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DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

CANNED FOOD PRODUCTION

STATISTICS

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DEPARTMENT OF TRADE AND COMMERCE

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DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

OTTAWA, CANADA

Issued April 1932.

Dominion Statistician: Acting Chief, Census of Industry: A. Cohen, B. Com.

CANNED FOOD PRODUCTION IN CANADA, 1930.

The development in the production of canned foods in Canada showed a remarkable expansion since the beginning of the twentieth century. In 1900 the total value did not exceed \$8,250,000 whilst in 1930 it had increased to more than \$55,000,000 or six and one-half times as much. The principal commodities used in the canning industry are fish, fruits and vegetables, milk and meats, whilst the industry itself forms an adjunct of considerable importance to other industries notably the tin can industry, the wooden box industry and the paper and printing industry. The development of the canned foods trade has affected great changes in the relation of foods to seasons. Fruits and vegetables of many kinds are to be had at all times of the year, not always with all the flavour of the freshly gathered product, but with much of their original freshness and flavour. The producers in the country are provided with an enormously extended market and the consumer in both city and country with cheap and wholesome food in great variety. The consumer also enjoys protection by frequent inspection under the "Meat and Canned Foods Act 1907" and subsequent amendments, administered by the Health of Animals Branch of the Federal Department of Agriculture.

The principal statistics of establishments primarily employed in the production of canned foods for the calendar year 1930 are presented in the accompanying summary table. It should be remembered that the statistics in this table are for all products and by-products of the several industries shown. The figures of production, therefore, are not comparable with those shown elsewhere in this report.

Industry	Estab- lish- ments	Capital	Employees	Salaries and Wages	Value of Products
	No.	Ŷ	No.	Ψ.	\$
Fish, canned	434	20,795,177	12,147	3,118,306	19,433,617
Fruits, canned)) Vegetables, canned)	249	35,119,475	9,137	4,155,595	31,458,415
Condensed and evaporated milk	26	8,086,430	850	1,066,392	13,604,743
Meats, canned	18	1,000,000 ¹	127 1	122,000 ¹	914,379
Total	727	65,001,082	22,261	8,460,293	65,411,154

lEstimated.

Imports and Exports.

Imports of canned foods in the calendar year 1930 amounted to \$8,383,463 mostly of fruits and vegetables not grown in Canada by reason of climatic conditions.

Exports of canned foods, the produce of Canada, during 1930 amounted in value to \$15,209,877, of which canned fish totalled \$10.583,204 and condensed milk \$2,948,246.

The following table summarizes the imports and exports of canned foods by classes and value for the calendar years 1929 and 1930.

Classes of	192	9	1930	
Canned Foods	Exports	Imports	Exports	Imports
	τ. Q	in the second se	ц. С	\$
Canned fish	13,259,369	1,739,193	10,583,204	1,177,029
Canned fruits	422,543	3,172,055	250,271	2,954,415
Canned meats and soups	700,737	2,957,522	797,141	2,747,849
Canned milk products	3,625,361	40,022	2,948,246	42,985
Canned vegetables	1,272,445	2,037,391	631,015	1,461,185
Total	19,280,455	9,946,183	15,209,877	8,383,463

