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CENSUS OF INDUSTRY

REPORT

on the

MISCELLANEOUS VEGETABLE PRODUCTS

in

CANADA

1921 and 1922

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

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OTTAWA

1924

DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
OTTAWA, CANADA.

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

MISCELLANEOUS VEGETABLE PRODUCTS IN CANADA

1921 and 1922

Ottawa, July, 1924.- The Dominion Bureau of Statistics presents herewith a combined report on certain specified industries whose principal products are of a miscellaneous nature and of vegetable origin. Included amongst these industries are: malt mills, rice mills, ice cream cone factories, prepared breakfast food, stock and poultry food and prepared grain food plants, nut and hop preparing plants, shortening and yeast factories. There were less than three establishments reporting operations in some of these industries, therefore in order to prevent the disclosure of information concerning individual establishments it has been necessary to combine them and they are shown in the tables throughout this report as "Various food products" and "Vegetable products, n.e.s.". A summary of the principal statistics of these various industries is given in Table 1.

Table 1. Principal Statistics 1921-1922.

Nature of Industry	Establishments	Capital	Employ ^t ees	Salaries & Wages	Cost of Materials	Value of Products
<u>1921</u>						
Malt Mills	7	\$ 2,246,223	181	\$ 306,892	\$ 2,019,577	\$ 2,793,417
Rice mills	6	1,049,418	51	88,566	964,100	1,245,765
Ice Cream Cones	11	375,945	124	117,923	355,731	711,563
Various food products *	42	4,818,912	558	677,813	2,631,048	4,898,471
Vegetable products n.e.s.	4	1,752,885	154	223,191	1,101,396	1,744,377
TOTAL	70	10,243,383	1,068	1,414,385	7,071,852	11,393,593
<u>1922</u>						
Malt mills	6	2,183,282	174	369,752	1,372,301	2,416,686
Rice mills	7	1,177,521	76	119,200	1,287,754	1,530,086
Ice Cream Cones	10	637,697	104	90,544	138,411	385,257
Various food products *	47	5,389,742	739	916,165	3,059,601	6,247,262
Vegetable products, n.e.s. 2	8	2,840,892	267	330,840	2,126,757	3,100,498
TOTAL	78	12,229,134	1,360	1,826,501	7,984,824	13,679,789

- * Includes in 1921: 9 prepared breakfast foods, 21 stock and poultry foods, 4 prepared grain foods and 8 nut preparations.
- * Includes in 1922: 12 prepared breakfast foods, 23 stock and poultry foods, 3 prepared grain foods and 9 nut preparations.
- 2. includes in 1921: 2 shortening, 1 yeast and 1 other vegetable prods.
- 2. includes in 1922: 4 shortening, 2 yeast, 1 hops, and 1 other vegetable products.

MISCELLANEOUS VEGETABLE PRODUCTS IN CANADA, 1921-1922.PRODUCTION

Reference to Table II gives the quantity and value of the principal products of the various industries for the calendar years 1921 and 1922. A comparison of the total value of all products reported in 1922 with those of the previous year shows that there was a considerable increase amounting to \$2,286,196, during the period covered by this report.

