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THE BISCUIT & CONFECTIONERY INDUSTRY

in

CANADA

1921

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Minister of Trade and Commerce.

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DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

OTTAWA, CANADA.

Dominion Statistician: R. H. Coats, B.A., F.S.S.
 Chief, Census of Industry: J. C. Macpherson

THE BISCUIT AND CONFECTIONERY INDUSTRY IN CANADA, 1921.

Ottawa, May, 1923.- The manufacture of biscuits and confectionery for the calendar year 1921 is presented by the Dominion Bureau of Statistics in the series of tables accompanying. The number of individual plants reporting to the Bureau was 372, located by provinces as follows:- Alberta, 26; British Columbia, 46; Manitoba, 24; New Brunswick, 10; Nova Scotia, 9; Ontario, 207; Prince Edward Island, 4; Quebec, 38 and Saskatchewan, 8. This is a decrease of 28 operating plants as compared with 1920, of which the Province of Ontario contributed 18, Quebec, 9; Saskatchewan, 5; British Columbia, 3; Alberta, 2 and Nova Scotia, 1. The Province of Manitoba increased by 7, Prince Edward Island by 2 and New Brunswick by 1.

PRINCIPAL STATISTICS

Table 1 gives the principal statistics of the industry by provinces for the calendar year 1921. Decreases appear in every item on the schedule, when compared with 1920. The decrease in the number of establishments reporting was 28 as above mentioned; capital decreased by \$561,992, the number of employees by 1,436, salary and wage payments by \$801,502, fuel costs by \$46,369, miscellaneous expenses by \$142,119, the cost of raw and partly manufactured materials by \$8,338,982 and the value of production by \$7,900,819. The large decreases in materials and products are due to the decline in the prices of commodities since 1920, as the following statement comprising the principal materials used in the industry indicates.

Commodity Prices Compared 1920 and 1921.

Materials	Unit	Average Price		Decrease	
		1920	1921	per bbl. doz. or lb.	Per cent
Flour	bbl.	\$ 11.029	\$ 8.170	\$ 2.859	25.9
Sugar	lb.	.148	.089	.059	40.0
Lard	lb.	.234	.162	.072	30.8
Butter	lb.	.551	.407	.144	26.1
Eggs	doz.	.562	.388	.174	30.9
Glucose	lb.	.075	.045	.030	40.0
Cocoa butter	lb.	.403	.302	.101	25.0
Chocolate	lb.	.303	.237	.066	21.8
Cocoanut	lb.	.289	.199	.090	31.1

The percentages of decrease in commodity prices in 1921, as shown in the preceding table, varied from 21.8 per cent for chocolate to 40.0 per cent for sugar and glucose.

THE BISCUIT AND CONFECTIONERY INDUSTRY IN CANADA, 1921.PRINCIPAL STATISTICS, continued

Table 1 - Principal Statistics of the Industry, 1921.

Provinces	Establishments	Capital	Employees	Salaries and Wages	Cost of Materials	Value of Products
	No.	\$	No.	\$	\$	\$
CANADA	372	30,655,589	11,286	9,736,789	22,600,821	46,758,014
Alberta	26	796,473	260	253,037	697,348	1,356,012
Br. Columbia .	46	1,277,233	478	480,915	919,828	1,845,956
Manitoba	24	1,013,184	547	543,794	1,383,447	2,474,338
New Brunswick	10	1,829,965	662	563,201	1,338,852	2,828,506
Nova Scotia .	9	1,725,513	1,108	826,707	1,447,460	3,577,463
Ontario	207	17,936,774	5,637	5,210,921	11,918,818	25,296,813
P. E. Island .	4	27,592	8	5,081	20,060	31,140
Quebec	38	6,008,233	2,566	1,827,948	4,838,710	9,268,470
Saskatchewan .	8	40,622	18	25,185	36,298	79,316

PRODUCTION

The statistics of production are presented in table 2 for the Dominion and the provinces. The principal items of production as indicated by the name of the industry, viz: biscuits and confectionery, including ice cream, represented 94.2 per cent of the total value of production in the entire industry; bread, buns and pastry, 3.5 per cent and all other products 2.3 per cent. Though the tonnage of biscuits showed an increase of 9,609 tons over 1920, there was a decrease in the total value of production of \$1,961,218. The per capita production in the case of biscuits, confectionery and ice cream expressed in terms of quantity and value is shown for the years 1919, 1920 and 1921 as follows:-

Per Capita Production, 1919-20-21.

