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REPORT
on the
BREWING INDUSTRY
in
CANADA
1921 and 1922

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Published by Authority of the Hon. Thos. A. Low, M. P.,
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CENSUS OF INDUSTRY

OTTAWA, CANADA

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THE BREWING INDUSTRY IN CANADA, 1921-1922

Ottawa, May, 1924.- The Dominion Bureau of Statistics presents here-
 with a report on the Brewing industry in Canada for the
 calendar years 1921-1922. During the year 1921 there were 55
 breweries in operation; the following year the total number of
 active establishments was 53. By provinces they are located
 as follows:-

<u>Provinces</u>	<u>1921</u>	<u>1922</u>
CANADA	55	53
Alberta	5	5
British Columbia	12	11
Manitoba	5	4
New Brunswick	2	2
Nova Scotia	1	1
Ontario	19	19
Quebec	10	10
Saskatchewan	1	1

In order to prevent disclosure of information
 concerning individual establishments, statistics for the
 provinces of New Brunswick and Nova Scotia have been combined
 and are shown throughout this report as "Maritime provinces"
 and for the same reason Manitoba and Saskatchewan have also
 been combined.

PRINCIPAL STATISTICS

The principal statistics of the industry are
 given by provinces in Table I for the calendar years 1921-1922.
 For the year 1921 the Province of Quebec leads in value of
 production with approximately 50 per cent of the total, whilst
 Ontario follows with nearly 20 per cent and Alberta takes
 third place with just over 12½ per cent. The following year
 Quebec again leads with a little less than 60 per cent, Ontario
 is second in importance with 21 per cent, and Alberta next in
 order with 7½ per cent.

THE BREWING INDUSTRY IN CANADA, 1921-1922.

Table 1.- Principal Statistics by Provinces, 1921-1922

1921	CANADA	Alberta	British Columbia	Manitoba & Saskatchewan	Ontario	Quebec	Maritime Provinces
Establishments No.	55	5	12	6	19	10	3
Capital investment \$	37,645,447	4,896,874	5,259,797	3,361,659	7,970,295	15,414,144	742,678
Employees on salaries - Male No.	516	52	48	67	165	171	13
Female No.	55	6	2	3	27	13	4
Salaries \$	1,276,635	131,551	144,325	134,715	398,259	436,901	30,884
Employees on wages - Male Av.No.	2,435	166	190	200	644	1,198	37
Female Av.No.	21	4	1	-	-	13	3
Wages \$	3,076,978	243,015	292,960	266,948	802,196	1,429,340	42,519
Cost of fuel \$	765,232	34,422	51,710	79,867	265,037	318,265	15,931
Power installed Units No.	903	111	97	105	227	329	34
Capacity H.P.	13,474	2,056	1,443	1,735	4,251	3,814	175
Miscellaneous expenses \$	7,571,074	401,269	456,587	391,297	1,402,110	4,838,346	81,465
Cost of materials \$	9,714,486	923,765	1,349,229	486,784	1,885,874	4,940,113	128,721
Value of products \$	30,931,853	4,015,947	3,272,100	1,750,128	6,086,180	15,457,328	350,170
Value added by manufacture \$	21,217,367	3,092,182	1,922,871	1,263,344	4,200,306	10,517,215	221,449
1922							
Establishments No.	53	5	11	5	19	10	3
Capital investment \$	34,788,432	4,502,020	2,293,306	1,687,461	9,514,645	16,091,052	699,948
Employees on salaries - Male No.	472	48	29	44	166	173	12
Female No.	68	8	-	-	44	13	3
Salaries \$	1,328,536	131,381	75,859	101,693	514,874	469,647	34,902
Employees on wages - Male Av.No.	2,284	165	122	137	590	1,228	42
Female Av.No.	33	2	1	-	7	17	6
Wages \$	2,574,884	201,361	164,147	162,320	739,718	1,262,681	44,657
Cost of fuel \$	582,070	26,591	36,634	51,790	177,282	274,009	15,764
Power installed Units No.	883	115	71	105	245	306	41
Capacity H.P.	13,273	2,225	1,364	1,264	3,876	4,191	358
Miscellaneous expenses \$	7,705,470	404,317	320,007	293,508	1,477,970	5,089,812	119,856
Cost of materials \$	8,125,364	646,416	497,892	491,165	1,711,059	4,616,575	162,257
Value of products \$	25,875,730	1,926,605	1,073,170	1,749,462	5,624,164	15,032,704	469,625
Value added by manufacture \$	17,750,366	1,280,189	575,278	1,258,297	3,913,105	10,416,129	307,368

THE BREWING INDUSTRY IN CANADA, 1921-1922

PRODUCTION

The quantity and value of the principal products of the industry are given in Table II for Canada and the provinces for the calendar years 1921 and 1922. The total value of all products in 1921 was \$30,931,853. There was a considerable reduction in the output for the following year, the value of which amounted to \$25,875,730, a decrease of \$5,056,123.