Table II. Principal products, 1921 and 1922

Principal Products by Industries	1921		1922	
	Quantity	Value	Quantity	Value
<u>Malt Mills:-</u>				
Malt made for sale.....bu.	2,339,125	2,535,822	2,299,117	2,144,035
Malt extract thick.....lb.	1,427,578	199,870	1,834,660	230,160
Malt flour.....lb.	328,981	41,817	298,904	32,385
Grains.....	-	4,263	-	5,000
Yeast.....	-	11,561	-	-
All other products.....	-	84	-	5,106
TOTAL...		2,793,417	-	2,416,686
<u>Rice Mills:-</u>				
Rice cleaned and polished ton	11,038	1,224,895	14,339	1,431,803
Broken rice and flour...lb.	-	-	675,768	20,843
Rice meal.....lb.	-	-	1,149,295	42,598
Rice milled.....ton	-	-	175	22,400
Offal.....	-	19,511	-	12,442
Amount received for custom work.....	-	1,359	-	-
TOTAL...		1,245,765	-	1,530,086
<u>Ice Cream Cones:-</u>				
Ice cream cones, boxes of 100.....1,910,837		624,358	1,361,370	371,168
Popcorn.....lb.	336,535	77,813	3,500	700
Candy confectionery.....lb.	9,777	5,342	15,882	5,000
Marshmallow cones.....boxes	4,500	4,050	-	-
Paper boxes.....No.	-	-	294,585	8,039
All Other Products.....	-	-	-	350
TOTAL...		711,563		385,257
<u>Various food products:-</u>				
Assorted breakfast foods -	-	2,830,631	-	3,553,518
Stock and poultry foods -	-	1,148,204	-	1,734,921
Flour, self-raising and prepared.....lb.	3,384,616	242,586	3,322,792	188,687
Peanut butter.....lb.	1,298,468	255,422	1,247,850	246,301
Peanuts, salted.....lb.	-	-	138,796	29,963
" roasted.....lb.	191,637	50,754	91,800	14,688
Cocoanut shredded.....lb.	689,189	155,806	147,000	34,500
Almond paste.....	-	-	-	75,240
All other products.....	-	215,068	-	369,444
TOTAL...		4,898,471		6,247,262
<u>Vegetable Products, n.e.s.: -</u>				
Shortening, cooking and salad oils.....lb.	5,480,412	856,034	14,335,242	1,756,302
Yeast and yeast food....lb.	3,759,064	518,238	4,750,986	582,274
Hops prepared.....lb.	-	-	831,050	309,619
Salad dressing.....gal.	8,000	32,000	-	-
Washing powders.....lb.	1,884,022	173,895	2,023,391	174,214
All other products.....	-	164,210	-	278,089
TOTAL...		1,744,377		3,100,498
TOTAL MISCELLANEOUS VEGETABLE PRODUCTS	11,393,593			13,679,789

MISCELLANEOUS VEGETABLE PRODUCTS IN CANADA, 1921-22CAPITAL INVESTMENT.

The total capital employed in the various industries is given by items in Table III for the calendar years 1921 and 1922. There was a noticeable expansion in capital during the two years under review, the net increase in valuation amounting to \$1,985,751. There were increases in four out of the five groups of industries, the exception being Malt mills, which fell from \$2,246,223 in 1921 to \$2,183,282 in 1922, which may be attributed to the fact that there was one less mill reported for the latter year.

Table III. Capital employed by industries, 1921-22.

Industries	Land, buildings and fixtures	Machinery and tools	Materials on hand stocks in process	Cash, trading and operating accts. etc.	Total Capital
<u>1921</u>					
Malt mills	818,023	754,308	583,058	90,834	2,246,223
Rice mills	334,741	101,773	361,020	201,884	1,049,418
Ice cream cones	106,646	118,234	87,425	63,640	375,945
Various food products	799,700	733,464	884,019	2,401,729	4,815,912
Vegetable products, n.e.s.	337,892	530,454	551,127	333,412	1,752,885
TOTAL	2,447,002	2,238,233	2,466,649	3,091,499	10,243,383
<u>1922</u>					
Malt mills	1,021,561	528,332	532,757	100,632	2,183,282
Rice mills	411,323	108,014	262,027	396,157	1,177,521
Ice cream cones	200,310	291,146	63,476	82,765	637,697
Various food products	1,249,935	1,060,428	925,267	2,154,112	5,389,742
Vegetable products, n.e.s.	1,060,978	304,862	698,841	683,841	2,840,892
TOTAL	3,944,107	2,692,782	2,174,738	3,417,507	12,229,134

4.
MISCELLANEOUS VEGETABLE PRODUCTS IN CANADA; 1921-1922

EMPLOYEES, SALARIES AND WAGES

The number of persons employed in the five industries will be found in Table IV by classes of employment, sex and salary and wage payments, for the calendar years 1921 and 1922. The total of all employees rose from 1,068 in 1921 to 1,360 the following year, a gain of 292. The payroll also was considerably larger, an additional \$412,116 being required during the year 1922. Each industry contributed a certain proportion of this amount with the exception of the establishments manufacturing ice cream cones, who with one less factory in operation, had fewer employees, viz., 20, and their annual payroll for 1922 was reduced by \$27,379.