Items	Unit	1919		1920		1921	
		Quan.	\$	Quan.	\$	Quan.	\$
Biscuits	lb.	8.73	1.78	5.73	1.89	7.62	1.68
Confectionery ...	lb.	13.30	3.96	11.81	3.88	10.15	3.09
Ice cream	gal.	.63	.84	.67	.98	.62	.87

The next table shows as far as possible the per capita consumption of biscuits, confectionery and ice cream for the calendar years 1919, 1920 and 1921, based on estimated populations in round numbers of 8,400,000, 8,600,000 and 8,800,000 respectively. These figures are obtained by adding together the manufactures and imports and deducting therefrom the exports.

Per Capita Consumption, 1919-20-21.

Items	Unit	1919		1920		1921	
		Quan.	\$	Quan.	\$	Quan.	\$
Biscuits	lb.	8.26	1.78	5.75	1.90	7.83	1.73
Confectionery ...	lb.	-	3.13	-	3.65	-	3.04
Ice cream	gal.	.63	.84	.67	.98	.62	.87

THE BISCUIT AND CONFECTIONERY INDUSTRY IN CANADA, 1921.

PRODUCTION, continued

Table 2 - Production Statistics by Items and Provinces, 1921.

Products	CANADA		Alberta		British Columbia		Manitoba		New Brunswick	
	Quantity	Value	Quan.	Value	Quan.	Value	Quan.	Value	Quan.	Value
Bread lb.	5,839,753	438,083	-	-	-	-	-	-	-	-
Buns	-	144,783	-	-	-	-	-	4,680	-	-
Pies, cakes, etc. -	-	1,045,149	-	8,000	-	1,960	-	8,885	-	-
Biscuits, plain & fancy ton	33,661	14,051,997	1,956	931,025	902	359,751	2,101	630,010	1,944	724,456
Puddings	-	17,870	-	-	-	-	-	2,184	-	8,597
Confectionery, all kinds lb.	874,35,629	26,500,527	1,020,444	410,807	3,564,068	884,126	5,924,515	1,678,088	7,322,798	1,784,068
Ice cream gal.	2,339,573	3,492,138	2,200	2,200	293,481	474,343	35,840	63,288	124,341	211,385
Cocoa lb.	135,665	39,481	-	-	-	-	-	-	-	-
All other products ...	-	1,027,986	-	3,980	-	125,776	-	87,203	-	100,000
TOTALS		46,758,014		1,356,012		1,845,956		2,474,338		2,828,506

	Nova Scotia		Ontario		P. E. Island		Quebec		Saskatchewan	
	Quan.	Value	Quan.	Value	Quan.	Value	Quan.	Value	Quan.	Value
Bread lb.	5,134,021	388,239	443,966	34,138	-	-	261,766	15,706	-	-
Buns	-	-	-	13,715	-	-	-	124,388	-	2,000
Pies, cakes, &c. -	-	458,869	-	550,315	-	-	-	14,720	-	2,400
Biscuits, plain & fancy ton	484	154,848	17,794	8,068,813	-	-	8,458	3,174,294	22	8,800
Puddings	-	-	-	4,479	-	-	-	2,610	-	-
Confectionery, all kinds ... lb.	9,223,131	2,316,371	43,280,347	13,690,977	22,460	5,450	17,985,408	5,687,599	87,458	43,041
Ice cream gal.	122,626	195,538	1,718,619	2,463,666	18,350	25,690	16,391	37,953	7,725	18,075
Cocoa lb.	-	-	-	-	-	-	135,665	39,481	-	-
All other products ..	-	63,598	-	470,710	-	-	-	171,719	-	5,000
TOTALS		3,577,463		25,296,813		31,140		9,268,470		79,316

THE BISCUIT AND CONFECTIONERY INDUSTRY IN CANADA, 1921.

