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DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

STATISTICS STATISTIQUE
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THE

FRUIT & VEGETABLE PACKING INDUSTRY

in

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INCLUDING:-

1. Fruits and Vegetables, Canned
2. Fruits and Vegetables, Dried or Evaporated
3. Fruits, Preserved
4. Vinegar, Pickles, Sauces and Relishes

♦ ♦ ♦

Published by Authority of the Hon. James Malcolm, M.P.,

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OTTAWA

1930

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

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

Ottawa, December, 1929.- The annual report on the Fruit and Vegetable Packing and Allied Industries in Canada for the calendar year 1928 is herewith presented. The report is divided into four separate sections as follows:-

1. Fruits and Vegetables, canned.
2. Fruits and Vegetables, dried or evaporated.
3. Fruits, preserved.
4. Vinegar, Cider, Pickles. Sauces and Relishes.

A summary of the operating plants in each section with their location by provinces is given in the table following for the calendar year 1928.

Provinces	Fruits and Vegetables Canned	Fruits and Vegetables, dried or evaporated	Fruits preserved	Vinegar, Cider, Pickles Sauces and Relishes	Total
CANADA	145	26	45	62	278
Nova Scotia	5	3	1	2	11
New Brunswick	1	-	-	1	2
Québec	35	-	11	6	52
Ontario	86	22	22	40	170
Manitoba	1	-	1	5	7
Saskatchewan	-	-	1	-	1
Alberta	2	-	1	2	5
British Columbia	15	1	8	6	30

Comparing the number of plants reporting in 1927 with 1928, there appears an increase of 15 in the number of factories canning fruits and vegetables, and of 2 in the number of vinegar and pickling plants, whilst evaporating plants decreased by 10 and preserving plants by 1, the net increase over 1927 for all factories included in this report being 6.

THE FRUIT AND VEGETABLE PACKING INDUSTRY IN CANADA, 1928.

A table showing the quantity and values of commodities in the fruit and vegetable canning and kindred industries is herewith presented for the calendar year 1928.

Collective Summary of Products in the Fruit and Vegetable Packing and other industries, 1928.

	Unit	Quantity	Value \$
Fruits, canned			
Apples	case	177,282	420,211
Cherries	"	73,559	335,944
Peaches	"	128,386	404,614
Pears	"	310,525	940,811
Plums	"	141,999	343,567
Raspberries	"	47,529	234,249
Strawberries	"	40,587	232,877
All other fruits	"	99,585	371,600
Vegetables, canned			
Beans, green or wax	"	216,802	643,845
Beans, baked	"	1,246,356	3,358,940
Corn	"	917,846	2,300,446
Peas	"	1,032,806	2,536,556
Tomatoes	"	1,864,956	4,288,849
All other vegetables	"	205,694	571,245
Fruits, preserved			
Jams	pound	45,528,696	5,339,602
Jellies	"	2,397,050	290,386
Marmalades	"	7,973,072	880,167
Fruits, crushed, preserved, etc.	gal.	136,885	402,055
Fruits, glacé	pound	1,063,874	369,672
Syrups and fruit juices	gal.	-	2,296,166
Other preserved fruits	pound	200,482	21,176
Fruits, dried or evaporated			
Apples	pound	2,526,399	309,039
Apple chop and waste	"	1,399,614	36,583
Vinegar, Pickles, Sauces, etc.			
Vinegar	gallon	4,396,866	1,506,589
Pickles, all kinds	"	1,493,667	2,253,536
Catsup, sauces and relishes	"	1,717,319	2,861,618
Cider	"	290,055	78,331
Miscellaneous products			
Canned soups	case	408,245	1,390,612
Canned macaroni	"	70,505	309,400
Canned chicken	"	4,856	53,901
Apple butter	pound	74,965	8,955
Peanut butter	"	3,680,324	632,739
Candied peel	"	1,493,724	217,156
Mincemeat	"	3,349,349	363,953
Powders - ice cream, jelly, etc.	"	6,947,862	1,546,795
Mustard, prepared	gallon	263,587	174,817
Horseradish	pound	93,400	29,380
Sauerkraut	"	3,228,587	130,623
Salad dressing	gallon	114,062	298,712
Almond paste	pound	82,912	38,535
Fruit butter	"	327,881	36,045
Sugar butter	"	774,421	87,577
Tomato pulp, puree, etc.	-	-	37,304
Olives, packed	gallon	270,227	687,336

STATE OF NEW YORK

IN SENATE, JANUARY 11, 1900.