Production of Canned Foods in

	Unit of	CANA	A D A	ΟΝΤΑ	RIO
	Measure	Quantity	Value	Quantity	Value
			Č.		¢.
Fish, canned Total	Cases	2,732,983	18,413,477		
Salmon	н	2,223,469	13,924,037	-	-
Lobster	П	139,109	2,873,798		40
Sardines	11	244,238	979,299		
Pilchards	17	55,166	220,468	-	
Clams, etc	11	44,708	262,358		
Haddock	11	15,123	95,014	-	
Cod ,	11	5,793	28,394	1.	-
All Other	н	5,377	30,111		
Fruits, canned Total	Cases	927,838	3,520,21.3	676, 31.5	2,620,908
Apples	11	19,097	40,833	580	1,240
Cherries	11	128,055	487,832	108,156	412,021
Peaches	11	1.39,200	562,606	115,425	479,412
Pears	n.	299,800	1,049,904	260,343	909, 524
Plums	H.	78,358	180,158	61,070	132,682
Raspberries	11	40,205	228,826	20,839	119,563
Strawberries	н	36, 524	194,464	7,806	45,395
Other small fruits	11	87,783	304,770	26,800	134,563
All other fruits	11	98,816	470,820	75,296	386,508
Vegetables, canned Total	Cases	8,750,035	19,459,911	6,211,526	13,957,518
Beans, green or wax	11	349,217	856,936	92,121	233,836
Beans, baked	11	1,026,737	2,751,448	456,113	1,583,739
Corn	n	1,078,163	2,470,042	901,017	2,044,857
Peas	11	2,553,632	5,253,079	2,099,488	4,179,436
Tomatoes	11	3,389,549	7,369,790	2,472,089	5,346,004
All other vegetables	11	352,737	758,616	190,698	569,646
Miscellaneous Products.Total	Cases	872,755	3,023,880	758,065	2,971,083
Soups	11	777,269	2,517,813	770,738	2,495,109
Macaroni	11	89,243	465,645)	87,347	475,974
Chicken	11	6,243	40,422)	07,011	210,012
	Der	C AAG FAO	014 600	000 100	54 540
Meats Total	Pounds	6,443,349	914,379	260,120	54,746

1 Includes the production in the province of Quebec,

2 Includes other provinces.

nada and Provinces, 1930.

QUEE	BEC	BRITISH C	OLUMBIA	MARITIME	PROVINCES	PRAIRIE PI	ROVINCES
jum tity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	\$	ng mar di kana kana dikadi praga kata gana yan ngan gana	Ģ		\$		\$
11,996	255,999	2,298,695	14,271,766	422,292	3,887,712		- 15
227	2,407	2,221,783	13,903,386	1,459	18,244	***	- 100
11,769	251,592	-		127,340	2,622,204		
		5 300	000 400	244,238	979,299		-
	-	5.166	220,468	05 007			-
		21,101	141,271	25,607	121,087		~
				15,123	95,014		
		2.42	5 0.17	5,793	28,394		-
		645	6,641	4,732	23,470		
39,959	317,514	173,364	698,230	38,300	88,761		
512	1,530	15,559	51,094	4,446	6,969	446 X	
-		19,899	75,811	-	-	-	
3,858	11,712	19,917	71,482			-	-
2,530	6,328	35,274	130,746	1,653	3,306	-	-
4,300	12,050	12,688	35,426	-	_		*885
3,000	10,425	16,348	98,784	18	54		
., 500	16,000	22,997	127,574	1,221	5,495		-
18,259	48,469	11,862	48,801	30,862	72,937	***	
2,700	10,800	20,820	75,512	1.7	-		-
136,686	2,313,143	1,188,394	2,882,231	12,013	27,566	201,418	279,48
119,910	237,373	108,200	314,429	8,954	18,668	20,032	52,63
515,017	1,017,725	44,492	124,974	3,059	8,898	8,056	16,1]
139,161	308,975	37,985	116,210		-	0,000	
129,631	271,079	300,633	759,564	-	The states of the	23,880	43,00
228,373	469,248	641,689	1,426,563	100		47,398	127,97
4,594	8,745	55,595	140,481	1	1.1.1	102,050	39,72
-		5	20.001				
		6,553	22,7041	-			
8,139	30,093 ²						
399,693	542,309	341,051	89,793	469,028	65, 221	973,459	162,30