CAPITAL INVESTED

The amount of capital invested in the industry is shown by items and provinces in table 3. There is a decrease in the total investment, when compared with 1920 amounting to \$561,992 partly due to the decrease in the number of plants reporting and partly to the drop in commodity prices. Land, buildings, etc. together with Machinery and tools show an increase over the previous year of \$726,388, whilst the remaining items show decreases totalling \$1,288,380. More than 53 per cent of the entire capital is accredited to Ontario and nearly 20 per cent to Quebec, the Maritime provinces following with 11.5 per cent and the Western provinces with 10.2 per cent.

Table 3. Capital Investment.

Provinces	Land, buildings and fixtures	Machinery and tools	Materials on hand, stocks in process, etc.	Cash, trading and operating accts. etc.	Total Capital
CANADA	10,479,053	7,247,723	5,953,868	6,969,945	30,655,589
Alberta	326,042	164,337	155,288	150,806	796,473
Br. Columbia	406,615	307,064	261,067	302,487	1,277,233
Manitoba	305,341	210,738	306,195	190,910	1,013,184
New Brunswick	432,417	342,840	496,272	558,436	1,829,965
Nova Scotia	292,398	409,989	488,847	534,279	1,725,513
Ontario	6,276,327	4,873,487	3,101,534	3,685,426	17,936,774
P. E. Island	8,787	15,365	1,623	317	27,592
Quebec	2,414,036	914,803	1,135,010	1,544,384	6,008,233
Saskatchewan	17,090	7,600	13,032	2,900	40,622

EMPLOYEES, SALARIES AND WAGES

The statistics of employment by classes and the amounts paid to each class is shown by sex in table 4. The number of salaried employees and the amount paid in salaries were practically the same as in 1920, whilst the number of persons working for wages showed a decrease of 1,427 and the wages paid for labour a decrease of \$797,056. Of the 1,427 decrease in the number of employees on wages, 293 were males and 1,134 were females. The average of salaries paid to all classes irrespective of sex in 1921 was \$1,636, and similarly the average wage paid was \$727.50.

Table 4. Employees, Salaries and Wages, 1921.

Classes of Employment	Male No.	Female No.	Salaries and
			Wages
Salaried officers of corporations	144	9	594,151
General superintendents & managers	173	19	442,042
Technical experts, accountants, etc.	59	10	106,498
Clerks, stenographers, salesmen, etc.	920	376	1,654,850
Employees on wages, average number	4,170	5,365	6,936,458
Outside piece-workers	29	12	2,790
TOTALS	5,495	5,791	9,736,789

THE BISCUIT AND CONFECTIONERY INDUSTRY IN CANADA, 1921.

CLASSIFIED WEEKLY WAGES

Another review of employment is presented in table 5 by provinces, according to classified weekly earnings, and by sex, as at December 15th or nearest representative date. The number of males under 16 years of age numbered 117 in a total of 4,638 or a little more than 2½ per cent, while the females under 16 were 395 in number in a total of 6,222 or approximately 6.35 per cent. The number receiving less than \$5 per week represented 2 per cent of the total of all employees, those receiving \$5 but under \$10 per week were 23.4 per cent; those receiving \$10 but under \$20 per week, 53.6 per cent; those receiving \$20 but under \$30 per week, 15.9 per cent; those receiving \$30 but under \$40 per week, 4.4 per cent and those receiving \$40 per week and over, seven-tenths of one per cent.

Table 5. Classified Weekly Wages of Employees, 1921.