Table II(a). - Production by Provinces, 1921.

Principal Products	Unit	CANADA		Alberta		British Columbia		Manitoba and Saskatchewan	
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Beer, ale, stout, etc. in barrels	gal.	19,767,847	9,744,715	1,869,615	724,788	2,761,041	998,600	411,421	258,554
Beer, ale, stout, etc. in bottles	"	22,028,500	20,275,495	2,496,597	3,153,384	2,197,921	2,222,509	1,242,860	1,237,653
Grains	ton	130,864	204,480	1,820	9,773	2,628	13,193	887	6,545
Aerated waters	-	-	647,045	-	127,885	-	20,978	-	198,512
All other products	-	-	60,118	-	117	-	7,020	-	48,864
TOTAL			30,931,853		4,015,947		3,272,100		1,750,128
Production, 1921, continued	Unit	Ontario		Quebec		Maritime Provinces			
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Beer, ale, stout, etc. in barrels	gal.	4,203,726	1,913,443	10,478,383	5,806,289	103,661	43,041		
Beer, ale, stout, etc. in bottles	"	4,037,394	3,856,735	11,850,669	9,508,137	203,159	297,077		
Grains	ton	9,869	30,291	115,069	142,902	591	1,776		
Aerated waters	-	-	282,605	-	-	-	7,065		
All other products	-	-	2,103	-	-	-	1,211		
TOTAL			6,086,180		15,457,328		350,170		

THE BREWING INDUSTRY IN CANADA, 1921-1922

PRODUCTION (Continued)

Table II(b).- Production, by provinces, 1922.

Principal Products	Unit	CANADA		Alberta		British Columbia		Manitoba and Saskatchewan	
		Quantity	Value	Quantity	Value	Quan.	Value	Quan.	Value
Beer, ale, stout, etc. in barrels	gal.	13,106,429	6,057,733	543,438	313,339	326,046	179,885	522,287	450,119
Beer, ale, stout, etc. in bottles	"	22,500,303	19,169,207	1,152,465	1,546,888	677,182	873,830	1,183,658	1,235,200
Grains	-	-	202,336	-	5,125	-	4,690	-	6,641
Aerated waters	-	-	381,340	-	61,253	-	8,556	-	-
All other products	-	-	65,114	-	-	-	6,209	-	57,502
TOTAL			25,875,730		1,926,605		1,073,170		1,749,462
Production, 1922, continued	Unit	Ontario		Quebec		Maritime Provinces			
		Quantity	Value	Quantity	Value	Quan.	Value		
Beer, ale, stout, etc. in barrels	gal.	2,301,707	945,601	9,270,813	4,085,630	142,138	83,159		
Beer, ale, stout, etc. in bottles	"	4,248,734	4,344,458	14,977,944	10,789,039	260,320	379,792		
Grains	-	-	26,591	-	156,847	-	2,442		
Aerated waters	-	-	306,111	-	1,188	-	4,232		
All other products	-	-	1,403	-	-	-	-		
TOTAL			5,624,164		15,032,704		469,625		

CAPITAL INVESTMENT

The amount of capital employed in the industry is given in Table III for Canada and the provinces for the calendar years 1921 and 1922. There was a total of \$2,857,015 less capital employed during 1922 than in the previous year. Of this sum, fixed capital amounted to \$1,162,328, whilst \$1,694,687 represented the decrease in the amount of working capital involved.

Table III.- Capital Employed, 1921-1922

Provinces	Fixed CAPITAL		WORKING CAPITAL		Total Capital Invested
	Land, buildings and fixtures	Machinery and tools	Materials on hand stocks in process, &c	Cash, Trading and operating accts. &c.	
<u>1921</u>	\$	\$	\$	\$	\$
CANADA	17,751,051	7,592,694	5,177,777	7,123,925	37,645,447
Alberta	2,671,533	410,847	399,907	1,414,587	4,896,874
Br. Columbia ..	3,362,229	572,274	437,665	887,629	5,259,797
Manitoba and } Saskatchewan)	1,242,760	719,706	558,518	840,675	3,361,659
Ontario	3,019,740	2,342,883	1,282,283	1,325,389	7,970,295
Quebec	7,004,453	3,466,310	2,425,673	2,517,708	15,414,144
Maritime Provs.	450,336	80,674	73,731	137,937	742,678
<u>1922</u>					
CANADA	16,435,143	7,746,274	4,755,054	5,851,961	34,788,432
Alberta	2,590,298	674,213	294,202	943,307	4,502,020
Br. Columbia ..	1,363,035	428,622	167,288	334,361	2,293,306
Manitoba and } Saskatchewan)	650,581	501,977	243,918	290,985	1,687,461
Ontario	3,910,418	2,205,355	1,416,954	1,981,918	9,514,645
Quebec	7,458,296	3,841,162	2,580,254	2,211,340	16,091,052
Maritime Provs.	462,515	94,945	52,438	90,050	699,948