Production of Canned Foods in Canada

			under Bat in opposite the descention for the			
	Unit of	CANAD.		ONTA	ARIO	
	Measure	Quantity	Value	Quantity	Value	
			ŝ.		8	
Concentrated Milk Products. Total	Cwt,	1,077,723	9,793,521	867,292	8,049,890	
Evaporated milk Condensed milk Skim milk powder Condensed skim milk Whole milk powder Buttermilk powder Cream powder Condensed coffee, etc	11 11 11 11 11 11 11 11	576,309 233,605 143,071 91,418 23,542 6,373 901 2,004	4,997,590 2,444,033 J,278,250 469,010 481,071 47,700 45,067 30,800	399,027 217,130 129,480 90,339 23,542 6,873 901	3,584,109 2,286,383 1,145,545 460,015 481,071 47,700 45,067	
Total Value of Canned Foods	-		55,125,381		27,654,145	

The foregoing table presents a comprehensive statement of the quantity and selling value of canned foods in Canada by classes and provinces

and Provinces, 1930 - (Contid.)

QUEB	EC	BRITISH (COLUMBIA	MARITIME P	ROVINCES	PRAIRIE PR	OVINCES
Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	\$		ŝ.		e ^{ju} , e _{jr}		\$
	-	166,493	1,368,609	42,520	363,250	1,418	11,772
_		153,241	1,238,681	24,041	174,800		100.5
-		-		16,475	157,650		-
-	-	13,252	129,928		-	339	2,777
-		-	-	-		1,079	8,995
_	-	-		-	-	-	
	11-1 1			-	-		~
		~			-	-	
-	-	-	-	2,004	30,800	-	
- 2	3,256,858	-	19,328,338		4,432,510	***	453,530

FISH CANNING

The principal varieties of fish used in Canadian canneries are in order of their importance; salmon, lobsters, sardines, clams, pilchards, haddocks and herring

Salmon Canning: The salmon canning industry is practically confined to the province of British Columbia and dates as far back as 1876 when the initial pack way 9,847 cases, drawn wholly from the Fraser River area Ten years later the pack had increased to 161,264 cases and again in 1896 to 601,570 cases. In 1926 the pack had further increased to 2,065,190 cases with a value of \$16,354,784 constituting the second highest record pack for the industry, whilst in 1930 the last year for which complete statistics are available the pack had increased to 2,223,469 cases valued at \$13,924,037, a high record of all time.

Every species of this kind of food fishes (which however is not the true salmon) known to the waters of the Pacific is to be found on the British Columbia Goast - the sockeye, the spring, the cohoe, the pink and the chum salmon. Of these the sockeye is by far the most important, owing to its abundance, its deep red colour and its excellent texture which have created a favourable demand in the British market. The Fraser river which had for years been the chief source of supply has now yielded place to the Skeena river and adjacent waters. The remaining species are all marketabl in quality though not commanding the high place attained by the sockeye A table showing the annual pack since the beginning of the industry is appended. A variation in the quantity of the pack will be noted, the maximum being reached in about every fourth year

Year	Cases	Year	Cases
1876	9,847	1903	473,674
1877	67,387	1904	465,894
1.878	113,601	1905	1,167.822
1879	61,093	1906	629,460
1880	61,849	1907	542,266
188]	117,276	1908	542,689
1882	225,061	1909	967,920
1883	196,292	1910	762,201
1384	141,242	1911	948,965
1.885	108,517	1912	996,626
1886	161,264	1913	1.,353,901
1887	204,083	1914	1,111.039
1888	181,040	1915	1,1.33,381
1889	43.4,294	1916	995,065
1.890	409,464	1917	1,557,485
1891	314,893	1918	1,616,157
1892	228,470	1919	1,393,156
1893	590,229	1920	1,187,616
1894	494,37]	1921	603, 548
1895	566.395	1922	1,290,326
1896	603,570	1923	1,341.677
1897	1,027,204	19:4	1,745,313
1898	492,657	19.5	1, 19, 282

Annual Pack of Salmon, 1876 to 1930.

FISH CANNING - (Cont⁹d.)

Annual Pack of Salmon, 1876 to 1930 - Cont'd.