Provinces	Under \$5 per week		\$5 to under \$10 per wk.		\$10 to under \$20 per week		\$20 to under \$30 per week		\$30 to under \$40 per week		\$40 to under \$50 per week		\$50 per wk and over		Total	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Male	Female
	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
CANADA	71	142	394	2,149	2,020	3,803	1,605	127	472	1	56	-	13	-	4,638	6,222
Alberta	5	-	9	28	29	122	30	5	18	1	2	-	3	-	95	156
B.C. Columbia	2	-	4	19	67	211	72	4	33	-	8	-	1	-	187	234
Manitoba	-	1	6	61	55	222	73	3	32	-	8	-	2	-	181	292
New Brunswick	1	-	31	222	107	124	78	6	-	-	-	-	-	-	223	352
Nova Scotia	1	23	32	453	255	260	168	1	36	-	6	-	-	-	496	742
Ontario	23	26	137	413	1,001	2,481	949	94	209	-	21	-	4	-	2,314	3,014
P.E. Island	1	-	1	1	3	-	-	-	-	-	-	-	-	-	5	1
Quebec	37	92	173	947	502	382	226	9	141	-	10	-	3	-	1,092	1,430
Saskatchewan	1	-	2	-	3	1	4	-	4	-	1	-	-	-	15	1

THE BISCUIT AND CONFECTIONERY INDUSTRY IN CANADA, 1921.

MATERIALS

The classes of materials used in the industry in 1921 are shown by provinces, quantities and cost values delivered at the factory in table 6. The total cost of materials used during the year was \$22,600,821, and represented 48.33 per cent of the value of production. Under the head of principal statistics will be found a summary table showing the cost price at the factory of the chief commodities used in the industry. Ontario consumed 52.8 per cent of the materials used, Quebec 21.4 per cent, the Maritime provinces 12.4 per cent and the Western provinces 13.4 per cent.

Table 6. Materials Used, 1921.

Materials	CANADA		Alberta		British Columbia		Manitoba		New Brunswick		
	Quantity	Value	Quan.	Value	Quan.	Value	Quan.	Value	Quan.	Value	
Fleur	bbl.	274,508	2,243,096	16,227	136,974	7,023	53,082	16,175	159,151	15,764	136,101
Melt	lb.	15,528	2,255	-	-	-	-	500	75	331	50
Yeast	lb.	104,757	28,317	2,560	922	1,623	636	910	393	253	88
Salt	bbl.	12,453	44,460	167	1,163	567	2,131	629	2,406	229	1,164
Sugar	lb.	58,586,251	5,203,389	1,090,770	111,507	2,868,250	190,486	3,550,806	308,571	4,259,180	378,316
Butter	lb.	945,270	384,890	28,557	6,923	28,776	11,553	73,367	27,765	24,467	9,245
Lard	lb.	5,531,420	895,916	301,088	52,225	222,386	41,672	520,029	113,880	292,735	52,478
Cream	gal.	696,622	932,990	2,640	4,457	117,175	159,228	18,980	31,410	22,964	28,496
Milk - fresh	gal.	600,245	124,733	936	327	23,357	10,666	2,362	972	9,763	1,485
condensed ..	lb.	870,367	103,946	11,266	1,879	21,076	2,937	11,422	1,493	40,789	5,853
powdered ..	lb.	1,994,867	323,688	7,550	1,553	77,524	10,331	15,337	3,514	38,247	10,390
Eggs	doz.	502,262	193,070	18,417	2,236	4,842	2,486	23,289	9,096	7,112	2,851
Fruits	lb.	3,106,973	634,727	93,607	14,320	93,232	15,704	94,490	22,260	115,066	21,540
Extracts and flavourings ..	-	-	249,945	-	6,740	-	10,950	-	13,124	-	12,595
Glucose	lb.	20,893,225	940,132	333,217	20,409	706,704	39,008	2,354,543	112,138	1,466,282	56,364
Syrups	gal.	225,611	123,681	7,627	4,213	2,251	2,098	4,929	3,979	5,506	3,639
Chocolate	lb.	8,595,587	2,033,956	294,934	81,782	360,540	92,788	329,177	176,990	562,534	101,491
Cocoanut	lb.	1,521,874	304,111	43,346	8,837	38,029	7,327	116,435	20,609	124,755	35,542
Cocoa butter	lb.	3,663,025	1,104,958	28,819	7,109	25,782	7,443	12,680	4,318	267,611	80,467
Nuts	lb.	17,007	3,683	14,039	2,179	-	-	-	-	-	-
Cocoa beans	lb.	1,232,940	145,297	-	-	-	-	-	-	-	-
Boxes, cases, labels, etc...	-	-	2,418,625	-	149,452	-	125,752	-	200,032	-	137,437
All other materials	-	-	4,155,956	-	82,060	-	133,490	-	170,456	-	263,260
TOTALS			22,600,821		697,348		919,828		1,383,447		1,338,852

THE BISCUIT AND CONFECTIONERY INDUSTRY IN CANADA, 1921.