Table IV.-Employees, Salaries and Wages by Industries, 1921-22.

Classes of employment by industries	1921		1922		Salaries and wages
	Male	Fe- male	Male	Fe- male	
<u>Malt Mills:-</u>					
Salaried officers of corporations	5	1	22,809	8	55,299
General Supts. and managers	6	-	12,003	3	7,815
Technical experts, chemists, &c	1	-	3,295	2	3,951
Clerks, stenographers, salesmen	7	4	19,840	19	58,989
Employees on wages, av.no. 153	4		248,945	129	243,798
TOTAL	172	9	306,392	161	369,752
<u>Rice Mills:-</u>					
Salaried officers of corporations	8	-	40,900	9	32,945
General supts. and managers	2	-	4,800	6	22,925
Technical experts, chemists, etc.	1	-	2,700	2	4,500
Clerks, stenographers, salesmen, etc.	2	-	3,500	7	14,698
Employees on wages, av.no. 34	-		33,738	45	41,240
Outside piece-workers	4	-	2,928	4	2,892
TOTAL	51	-	88,566	73	119,200
<u>Ice Cream Cones:-</u>					
Salaried officers of corporations	3	-	10,028	2	2,500
General supts. managers	7	-	13,110	7	12,590
Technical experts, chemists, etc.	5	1	7,530	1	820
Clerks, stenographers, salesmen, etc.	2	3	2,354	4	5,366
Employees on wages, average no.	58	45	84,901	60	69,268
TOTAL	75	49	117,923	74	90,544
<u>Various Food Products:-</u>					
Salaried officers of corporations	15	-	42,314	30	81,385
General supts. managers	33	1	87,932	38	93,296
Technical experts, chemists, etc.	9	1	11,753	12	17,222
Clerks, stenographers, salesmen	64	45	141,305	108	188,297
Employees on wages, average no.	263	127	394,509	348	535,965
TOTAL	384	174	677,813	529	916,165
<u>Vegetable Products H.e.s</u>					
Salaried officers of cors.	3	-	12,583	1	2,650
Gen. supts. managers	3	-	10,800	10	29,518
Tech. experts, Chem. etc.	3	-	8,100	7	17,405
Clerks, stenographers, etc.	38	5	70,746	55	80,690
Employees on wages av.no.	89	13	120,962	159	200,577
TOTAL	136	18	223,191	232	330,840
TOT. EMPLOYEES &c in MISCELLANEOUS VEGETABLE PRODS.	818	250	1,414,385	1,069	291
					1,826,501

MISCELLANEOUS VEGETABLE PRODUCTS IN CANADA, 1921 - 1922.

OTHER LABOUR STATISTICS

The number of days each factory, in the various industries was in operation together with the number of hours per day and per week, normally worked by wage earners is given in Table V for the calendar year 1921 and 1922. The industry with the highest number of idle days was ice cream cones with 105.9 in 1921, and the lowest number was reported from vegetable products, n.e.s. in 1922 with 23.0 days. The average number of hours worked per day was highest in malt mills and ice cream cone factories in 1922 with 9.6 hours each and the lowest average recorded was from various food products plants in 1921 with 8.5 hours. The weekly hours of labour were longest in malt mills in 1922 with 58.0 hours and shortest in various food product factories in 1921 with 49.2 hours per week. For statistical purposes a year consists of 304 working days.