Year	Cases	Year	Cases
1899	765,517	1926	2,065,190
1900	606 530	1927	1,360,634
1901	1 236, 156	1928	2,035,629
1902	625,982	1929	1,399,541
		1930	2,223,469

Lobster Canning: Next to the salmon canneries of the Pacific Coast comes the lobster canning industry of Nova Scotia, New Brunswick, Prince Edward Island and Quebec. The industry dates from 1870 when the province of Nova Scotia produced 30,000 cans and New Brunswick 20,000 cans In the following year a factory was started in Prince Edward Island with an initial pack of 6,711 cans. The growth of the industry in over sixty years is indicated by the output of the 333 factories operating in Canada in 1930. Prince Edward Island with 85 factories produced 31,935 cases valued at \$635,961. Nova Scotia with 106 factories produced 63,422 cases valued at \$1,367,957. New Brunswick with 98 factories produced 31,933 cases valued at \$618,286 and Quebec with 44 factories produced 11,769 cases valued at \$251,592, or a total pack in 1930 of 139,109 cases worth \$2,873,796. In 1930 the value of lobsters imported was \$79,795, whilst exports totalled \$3,234,892 in value.

A table showing the annual pack of lobsters from 1897 to date follows:

Annual Pack of Lobsters, 1897 - 1930.

iear	Cases of 48 lb.	Year	Cases of 48 lb.
1897	231,886	1917	195,993
1.898	223, 554	1918	107,812
1899	218,652	1919	128,759
1900	219,756	1920	163,299
1901	209,513	1921	137,607
1902	194, 794	1922	148,644
1903	220, 921	1.923	151,039
1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 191 191 191 191	224,214 219,534 210,516 222,095 227,323 188,992 183,094 208,482 187,616 166,512 160,902 162,966 197.751	1924 1925 1926 1927 1928 1929 1930	102,118 127,497 123,519 113,937 111,986 127,516 139,109

FISH CANNING (Cont d)

Sardine Ganning: The industry is confined almost wholly to the Province of New Brunswick. The name of sardine as applied to the Ganadian fish is not the true one; as the fish used in the canneries of New Brunswick are the young of the herring. The first mention of a sardine industry in Canada so far as is known, dates back to sometime in the late sixties. Although but 3 canneries were reported in 1930 with a total pack of 244,238 cases and a value of \$979,299, the true significance of its importance to New Brunswick is explained when account is taken of the fact that the Maine, U. S. factories, about 50 in number, depend almost wholly on the supplies of fish obtained from Canadian waters. The imports of sardines in 1950 amounted to \$525,333 and came principally from Norway. Exports to the value of \$412,786 were reported in 1930, principally to British Dominions and dependencies. The season for taking this fish extends from April 1st to December 31st.

A table showing the annual pack of sardines from 1917 to date is appended,

Year	Cases Canned	Year	Cases Canned
1917	168,365	1924	282,306
1918	177,193	1925	209,649
1919	119,225	1.926	217.592
1920	129,925	1927	240,091
1921	111,835	1928	257,881
1922	121,800	1929	329,204
1923	140,000	1930	244,238

Annual Pack of Sardines, 1917 to 1930.

Clam and Other Canneries: There is a considerable pack of canned fish of other varieties, the principal in 1930 being clams and quahaugs with 44,703 cases valued at \$262,358, pilchards 55,166 cases worth \$220,468, haddock 15,123 cases valued at \$95,014, cod 5,793 cases valued at \$28,394 and all other fish 5,377 cases valued at \$30,111. There is also a large export of some of the above named varieties, the principal in 1930 with their value being codfish (\$205,749), clams (\$137,317) and pilchards \$107,049). There was, too, an import of canned herring amounting to \$44,716.

A statement showing the quantity of clams, etc., packed annually from 1917 to date is herewith presented.

FISH CANNING - (Cont'd.)

Annual Pack of Clams, etc., 1917 - 1930.

lear	Cases Canned	Year	Cases Canned
1917	19,445	1924	32,447
1918	16,592	1925	37,622
1919	14,599	1926	30.370
1920	17,195	1927	38,826
1921	22,384	1928	43,090
1922	23,085	1929	54,289
1923	18.329	1930	44.708

FRUIT AND VEGETABLE CANNING.