MATERIALS, continued

Table 6. Materials Used, continued

Materials	Nova Scotia		Ontario		P.E. Island		Quebec		Saskatchewan	
	Quan.	Value	Quan.	Value	Quan.	Value	Quan.	Value	Quan.	Value
Flour btl.	28,068	262,332	122,067	993,067	-	-	68,959	501,699	102	690
Malt lb.	577	84	11,785	1,696	-	-	2,335	350	-	-
Yeast lb.	77,831	19,201	19,976	6,402	-	-	1,354	474	190	76
Salt bbl.	1,553	3,841	8,318	30,085	90	255	887	3,360	13	55
Sugar lb.	4,507,741	421,667	28,079,966	2,475,347	35,188	3,116	15,128,150	1,308,231	66,200	6,143
Butter lb.	179,265	68,399	513,443	223,570	160	72	91,211	34,883	6,024	2,470
Lard lb.	328,637	49,537	2,281,437	347,372	-	-	1,583,906	238,375	1,202	377
Cream gal.	19,316	28,281	476,457	627,457	10,068	12,924	22,679	41,327	6,353	9,300
Milk - fresh ... gal.	32,319	8,919	419,096	79,455	-	-	108,073	20,739	4,324	2,170
condensed 1b.	173,803	19,958	549,783	64,303	1,176	188	60,987	7,319	65	16
powdered 1b.	65,917	12,030	1,718,250	270,223	5,194	1,038	65,938	14,154	910	455
Eggs doz.	102,305	40,935	261,961	107,090	75	30	65,945	25,669	5,316	1,877
Fruits lb.	270,993	47,070	1,881,376	435,954	-	-	551,684	77,574	1,525	305
Extracts and flavourings	-	44,181	-	107,577	-	316	-	54,096	-	366
Glucose 1b.	1,340,031	54,979	8,799,371	312,572	5,492	303	5,869,085	343,216	18,500	1,143
Syrups gal.	7,776	10,979	159,808	78,271	4	4	37,110	24,298	600	1,200
Chocolate lb.	863,559	101,703	4,403,121	1,147,310	234	65	1,269,603	327,761	11,885	4,065
Cocoanut 1b.	69,926	27,616	671,901	137,734	1,200	500	464,982	65,563	800	183
Cocoa butter ... 1b.	506,247	152,547	1,925,152	602,131	100	45	896,534	250,873	50	25
Nuts lb.	-	-	2,778	1,409	-	-	-	-	190	95
Cocoa beans ... 1b.	-	-	-	-	-	-	1,232,940	145,297	-	-
Boxes, cases and labels	-	45,776	-	1,277,978	-	225	-	481,953	-	-
All other materials ..	-	27,125	-	2,601,795	-	979	-	871,499	-	5,282
TOTALS		1,447,460		11,918,818		20,060		4,838,710		36,298

THE BISCUIT AND CONFECTIONERY INDUSTRY IN CANADA, 1921.FUEL CONSUMPTION

The consumption of fuel in the industry is shown by classes, quantity and value at factory in table 7. Coal, coke and gas are the principal fuels used and together amounted to \$653,803 or a little more than 95 per cent of all fuel. A classification of the fuels used according to country of origin is shown below:-

Kinds of fuel	Unit of measure	Canadian origin		Foreign origin	
		Quantity	Value	Quantity	Value
Coal, total ...	ton	19,117	\$179,454	31,870	333,680
Bituminous ..	ton	18,246	170,931	22,474	197,628
Anthracite ..	ton	-	-	9,391	135,970
Lignite	ton	871	8,523	5	82
Coke	ton	3,868	43,215	6	104
Gas	m.c.ft.	123,991	97,350	-	-
Gasoline	gal.	60,735	21,330	8,878	3,553
Oil, fuel	gal.	9,809	1,121	-	-
Wood	cd.	1,041	6,545	-	-
All other fuel	-	-	852	-	20
TOTALS			349,867		337,357

From the above it will be seen that 53.5 per cent of all fuel was of Canadian origin and 46.5 per cent of foreign origin.