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THE FRUIT AND VEGETABLE PACKING INDUSTRY IN CANADA, 1928.

Comparison of Principal Statistics, 1927 and 1928.

Table 1 presents a summary of the principal statistics of the four sections comprising the fruit and vegetable packing industry for the calendar years 1927 and 1928.

Increases appear in the amount of capital invested, the number of salaried employees, wage-earners and piece-workers, the amount paid to each class of workers, the cost of fuel, the cost of materials used and in the value of products.

Table 1.- Principal Statistics Compared 1927 and 1928.

Principal Statistics		1927	1928	Increase (+) Decrease (-)
Establishments reporting	No.	272	278	6
Capital invested -				
Fixed	\$	16,508,620	17,513,691	+ 1,005,071
Working	\$	17,403,612	18,454,164	+ 1,050,552
Average capital per establishment	\$	124,677	129,381	+ 4,704
Salaried employees -				
Males	No.	510	517	+ 7
Females	No.	186	175	- 11
Total salaries paid	\$	1,079,431	1,144,348	+ 64,917
Average salary per employee	\$	1,550.90	1,653.68	+ 102.78
Wage earners, average number -				
Males	No.	2,759	3,045	+ 286
Females	No.	4,334	5,088	+ 754
Total wages paid	\$	2,968,957	3,542,354	+ 573,397
Average wages per employee	\$	418.58	435.55	+ 16.97
Outside piece-workers -				
Males	No.	54	22	- 32
Females	No.	437	1,049	+ 612
Total payments	\$	11,764	31,034	+ 19,270
Average payment per worker	\$	23.95	28.98	+ 5.03
Cost of fuel used	\$	355,708	375,993	+ 20,285
Average cost per establishment	\$	1,307.75	1,352.50	+ 44.75
Power installed -				
Units	No.	1,212	1,297	+ 85
Capacity	H.P.	13,692	14,058	+ 366
Average capacity per establishment	H.P.	50.34	50.57	+ .23
Total cost of materials used -	\$	17,212,599	20,198,580	+ 2,985,981
Average cost per factory	\$	63,282	72,657	+ 9,375
Total value of products made	\$	30,334,022	35,313,722	+ 4,979,700
Average production value per factory	\$	111,522	127,028	+ 15,506
Total net value of production	\$	13,121,423	15,115,142	+ 1,993,719
Average net value per factory	\$	48,240	54,371	+ 6,131

SECTION I. FRUITS AND VEGETABLES, CANNED.

The number of plants engaged in the canning of fruits and vegetables during 1928 was 145 being an increase compared with 1927 of 15 individual plants. Of the total, 86 were located in the province of Ontario, 35 in Quebec, 15 in British Columbia, 1 in New Brunswick, 5 in Nova Scotia, 2 in Alberta and 1 in Manitoba. The statistics of Manitoba and Alberta are combined with those of British Columbia to avoid divulging statistics of individual concerns.

Production

The quantity and selling value at the factory of the various products of the canning industry are presented in Table 2 for Canada and the provinces. The total value of all products in 1928 was \$16,782,229, an increase over the preceding year of \$2,449,315. The province of Ontario leads in value of production with \$10,668,157 or nearly 64 per cent of the total for the Dominion. British Columbia is second with \$3,789,917 or 22.6 per cent and Quebec third with \$1,777,843 or 10.6 per cent. Tomatoes, corn, peas and beans baked are the largest individual items in the canned vegetable group, aggregating in value \$10,351,644 in a total of \$11,560,734. In canned fruit production pears, apples, peaches, cherries and plums made up \$2,427,835 in a total of \$3,262,561. Preserved fruit in this section totalled \$1,069,154 and other miscellaneous products \$889,780. The greatest diversity in canned products is to be found in Ontario and British Columbia where with favoured climatic conditions the growing of fruits and vegetables is carried on in greatest variety and abundant yield.

Table 2. Fruit and Vegetable Canning by Provinces, 1928.