The canning of fruits and vegetables is carried on most extensively in the provinces of Ontario, British Columbia and Quebec, where climatic conditions are favourable for the growing of fruits and vegetables. The principal fruits canned in Ontario are apples, pears, plums, peaches, cherries, currants, gooseberries, blueberries, raspberries and strawberries. In addition British Columbia has the apricot and the loganberry. The vegetables canned include tomatoes, peas, corn, beans, beets, carrots, pumpkin, squash, spinach and asparagus. The canning season begins in June and continues through the summer and autumn until October, being at its height in July. August and September. The pack in 1930 consisted of 927,338 cases of fruits and 8.750,035 cases of vegetables valued at \$3,520,213 and \$19,459,911 respectively. Tomatoes rank first in the number of cases with 3,339,549, peas with 2,553,632 cases come next, followed in order by corn with 1,078,163 cases, beans, baked 1,026,737 cases, beans, green or wax 349,217 cases, pears 299.800 cases, peaches 139,200 cases, cherries 128,055 cases, etc.

Imports and exports of canned fruits and vegetables during the calendar year 1929 and 1930 are summarized in the following table as far as the classification of these commodities permits:

FRUIT AND VEGETABLE CANNING - (Cont'd.)

Table showing Imports of Canned Fruits and Vegetables, 1929 and 1930. (Calendar Year)

	192	9	1930		
	Quantity Lbs,	Value	Quantity Lbs.	Vallue V	
Janned Vegetables -					
Asparagus	2,044,089	316,052	1,459,353	228,467	
Beans, baked	1,376,918	95,551	873,226	68,807	
Cora	4,973,803	330,308	3,324,368	228,672	
Peas	5,372,699	423,101	4,424,864	348,079	
Tomatoes	2,156,809	166,439	1,624,715	87,630	
Mushrooms	809,742	169,449	828,717	144,842	
All other vegetables	6,371,220	536,491	4,441,435	354,688	
Total Canned Vegetables	23,105,280	2,037, 391	16,976,678	1,461,185	
Canned Fruits -					
Peaches and Apricots	12,245,279	955,741	10,759,747	870,158	
Pears	1,301,252	134,806	1,318,742	126,307	
Pineapples	18,919,876	1.,183,036	23,405,812	1,269,795	
All other Fruits	8,043,857	895,472	6,531,594	688,155	
Total Canned Fruits	40,510,264	3,172,055	42,015,895	2,954,415	

Table showing Exports of Canned Fruits and Vegetables, 1929 and 1930. (Calendar Year)

(ourordan toan)					
	1929		1930		
	Quantity Lbs.	Value \$	Quantity Lbs.	Value \$	
Canned Vegetables -	R 040 470	570 055	1 070 251	295,862	
Beans	7,648,478	530,855 627,962	4,979,354 3,223,466	216,910	
Tomatoes	12,246,246	11.3,648	1,757,578	1.18,243	
All other wegetables	1,496,898				
Total Canned Vegetables	21,391,622	1,272,445	9,960,398	631,015	
Canned Fruits					
Pears	4,025,462	291,196	1,957,595	152,212	
All other fruits	1,790,785	131,347	1,330,781	98,059	
Total Canned Fruits	5,816,247	422,543	3.288,376	250,271	
				the second s	

MEAT CANNING

The canning of meats, an adjunct of the great meat-packing industry, is not as extensively carried on in Canada as are other sections of the canned foods group of industries, being more in the nature of a side line of the main industry. The total value of canned meats manufactured in Canada during the calendar year 1930 was \$914,379. Imports of canned meats, poultry and game during the same period amounted to \$1,193,749, whilst exports of Canadian products totalled \$38,152. Closely allied to the canned meat industry is that of canned soups the manufacture of which in the year mentioned totalled \$2,517,813, whilst imports were valued at \$1,554,100, and exports at \$758,939.