Table 7. Fuel Consumption, 1921.

Classes of fuel	Unit of measure	Quantity	Cost value
Bituminous coal	ton	40,720	\$368,559
Anthracite coal	ton	9,391	135,970
Lignite coal	ton	876	8,605
Coke	ton	3,874	43,319
Gasoline	gal.	69,613	24,883
Oil (fuel)	gal.	9,809	1,121
Wood	ed.	1,041	6,545
Gas	m.c.ft.	123,991	97,350
Other fuel	-	-	872
TOTAL			687,224

POWER EMPLOYED

The power employed in the industry is shown in table 8 by (a) classes of power, (b) the number of units in each class, (c) the horsepower according to manufacturers rating and (d) the horsepower actually employed. Electric motors was the chief source of power with a total of 10,500 indicated horsepower, of which 7,863 were actually employed. Steam power is next with 2,756 indicated horsepower of which 2,439 were actually used. These two classes of power furnish 94.3 per cent of the total of all power used.

Table 8. Power Employed, 1921.

Classes of Power	Unit	H. P. Capacity	H. P. actually employed
Engines - steam	34	2,756	2,439
gas	6	49	49
gasoline	3	5	5
Hydraulic turbines or water wheels	2	250	250
Electric motors -			
Alternating current ..	1,167	9,601	7,189
Direct current	152	899	674
Generators or dynamos -			
Alternating current ..	7	103	85
Direct current	5	238	183
Other power	6	53	51
TOTALS	1,382	13,954	10,925

THE BISCUIT AND CONFECTIONERY INDUSTRY IN CANADA, 1921.MISCELLANEOUS EXPENSES

The cost of "overhead" or "miscellaneous expenses" is shown in table 9 by items and amounted to \$7,276,865 in 1921, as compared with \$7,418,984 in 1920. The largest individual item is "all other sundry expenses" which is a term used to include such items as light, heat, postage and stationery, office furniture and supplies, freight and express charges, bad debts, interest and discount and depreciation and any other expenses of such a character not already enumerated.

Table 9. Miscellaneous Expenses, 1921.

Items of Expenses	Amount
Rent of offices, works and machinery	227,295
Rent of power	156,470
Insurance (premium for year only) ...	224,209
Taxes, all kinds	817,982
Royalties, use of patents, etc.....	5,663
Advertising expenses	451,195
Travelling expenses	686,109
Repairs to buildings and machinery ..	494,155
All other sundry expenses	4,213,787
TOTAL	7,276,865

IMPORTS AND EXPORTS

The quantity and value of biscuits and confectionery imported into Canada for consumption is shown by principal countries in table 10(a) and the exports of goods being the produce of Canada in table 10(b). The figures as presented in the tables are for the calendar year 1921.

Table 10(a). Imports, calendar year 1921.

Articles Imported	Total Imports	United Kingdom		United States		Other Countries	
		Quan.	Value	Quan.	Value	Quan.	Value
Biscuits, not sweetened	\$ 84,232	307,427	32,046	269,726	39,683	103,091	12,503
Biscuits, sweetened	65,640	122,297	47,680	43,476	11,133	22,314	6,827
Chocolate, confectionery	114,185	37,280	21,326	109,013	49,859	83,009	43,300
Sugar candy .	603,860	1,287,733	334,598	691,253	133,317	157,864	35,945
TOTALS	\$ 768,217	1,754,737	435,650	1,113,468	233,992	366,278	98,575

Table 10(b) Exports

Articles Exported	Total Exports	United Kingdom		United States		Other countries	
		Quan.	Value	Quan.	Value	Quan.	Value
Biscuits and bread	\$ 96,319	-	-	1,750	18,389	4,100	77,930
Confectionery (value only) .	370,749	-	33,005	-	15,051	-	322,693
TOTALS	467,068		33,005		33,440		400,623

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