Table V. Other Labour Statistics by Industries, 1921 - 1922

Industries	Days in operation		Hours worked		Tot.	Avrge.	Tot.	Avrge.
	full and part time	idle	per day	per week				
<u>1921</u>								
1. Malt mills.....	1,666	238.0	462	66.0	66	9.44	361	51.6
2. Rice mills.....	1,268	211.3	556	92.7	55	9.1	321	53.5
3. Ice cream cones...	2,180	198.1	1,164	105.9	95	8.6	553	50.2
4. Various food prod.	10,961	261.0	1,807	43.0	357	8.5	2,068	49.2
5. Vegetable prods. n.e.s.....	1,085	271.2	131	32.8	37	9.2	209	52.2
<u>1922</u>								
1. Malt mills.....	1,526	254.3	298	49.7	58	9.6	348	58.0
2. Rice mills.....	1,484	212.0	644	92.0	64	9.1	371	53.0
3. Ice cream cones...	2,451	245.1	589	58.9	96	9.6	547	54.7
4. Various food prod.	12,348	262.7	1,940	41.3	415	8.8	2,398	51.0
5. Vegetable prods. n.e.s.....	2,247	281.0	185	23.0	74	9.2	417	52.1

1. 7 Establishments in 1921; 6 Establishments in 1922

2. 6 " in 1921; 7 " in 1922

3. 11 " in 1921; 10 " in 1922

4. 42 " in 1921; 47 " in 1922

5. 4 " in 1921; 8 " in 1922.

MISCELLANEOUS VEGETABLE PRODUCTS IN CANADA, 1921-22

MATERIALS USED

The quantity and value of the principal materials used in the various industries is given in Table VI for the calendar year 1921 and 1922. The variety of materials reported is so numerous that it is only possible to itemize a few of the more important materials.

Table VI. Principal Materials Used in the Industries 1921-22.

Principal Materials Used	Quantity	1921		1922	
		Value	Quantity	Value	Quantity
<u>Malt Mills:-</u>		\$		\$	
Barley for malting.....Bu.	2,351,023	1,917,185	2,092,062	1,271,186	
Malt purchased, including duty.....Bu.	48,104	82,422	2,228,080	66,468	
All other materials.....-	-	19,970	-	34,647	
TOTAL		2,019,577		1,372,301	
<u>Rice Mills:-</u>					
Rice in bulk uncleaned.....ton.	12,445	947,973	16,663	1,273,508	
Containers, bags, etc....-	6	13,709	-	12,234	
All other materials	-	2,418	-	2,012	
TOTAL		964,100	-	1,287,754	
<u>Ice Cream Cones:-</u>					
Flour.....bbl.	9,202	81,779	8,168	49,004	
Sugar.....lb.	65,434	6,839	80,598	5,428	
Glucose.....lb.	62,077	2,355	11,880	621	
Shortening.....lb.	30,521	4,369	33,089	5,018	
Containers, bags, etc....-	-	135,417	-	70,206	
All other materials	-	124,972	-	8,134	
TOTAL		355,731		138,411	
<u>Various Food Products:-</u>					
Wheat.....Bu.	500,017	470,486	279,122	365,276	
Stock and poultry food materials.....Bu.	-	594,281	-	950,578	
Flour.....bbl.	19,148	139,616	15,869	86,319	
Nuts, all kinds.....lb.	2,623,174	217,821	2,357,635	242,665	
Containers, bags, etc....-	-	163,978	-	776,656	
All other materials	-	1,044,806	-	638,107	
TOTAL		2,034,048		3,059,601	
<u>Vegetable Products, n.e.s:-</u>					
Cotton seed oil.....lb.	4,539,960	517,233	12,256,566	1,155,706	
Stearine.....lb.	689,959	93,528	561,392	68,322	
Vegetable oils.....lb.	-	-	1,807,174	137,291	
Malt(including duty).....lb.	580,800	16,772	1,421,290	39,732	
Yeast.....lb.	-	-	98,895	20,022	
Hops.....lb.	-	-	831,050	188,943	
Molasses.....lb.	4,120,480	81,258	4,444,440	57,995	
Beans.....bags.	-	-	241	1,878	
Starch.....-	-	27,374	-	19,728	
Soda ash.....lb.	721,200	17,940	775,667	17,351	
Caustic soda.....lb.	87,200	3,216	259,380	12,114	
Soap grease.....lb.	-	-	733,316	67,058	
Containers, bags, etc....-	-	189,801	-	252,701	
All other materials	-	154,274	-	87,916	
TOTAL		1,101,396		2,126,757	

TOTAL VALUE OF MATERIALS USED
MISCELLANEOUS VEGETABLE PRODS:

7,071,852

7,984,824

MISCELLANEOUS VEGETABLE PRODUCTS IN CANADA, 1921-22FUEL STATISTICS

The quantity and value of the different kinds of fuel consumed in the various industries is shown in Table VII for the calendar years 1921-1922. The expenditure on account of fuel of all kinds was less during 1922 than the previous year, the amount reported for 1921 being \$388,545, whilst the total for the following year was \$331,665, a reduction of \$56,880.