EMPLOYEES, SALARIES AND WAGES

The number of persons employed in the industry is shown in Table IV by classes of employment, sex, and salary and wage payments for the calendar years 1921 and 1922. During these two years there was a net decrease in the total number of employees amounting to 170 and the annual payroll was reduced to the extent of \$450,373. Although there was a reduction in all classes of male employees, and also among the female office workers, the average number of female wage earners rose from 21 in 1921 to 33 in the following year. During 1922 there were 31 less persons employed on the office staff, but the salaries paid were larger and required an additional \$51,901.

Table IV.-Employees, Salaries & Wages, 1921-22

Classes of Employment	1921			1922		
	Male No.	Female No.	Salaries & Wages \$	Male No.	Female No.	Salaries & Wages \$
Salaried officers of corporations	71	1	283,892	44	3	270,957
General supts. & managers	94	-	349,763	81	1	314,152
Technical experts, accountants, engineers	76	-	171,604	79	-	208,710
Clerks, stenographers, etc.	275	54	471,376	268	64	534,537
Employees on wages, av. no.	2,435	21	3,076,978	2,284	33	2,574,884
TOTAL	2,951	76	4,353,613	2,756	101	3,903,240

THE BREWING INDUSTRY IN CANADA, 1921-1922

OTHER LABOUR STATISTICS

The number of days the establishments were in operation and the number of hours per day and per week normally worked by wage earners are given in Table V for the calendar years 1921 and 1922. The average number of days each plant was entirely inactive was slightly higher in 1922, being 9.9 days, as against 8.5 days in the previous year. The hours of labour, daily and weekly remained practically unchanged.

Table V.- Other Labour Statistics

<u>1 9 2 1</u>			
Number of establishments		55	
		Total	Average
Number of days on full & part time	16,249		295.4
Number of days idle	471		8.5
Number of hours worked by wage - earners -			
Per day	496		9.0
Per week	2,881		52.4
<u>1 9 2 2</u>			
Number of establishments		53	
		Total	Average
Number of days on full & part time	15,583		294.0
Number of days idle	529		9.9
Number of hours worked by wage - earners -			
Per day	481		9.0
Per week	2,767		52.2

MATERIALS USED

The quantity and cost delivered at the establishment of all materials used will be found in Table VI for the provinces during the calendar years 1921 and 1922. There was a considerable reduction in the cost value of the principal materials used in 1922 over the previous year, the net decrease amounting to \$1,589,122. The one exception was "foreign malt" of which 79,559 bushels more were used, with an increased cost of \$110,697.

THE BREWING INDUSTRY IN CANADA, 1921-1922

MATERIALS USED (Continued.)

Table VI(a) Materials Used by Provinces, 1921.