CONCENTRATED MILK PRODUCTS

The Concentrated Milk Products industry in Canada dates from 1883 when the first factory was established at Truro, Nova Scotia, by the Reindeer Condensed Milk Company. Later in the eighties and again in the nineties several new plants were created by this company and the St. Charles Company at Ingersoll, Ontario, many of them being absorbed at a later date by the Borden Condensed Milk Co. which now operates plants at Ingersoll, Trenton and Norwich, Ontario, Truro, Nova Scotia and Sardis, B. C. Other Companies operating a number of plants in 1930 were as follows:

Canadian Milk Products, Ltd.	Plants at Belmont, Burford, Russell and Tillsonburg, all in Ontario.
Carnation Milk Products Co. Ltd.	Plant at Aylmer, Ontario.
City Dairy Co. Ltd., Toronto	Plants at Courtland, Listowel, Princeton, Toronto, Simcoe, Straffordville and Woodstock, all in Ontario.
Acme Farmers Dairy Ltd., Toronto	Plants at Napanee and Sydenham in Ontario.
Silverwood's Limited, London	Plants at Peterborough and Woodstock, Ontario.
Individual Companies	Plants at Beachville, Brockville, Chesterville, Lindsay and St. George in Ontario, Charlottetown, P. E. I. and Abbotsford, B. C.

The value of concentrated milk products in Canadian factories as first reported in the decennial census of 1891 was \$83,000. In 1901 the value had increased to \$269,520, in 1906 to \$855,409 and in 1910 to \$1,814,871. The value of production in recent years as given in the following table shows the rapid advancement made by this industry.

- 12 -

CONCENTRATED MILK PRODUCTS - (Cont'd.)

	and a characterized and a second planta second and	and an and an and an and an and an
Year	No. of Factories	Value of Products
		A DE MARKER DE MARKER
1917	20	\$ 8,097,217
1918	22	12,413,818
1919	24	15,880,033
1920	28	20, 519, 835
1921	27	14,270,591
1.922	23	9,501,345
1923	25	13,714,978
1924	24	13,215,173
1925	24	13,453,472
1926	26	13,159,659
1927	27	13,387,048
1928	29	14,161,306
1929	30	14,686,802
1930	26	13,604,743

The value of imports and exports of concentrated milk products is shown for the years 1903-1930.

		Imports	Exports
Fiscal Year	1903 1908 1912 1915 1917 1918	\$ 27,943 87,998 9,981 9,485 10,268 11,951	<pre>\$ 241,859 42,757 305,678 1,181,300 1,371,610 4,955,048</pre>
Calendar Year	1924 1925 1926 1927 1928 1929 3930	33,141 27,076 33,355 31,692 28,870 40,022 42,985	5,319,364 5,088,441 4,522,673 4,208,975 3,463,709 3,625,361 2,948,246

Tel reiser

CONSUMPTION OF CANNED FOODS IN CANADA, 1930.

The value of canned foods available for consumption in Canada for the calendar year 1930 is shown by classes in the following summary table. Consumption figures are usually computed by adding together the values of manufactures and imports and deducting therefrom the value of exports.

Classes of Canned	Value of Manufactures	Value of	Value of Exports	Value available for Consumption Total Per Capita	
Foods	mantal ac out op	rint) of 00	THE DAY OF	2.0.000	LOI Oupmon
	\$	\$	\$	Ş	Ş
Fish, canned	18,413,477	1,177,029	10,583,204	9,007,302	۰88
Fruits, canned	3,520,213	2,954,415	250,271	6,224,357	.61
Vegetables, canned	19,459,911	1,461,185	631,015	20,290,081	2.00
Miscellaneous products, canned	3,023,880	1,554,100	758,989	3,818,991	.37
Concentrated Milk Products	9,793,521	42,985	2,948,246	6,888,260	。67
Meats, canned	914,379	1,193,749	38,152	2,069,976	.,20
- Total	55,125,381	8,383,463	15,209,877	48,298,967	4.73

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