	2,900	30
June	2,315	70	3,021	32
July	2,794	76	3,232	32
August	2,735	72	3,282	28
September	2,519	67	3,090	35
October	2,199	53	2,862	38
November	2,135	39	2,612	32
December	2,166	44	2,525	29
AVERAGE NUMBER	2,181	55	2,777	33

THE MALT LIQUOR INDUSTRY IN CANADA, 1919 and 1920.

CLASSIFIED WEEKLY WAGES.

In the next table will be found for 1919 and 1920 the wage-earners divided as to age and sex and classified according to weekly wage payments within specified groups. The largest group in 1919 was that of \$15 to under \$20, numbering 824 employees. In 1920 the group of \$24 to under \$28, numbering 795, was the greatest.

Weekly Wage Groups	1 9 1 9				Total Employees No.
	16 years & over		Under 16 years		
	Male No.	Female No.	Male No.	Female No.	
Under \$5 per week	4	3	-	-	7
\$5 but under \$10 per week ..	36	18	2	2	58
\$10 " " \$15 " " ..	172	20	2	-	194
\$15 " " \$20 " " ..	823	1	-	-	824
\$20 " " \$24 " " ..	559	-	-	-	559
\$24 " " \$28 " " ..	313	-	-	-	313
\$28 " " \$30 " " ..	117	-	-	-	117
\$30 per week and over	143	-	-	-	143
TOTALS	2,167	42	4	2	2,215

Weekly Wage Groups	1 9 2 0				Total Employees No.
	16 years & over		Under 16 years		
	Male No.	Female No.	Male No.	Female No.	
Under \$5 per week	1	-	-	-	1
\$5 but under \$10 per week ..	27	7	-	-	34
\$10 " " \$15 " " ..	68	6	1	-	75
\$15 " " \$20 " " ..	518	15	2	-	535
\$20 " " \$24 " " ..	547	-	-	-	547
\$24 " " \$28 " " ..	795	-	-	-	795
\$28 " " \$30 " " ..	156	-	-	-	156
\$30 per week and over	422	1	-	-	429
TOTALS	2,540	29	3	-	2,572

FUEL CONSUMPTION.

The quantities and values of the various kinds of fuel consumed during the calendar years 1919 and 1920 are shown in the following table:-

	Unit of measure	1 9 1 9		1 9 2 0	
		Quantity	Value \$	Quantity	Value \$
Bituminous coal	tons	57,410	405,508	60,325	576,744
Anthracite coal	"	16,090	100,628	9,476	82,680
Lignite coal	"	2,215	7,142	6,442	34,579
Coke	"	60	743	991	6,681
Gasoline	gal.	28,351	10,105	60,954	26,773
Fuel oil	"	245,475	13,608	184,947	11,035
Wood	cds.	2,284	9,586	2,842	13,914
Gas	m. c. ft.	7,266	503	6,242	501
Other fuel		-	-	-	2,493
TOTAL COST VALUE OF FUEL			547,823		755,400

POWER STATISTICS.

The compilation of power equipment shows for the various kinds of power, and for the years 1919 and 1920, the number of units installed, the indicated horse-power and the horse-power effectively used. The following summary shows the classified data -

Kind	1919			1920		
	No. of units	Indicated H.P. capacity	H. P. effectively used	No. of units	Indicated H.P. capacity	H.P. effectively used
Engines -						
Steam	87	5,310	3,808	107	5,565	3,663
Gas	1	8	-	2	36	-
Electric motors	593	5,063	3,860	630	6,390	4,996
TOTALS	681	10,381	7,668	739	11,991	8,659
Boilers	103	10,076	7,821	96	9,835	7,077

MISCELLANEOUS EXPENSES.

The outlay covering expenses of a miscellaneous character are classified for the years 1919 and 1920 and shown in the statement below:-

Items	1919	1920
Rent of officers, works and machinery	8,134	9,609
Rent of power	66,440	65,912
Insurance (premiums for year only) ...	141,401	169,536
Taxes, (municipal, provincial & federal)	504,606	3,438,472
Advertising expenses	289,446	393,570
Travelling expenses	146,647	200,805
Royalties, use of patents, etc.....	1,094	560
Repairs to buildings and machinery....	418,996	568,724
All other sundry expenses	2,728,928	2,740,419
TOTAL MISCELLANEOUS EXPENSES	4,305,692	7,587,607

MATERIALS USED.