Materials Used	Unit	CANADA		Alberta		British Columbia		Manitoba and Saskatchewan	
		Quantity	Value	Quantity	Value	Quan.	Value	Quan.	Value
Barley for malting	bu.	151,501	177,357	-	-	-	-	-	-
Canadian malt (incl. duty)	bu.	1,854,573	4,183,917	116,261	288,781	155,233	344,417	80,861	192,164
Foreign malt (incl. duty)	"	210,961	542,792	1,445	4,335	22,837	68,381	-	-
Hops	lb.	1,799,023	992,416	60,418	45,313	127,363	63,815	42,074	17,925
Water purchased	-	-	116,618	-	7,361	-	12,129	-	8,667
Anhydrous ammonia, N.H ₃	lb.	64,382	27,871	2,440	833	6,598	3,337	6,914	3,177
Carbonic acid gas	"	2,488,135	238,164	17,250	2,668	18,655	2,700	53,890	5,828
Calcium chloride	"	92,700	3,174	3,400	253	17,626	751	27,751	884
Common salt	"	142,946	2,111	1,600	43	24,400	376	7,028	230
Cooperage (barrels all sizes)	-	-	182,477	-	43,749	-	50,131	-	21,596
Cases	-	-	246,742	-	7,078	-	11,631	-	12,174
Bottles	-	-	1,840,451	-	417,953	-	598,372	-	78,093
Labels	-	-	137,591	-	4,848	-	21,313	-	10,562
All other materials	-	-	1,013,805	-	100,550	-	171,876	-	135,475
TOTALS			9,714,486		923,765		1,349,229		486,734
Materials used (Cont'd.)	Unit	Ontario		Quebec		Maritime Provinces			
		Quantity	Value	Quan.	Value	Quan.	Value		
Barley for malting	bu.	577	1,040	150,924	176,317	-	-		
Canadian malt (incl. duty)	bu.	302,578	562,184	1,177,522	2,745,249	22,118	51,122		
Foreign malt (incl. duty)	"	109,592	278,384	77,087	191,692	-	-		
Hops	lb.	279,644	203,239	1,268,222	649,936	21,302	12,188		
Water purchased	-	-	23,789	-	63,634	-	1,038		
Anhydrous ammonia, N.H ₃	lb.	10,708	4,855	36,733	15,244	989	425		
Carbonic acid gas	"	2,051,265	204,837	337,035	21,144	10,040	987		
Calcium chloride	"	35,473	1,096	8,450	190	-	-		
Common salt	"	22,562	213	86,912	1,232	444	8		
Cooperage (barrels, all sizes)	-	-	28,248	-	30,602	-	8,151		
Cases	-	-	66,974	-	148,273	-	612		
Bottles	-	-	268,448	-	451,825	-	34,760		
Labels	-	-	26,837	-	73,731	-	300		
All other materials	-	-	215,730	-	371,044	-	19,130		
TOTALS			1,885,874		4,940,113		128,721		

THE BREWING INDUSTRY IN CANADA, 1921-1922

MATERIALS USED (Continued).

Table VI(b).- Materials Used by Provinces, 1922.

Materials Used	Unit	CANADA		Alberta		British Columbia		Manitoba and Saskatchewan	
		Quantity	Value	Quan.	Value	Quan.	Value	Quan.	Value
Barley for malting	bu.	148,165	118,941	-	-	-	-	88	130
Canadian malt (incl. duty)	bu.	1,714,426	3,356,193	89,669	137,029	69,827	135,921	116,534	175,557
Foreign malt (incl. duty)	"	290,520	653,489	2,275	5,555	2,033	6,518	2,081	2,626
Hops	lb.	1,915,782	813,547	85,304	45,469	43,353	15,233	52,021	18,622
Water purchased	-	-	106,861	-	5,896	-	7,048	-	9,700
Anhydrous ammonia, N.H ₃	lb.	62,203	25,932	2,547	1,686	3,114	1,638	4,411	1,895
Carbonic acid gas	"	696,513	53,224	27,132	3,966	1,803	471	13,220	1,748
Calcium chloride	"	106,085	2,645	2,950	177	6,600	195	31,750	913
Common salt	"	134,958	1,833	1,500	36	2,790	94	3,185	79
Cooperage (barrels all sizes)	-	-	179,441	-	41,929	-	19,909	-	33,105
Cases	-	-	223,697	-	9,668	-	-	-	7,586
Bottles purchased	-	-	1,729,882	-	320,732	-	240,700	-	101,739
Labels	-	-	110,653	-	3,687	-	5,745	-	4,552
All other materials	-	-	749,026	-	70,586	-	64,420	-	132,901
TOTAL			8,125,364		646,416		497,892		491,165
Materials Used (cont'd.)	Unit	Ontario		Quebec		Maritime Provs.			
		Quantity	Value	Quan.	Value	Quan.	Value		
Barley for malting	bu.	345	586	147,732	118,225	-	-	-	-
Canadian malt (incl. duty)	bu.	174,487	327,273	1,236,100	2,514,702	27,809	65,711	-	-
Foreign malt (incl. duty)	"	153,353	323,665	130,668	314,879	110	246	-	-
Hops	lb.	234,906	107,615	1,471,443	616,215	28,755	10,389	-	-
Water purchased	-	-	15,748	-	67,154	-	1,307	-	-
Anhydrous ammonia, N.H ₃	lb.	11,580	4,872	39,033	15,213	1,518	628	-	-
Carbonic acid gas	"	125,322	12,038	515,382	33,741	13,654	1,260	-	-
Calcium chloride	"	52,334	1,064	12,451	296	-	-	-	-
Common salt	"	21,801	364	104,385	1,235	1,297	25	-	-
Cooperage (barrels, all sizes)	-	-	34,143	-	42,648	-	7,707	-	-
Cases	-	-	61,830	-	142,663	-	1,950	-	-
Bottles purchased	-	-	659,171	-	358,421	-	49,119	-	-
Labels	-	-	24,739	-	71,378	-	552	-	-
All other materials	-	-	137,951	-	319,805	-	23,363	-	-
TOTAL			1,711,059		4,616,575		162,257		

THE BREWING INDUSTRY IN CANADA, 1921-1922.