	Unit	CANADA		Maritime Provinces	
		Quantity	Selling Value	Quantity	Selling Value
Canned Fruits 1/ Totals	Cases	1,012,936	\$ 3,262,561	30,745	\$ 75,697
Apples	"	175,530	415,101	24,585	50,548
Cherries	"	73,559	335,944	10	30
Peaches	"	128,386	404,614	-	-
Pears	"	310,225	939,611	550	1,264
Plums	"	138,335	332,565	-	-
Raspberries	"	46,729	230,249	-	-
Strawberries	"	40,587	232,877	2,167	11,840
Other small fruits	"	46,092	176,597	3,433	12,015
All other fruits	"	53,493	195,003	-	-
Canned Vegetables 1/ Totals	"	4,774,217	11,560,734	4,963	17,389
Beans, green or wax	"	214,802	637,845	3,363	10,089
Beans, baked	"	545,967	1,243,998	-	-
Corn	"	917,846	2,300,446	-	-
Peas	"	1,032,806	2,536,556	-	-
Tomatoes	"	1,857,102	4,270,644	-	-
All other vegetables	"	205,694	571,245	1,600	7,300
Preserved Fruits 1/					
Jams	Lb.	7,677,274	898,863	933,172	97,987
Jellies	"	111,105	15,102	6,788	713
Marmalades	"	337,468	35,507	41,857	4,186
Fruits, crushed, etc.	gallon	-	-	-	-
Fruits, glacé	Lb.	297,328	107,038	-	-
Syrups, fountain, etc.	gallon	-	-	-	-
Other preserved fruits	Lb.	140,482	12,644	-	-
Miscellaneous products 1/					
Catsup and relishes	gallon	304,264	209,099	-	-
Canned soups	Cases	136,223	502,696	-	-
Canned chicken	"	4,856	53,901	-	-
Evaporated apples	Lb.	273,103	30,594	273,103	30,594
Apple chop and waste	"	209,653	4,591	169,653	4,091
Mincemeat	"	14,017	1,402	14,017	1,402
Sauerkraut	"	33,560	1,240	-	-
Vinegar	gallon	75,000	21,000	75,000	21,000
Cider	"	-	-	-	-
All other products	-	-	65,257	-	-
Total Value	\$	-	16,782,229	-	253,059

1/ Data here given do not necessarily represent the total Canadian production of these commodities since they are also produced in other industries.

SECTION I. FRUITS AND VEGETABLES, CANNED.

Table 2. Fruit and Vegetable Canning by Provinces, 1928 (cont'd).

		Quebec		Ontario		British Columbia Manitoba & Alberta	
		Quantity	Selling Value	Quantity	Selling Value	Quantity	Selling Value
			\$		\$		\$
Canned Fruits, Total	Cases	15,664	60,468	713,678	2,192,524	252,849	933,872
Apples	"	-	-	82,238	183,702	68,607	180,851
Cherries	"	-	-	64,037	296,567	9,512	39,347
Peaches	"	500	2,000	102,231	314,041	25,655	88,573
Pears	"	-	-	270,749	781,040	38,926	157,307
Plums	"	-	-	101,956	229,370	36,379	103,195
Raspberries	"	-	-	27,316	123,788	19,413	106,461
Strawberries	"	180	720	16,376	103,318	21,864	116,999
Other small fruits	"	14,624	56,308	14,190	47,258	13,845	61,016
All other fruits	"	360	1,440	34,485	113,440	18,648	80,123
Canned Vegetables, Total	"	723,861	1,711,375	3,148,218	7,571,083	897,175	2,260,887
Beans, green or wax	"	70,842	196,266	79,590	261,626	61,007	169,864
Beans, baked	"	454,033	1,011,663	40,875	100,052	51,059	132,283
Corn	"	85,734	221,927	821,266	2,031,189	10,846	47,330
Peas	"	40,000	104,000	830,005	1,965,268	162,801	467,288
Tomatoes	"	71,752	174,504	1,221,993	2,782,564	563,357	1,313,576
All other vegetables	"	1,500	3,015	154,489	430,384	48,105	130,546
Preserved Fruits -							
Jams	Lb.	-	-	727,920	97,426	6,016,182	703,450
Jellies	"	-	-	28,680	4,015	75,637	10,374
Marmalades	"	-	-	295,611	31,321	-	-
Fruits, crushed, etc.	Gal.	-	-	-	-	-	-
Fruits, glacé	Lb.	-	-	-	-	297,328	107,038
Syrups, fountain, etc.	Gal.	-	-	-	-	-	-
Other preserved fruits	Lb.	-	-	36,910	3,322	103,572	9,322
Miscellaneous products -							
Catsup and relishes	Gal.	-	-	212,278	165,563	91,986	43,536
Canned soups	Cases	-	-	136,223	502,596	-	-
Canned chicken	"	-	-	4,856	53,901	-	-
Sauerkraut	Lb.	-	-	30,000	1,100	3,560	140
Cider	Gal.	-	-	-	-	-	-
All other products	-	-	6,000	-	45,206	-	14,551
Total	-	-	1,777,843	-	10,668,157	-	4,083,170