The largest outlay for materials was made for Malt, costing \$6,188,300 for 2,113,924 bushels in 1920, and \$3,912,966 for 1,440,819 bushels in 1919. The total cost of materials was reported at \$8,093,403 in 1919 and at \$12,525,107 in 1920, an increase of \$4,431,704. The cost of bottles also increased from \$1,589,983 in 1919 to \$2,590,284 in 1920, a difference of \$1,000,301. The table below gives the quantities and cost value (including duties) of all materials used during the years 1919 and 1920. Canadian and foreign malt are shown separately.

	Unit of measure	1919		1920	
		Quan.	Cost Val.	Quan.	Cost Val.
Barley for malting	bus.	237,306	\$ 324,468	105,695	\$ 180,670
Malt purchased -					
(a) Canadian malt	"	1,374,224	3,722,826	1,991,254	5,825,764
(b) Foreign malt	"	66,595	190,140	122,670	362,536
Hops	lbs.	1,274,480	616,775	1,778,988	1,378,157
Water purchased	-	-	96,373	-	111,099
Anhydrous ammonia (N.H. 3) .	lbs.	40,869	15,318	48,100	21,000
Carbon dioxide (carbonic acid gas)	lbs.	716,127	56,117	609,183	51,048
Calcium chloride	"	159,348	3,723	103,561	3,213
Common salt	"	53,170	922	111,210	1,343
Cooperage	-	-	220,688	-	466,918
Cases	-	-	234,201	-	282,701
Bottles purchased	-	-	1,589,983	-	2,590,284
Labels	-	-	83,766	-	137,510
Other supplies (crows, corks, etc.)	-	-	860,705	-	1,026,937
All other materials	-	-	77,398	-	85,927
TOTAL COST OF MATERIALS			8,093,403		12,525,107

THE MALT LIQUOR INDUSTRY IN CANADA, 1919 and 1920.

IMPORTS AND EXPORTS.

The value of Imports in 1920 more than doubled those of 1919, the respective totals being \$131,615 and \$63,173. Exports were reported at 241,994 gallons valued at \$157,150 in 1919 and 756,381 gallons valued at \$859,364 in 1920, the increase in value being of 447 per cent.

A summary statement follows showing quantities and values of Imports and Exports for the calendar years 1919 and 1920.

Items	Imports			
	1919		1920	
	Quantity Gal.	Value \$	Quantity Gal.	Value \$
Beer, ale, porter and stout, in bottles	29,340	42,422	64,164	119,663
Beer, ale, porter and stout, in casks	14	6	1,200	820
Beer, etc., not over 2 $\frac{1}{2}$ % proof	18,144	20,745	7,474	11,132
TOTALS	47,498	63,173	72,838	131,615

	Exports			
	Quantity Gal.	Value \$	Quantity Gal.	Value \$
Beer, ale, porter and stout all kinds ¹	241,994	157,150	756,381	859,364

- ¹ The export classification makes no distinction between brewed liquors in bottles or casks and does not show separately liquor of not over 2 $\frac{1}{2}$ per cent proof content.

AVAILABLE FOR CONSUMPTION.

The following statement has been prepared to show for the calendar years 1919 and 1920 the quantity and value of all brewed liquors available for consumption in Canada. The 1920 totals show an increased value of \$8,332,013 for a supply greater by 2,986,488 gallons.

	1919		1920	
	Quantity Gal.	Value \$	Quantity Gal.	Value \$
Manufactured	34,890,533	19,122,837	38,366,068	28,588,622
Imported	47,498	63,173	72,838	131,615
TOTAL	34,936,031	19,186,010	38,438,906	28,720,237
Exported	241,994	157,150	756,381	859,364
AVAILABLE FOR CONSUMPTION	34,696,037	19,028,860	37,682,525	27,860,873

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