FUEL CONSUMPTION

The quantity and value of the various classes of fuel used in the industry is given in Table VII for the calendar years 1921-1922. The first place in both years is occupied by "Bituminous coal" of which 69,427 tons costing \$666,560 were required in 1921. Considerably less was consumed the following year, the amount falling to 60,687 tons with a valuation of \$499,732. The net decrease in expenditure on fuel of all kinds for the two years amounted to \$183,162.

Table VII.- Fuel Consumed, 1921-22

Classes of Fuel	Unit of measure	1 9 2 1		1 9 2 2	
		Quantity	Cost Value	Quantity	Cost Value
Bituminous coal	ton	69,427	666,560	60,687	499,732
Anthracite coal	"	6,899	54,999	2,940	24,663
Lignite coal ..	"	3,272	12,678	10,796	32,083
Coke	"	2	28	-	-
Gasoline	gal.	37,683	14,788	36,057	13,249
Oil (fuel)	"	164	22	-	-
Wood	cu. ft.	3,491	15,531	1,645	8,121
Gas	m.c.ft.	1,252	626	3,035	664
Other fuel	-	-	-	-	3,553
TOTAL			765,232		582,070

POWER INSTALLATION

The number of units and the horsepower capacity according to manufacturers' rating of each class of power installed for the calendar years 1921 and 1922 will be found in Table VIII. Electricity was the principal motive power during both years. There were 772 motors with a rated capacity of 6,750 horsepower in use during 1921, whilst the following year only 763 with a capacity of 7,066 horsepower were required. 59 additional steam engines were employed during 1922, giving an increased capacity of 776 horsepower.

Table VIII.- Power Installed, 1921-1922

Classes of Power	1 9 2 1		1 9 2 2	
	Units	Capacity	Units	Capacity
Steam engines and turbines....	No. 60	H.P. 5,401	No. 119	H.P. 5,177
Gas engines	-	-	1	35
Electric motors	772	6,750	763	7,066
Electric generators or dynamos	11	K.V.A. 841	-	-
Other power	60	482	-	-
TOTAL	903	13,474	883	13,258

MISCELLANEOUS EXPENSES

The miscellaneous expenses or overhead charges are shown in Table IX for the calendar years 1921 and 1922. There was a slight increase in this item over the two year period amounting to \$134,396. Changes in the general schedule for 1922 released manufacturers from the necessity of itemizing their expenses for that year.

Table IX.- Miscellaneous Expenses, 1921-1922

Items of Expense	1921	1922
Rent of offices, works and machinery	\$ 45,329) \$ 7,705,470
Rent of power	70,018	
Insurance (premiums for the year only) ..	208,367	
Taxes, all kinds	3,152,739	
Royalties, use of patents, etc.....	492	
Advertising expenses	358,714	
Travelling expenses	210,739	
Repairs to buildings and machinery	451,239	
All other sundry expenses	3,072,937	
TOTAL	7,571,074	

THE BREWING INDUSTRY IN CANADA, 1921-1922.IMPORTS AND EXPORTS

The quantity and value of ale, porter, beer, etc. imported and exported for the calendar years 1921 and 1922 is shown by countries in Table X.

Table X(a).- Imports, 1921-1922

Articles Imported	United Kingdom		United States		Other Countries	
	Quan. Gal.	Value \$	Quan. Gal.	Value \$	Quan. Gal.	Value \$
<u>1921</u>						
Ale, beer, etc. in bottles	47,895	116,290	3,615	6,325	303	376
Ale, beer, etc. in casks	972	1,047	-	-	-	-
TOTAL	48,867	117,337	3,615	6,325	303	376
<u>1922</u>						
Ale, beer, etc. in bottles	48,921	111,957	1,529	2,266	1,638	2,065
Ale, beer, etc. in casks	-	-	-	-	-	-
TOTAL	48,921	111,957	1,529	2,266	1,638	2,065

Table X(b).- Exports, 1921-1922

Articles Exported	United Kingdom		United States		Other Countries	
	Quan. Gal.	Value \$	Quan. Gal.	Value \$	Quan. Gal.	Value \$
<u>1921</u>						
Ale, beer, porter	6	7	195,498	439,296	202,586	214,731
<u>1922</u>						
Ale, beer, porter ...	3,037	4,128	1,204,387	2,414,278	150,099	155,359



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