Table VII. Fuel Consumption by Industries, 1921-22

Kinds of fuel	Unit of measure	1921		1922	
		Quan.	Cost Value	Quan.	Cost Value
<u>Malt mills:-</u>					
Bituminous coal.....	ton.	3,272	26,039	10,728	90,386
Anthracite coal.....	ton.	7,879	103,439	1,651	21,506
Oil (fuel).....	gal.	-	-	12,900	1,913
Wood.....	cord.	5	40	-	-
TOTAL..			129,518		113,805
<u>Rice mills:-</u>					
Bituminous coal.....	ton	-	-	3	36
TOTAL..					36
<u>Ice Cream Cones:-</u>					
Bituminous coal.....	ton	-	-	6	60
Anthracite coal.....	ton	123	1,916	122	1,699
Gasoline.....	Gal.	-	-	2,199	703
Gas.....	m.c.ft.	51,738	64,895	45,311	52,352
TOTAL..			66,812		54,814
<u>Various food Products:-</u>					
Bituminous coal.....	ton	1,272	11,835	8,381	61,562
Anthracite coal.....	ton	8,040	69,733	952	11,645
Lignite coal.....	ton	20	320	25	422
Coke.....	ton	119	1,060	272	3,375
Gasoline.....	gal.	-	-	4,587	1,675
Oil (fuel).....	gal.	6,200	1,495	339	85
Wood.....	cd.	67	252	92	507
Gas.....	m.c.ft.	5,272	4,552	4,396	3,133
Other fuel.....	-	-	12	-	120
TOTAL..			89,262		82,534
<u>Vegetable Products, n.e.s.</u>					
Bituminous coal.....	ton	7,595	98,863	8,566	76,578
Anthracite coal.....	ton	5	77	13	198
Coke.....	ton	100	1,650	230	1,377
Gasoline.....	gal.	4,250	1,714	-	-
Oil (fuel).....	gal.	4,550	631	5,210	512
Wood.....	cd.	-	-	609	1,811
Gas.....	m.c.ft.	24	18	-	-
TOTAL..			102,953		80,476
<u>TOTAL VALUE OF FUEL</u>					
MISCELLANEOUS VEGETABLE PRODS.			388,545		331,665

MISCELLANEOUS VEGETABLE PRODUCTS IN CANADA, 1921-22POWER EMPLOYED

The different classes of power employed in the various industries is given in Table VIII by units and the indicated horse-power according to manufacturers rating for the calendar years 1921-1922.

TABLE VIII - Power Installation by Industries, 1921-1922.

Classes of Power	1921 Units No.	Capacity H.P.	1922 Units No.	Capacity H.P.
<u>Malt Mills</u>				
Electric motors.....	26	393	10	124
TOTAL....	26	393	10	124
<u>Rice Mills</u>				
Hydraulic turbines or water wheels.....	4	180	4	175
Electric motors.....	9	410	12	470
TOTAL....	13	590	16	645
<u>Ice Cream Cones</u>				
Electric motors.....	15	81	22	84
TOTAL....	15	81	22	84
<u>Various Food Products:-</u>				
Steam engines and turbines.....	7	290	11	580
Hydraulic turbines or water wheel.....	-	-	2	90
Electric motors.....	281	2,646	270	3,474
TOTAL....	288	2,936	283	4,144
<u>Vegetable products, n.e.s.: -</u>				
Steam engines and turbines.....	2	161	3	418
Electric motors.....	11	939	58	1,987
TOTAL....	13	1,100	61	2,405
<u>TOTAL POWER INSTALLATION</u>				
<u>MISCELLANEOUS VEGETABLE PRODUCTS...</u>	355	5,100	392	7,402

MISCELLANEOUS EXPENSES

Overhead charges or miscellaneous expenses, incurred in the several industries will be found in Table IX for the calendar years 1921 and 1922. The chief items comprising miscellaneous expenses are:- rent of buildings and machinery, rent of power, insurance premiums, taxes of all kinds, royalties, advertising and travelling expenses and repairs to buildings and machinery.

Table IX. Miscellaneous Expenses by Industries, 1921-1922

	1921	1922	Increase X Decrease -
Malt mills.....	\$ 403,870	\$ 127,070	- \$ 276,800
Rice mills.....	85,530	75,943	- 9,587
Ice cream cones.....	96,395	55,728	- 40,667
Various food products.....	1,176,596	1,134,925	- 41,671
Vegetable products, n.e.s.....	327,930	307,725	- 20,205
TOTAL, ALL INDUSTRIES.....	2,090,321	1,701,391	- 388,930

MISCELLANEOUS VEGETABLE PRODUCTS IN CANADA, 1921-1922IMPORTS AND EXPORTS

The quantity and value of goods imported into Canada for consumption are shown in Table X. The total value of imports was \$7,324,458 in 1921 and \$7,237,901 in 1922. Of the goods imported in the calendar year 1921 \$6,076,581 were from the United States, \$64,249 from the United Kingdom and \$1,183,628 from other countries. In 1922 the value of imports from the United States was \$5,802,862, from the United Kingdom \$109,971 and from Other countries \$1,325,068.

The quantity and value of goods, the produce of Canada, exported during the calendar years 1921 and 1922 are shown in Table XI. The total value fell from \$1,507,249 in 1921 to \$1,165,169 in 1922.

Table X. Imports of Goods for Consumption in Canada for the Calendar years 1921 and 1922.

Articles Imported	Unit	1921		1922	
		Quantity	Value	Quantity	Value
Cotton seed oil, refined.	gal.	43,933	\$45,037	49,158	\$53,595
" " " n.o.p...	gal.	91,561	75,521	46,508	49,621
" " " crude...	Lb.	46,805,000	2,727,083	33,099,230	2,632,523
Cocoanut oil....	gal.	62,431	94,815	86,480	95,576
Cereal foods, prepared, in packages.....	lb.	795,823	85,043	977,480	98,839
Cereal foods, prepared, n.o.p.			31,244		26,303
Malt, whole or ground....	lb.	8,962,289	268,443	12,567,825	309,079
Malt flour.....	lb.	49,073	7,807	177,538	21,984
Peanuts, shelled.....	lb.	10,220,062	658,085	9,560,915	637,553
Peanuts, not shelled....	lb.	6,239,438	442,055	5,750,285	327,159
Rice, cleaned.....	lb.	21,054,688	999,109	21,526,104	931,060
Rice, uncleaned.....	lb.	27,369,562	1,054,443	31,923,177	1,179,559
Rice and cassava flour and meal.....	lb.	224,761	20,889	171,159	14,046
Lard compound, cottolene and similar substances.	lb.	2,893,540	261,914	2,739,658	268,960
Yeast cakes.....	lb.	1,650	422	2,553	435
Yeast compressed in pkgs. weighing less than 50 pounds.....	lbs.	3,442	1,117	673	250
Yeast, compressed in bulk not less than 50 lbs....	lbs.	1,715,809	551,431	1,936,300	591,359
TOTALS.....			7,324,458		7,237,901

Table XI. Exports of Goods the produce of Canada for the Calendar years 1921 and 1922.

Articles Exported	Unit	1921		1922	
		Quantity	Value	Quantity	Value
Cereal foods, prepared all kinds.....	-	-	\$799,415	-	\$623,978
Malt.....	bu.	275,059	550,153	137,984	194,468
Rice.....	lb.	932,165	25,270	12,371	636
Rice meal and flour....	lb.	1,064,880	22,606	323,000	7,690
Lard compound and substitutes.....	cwt.	8,234	102,805	25,876	338,397
TOTAL VALUE OF EXPORTS			\$1,507,249		\$1,165,169

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