Capital Invested

The amount of capital invested in the fruit and vegetable canning section in the calendar year 1928 is shown by classes and provinces in Table 3. The total capital investment in the Dominion in 1928 was \$21,251,269 made up of fixed capital (land, buildings, machinery and tools) totalling \$10,709,452 and working capital (materials and stocks on hand, cash, trading and operating accounts, etc.) which totalled \$10,541,817. The province of Ontario leads in capital invested with \$16,585,084 in a total investment for the Dominion of \$21,251,269 equivalent to nearly 78 per cent. British Columbia is next with 12.3 per cent and Quebec third with 6.1 per cent. Fixed capital represented 50.4 per cent and working capital 49.6 per cent of the total investment.

Table 3. Capital Invested by Classes and Provinces, 1928.

Provinces	Fixed Capital	Working Capital		Total Capital
	Land, buildings, machinery and tools	Materials and stocks on hand, etc.	Cash, trading and operating, accounts, etc.	
	\$	\$	\$	\$
CANADA	10,709,452	9,413,439	1,128,378	21,251,269
New Brunswick	137,106	38,644	67,670	243,420
Nova Scotia	200,826	45,568	14,550	260,944
Quebec	579,895	489,997	234,646	1,304,538
Ontario	8,668,144	7,443,175	473,765	16,585,084
British Columbia, Manitoba and Alberta	1,123,481	1,396,055	337,747	2,857,283

SECTION I. FRUITS AND VEGETABLES, CANNED.

Employment Statistics

Statistics of employment during 1928 are presented in a series of tables as outlined below:-

Table 4. Employees classified by number, sex and remuneration.

Table 5. Wage-earners employed by number, months and sex.

Table 6. Working time of plants and employees.

Employees, Salaries and Wages.- The number of persons employed on salaries and on wages are shown by sex and remuneration during 1928 for the provinces and the Dominion in Table 4. The number of employees on wages in this seasonal industry is obtained by the addition of the averages of monthly employment in each plant. The total number so obtained was for the Dominion, 1,852 males and 3,661 females, instead of 1,488 males and 1,731 females found by dividing the aggregate monthly employment by 12. The total number of employees during the year was 6,388 and the total payment for salaries, wages, etc. was \$2,265,927.

Table 4. Employees, Salaries and Wages, 1928.

Classes of Employees		CANADA	Nova Scotia	New Brunswick	Quebec	Ontario	British Columbia, Manitoba and Alberta
Employees on salaries -							
Males	No.	217	3	1	31	128	54
Females	No.	66	-	-	-	39	27
Total salaries	\$	404,819	5,200	3,600	30,615	259,523	105,881
Wage-earners -							
Male, average	No.	1,852	43	15	284	1,171	339
Female, average	No.	3,661	82	26	565	2,133	855
Total wages	\$	1,852,108	25,771	17,563	124,948	1,089,786	594,040
Outside piece-workers -							
Male	No.	10	-	-	-	10	-
Female	No.	582	-	-	-	582	-
Amount paid	\$	9,000	-	-	-	9,000	-
Totals -							
Male employees	No.	2,079	46	16	315	1,309	393
Female employees	No.	4,309	82	26	565	2,754	882
Salaries, wages, etc.	\$	2,265,927	30,971	21,163	155,563	1,358,309	699,921

SECTION I. FRUITS AND VEGETABLES, CANNED.

Employment Statistics (Cont'd.)

Wage-earners Employed by Months.- The number of wage-earning employees are shown in Table 5 by sex and by provinces for each month of the year. In this section of the industry the months of highest employment were from July to November, whilst those of lowest employment were December to June, indicating the seasonal nature of the industry which attains its height in September. The average of plants for the whole year was 1,852 males and 3,661 females, whilst the average for the months of highest employment was 2,563 males and 3,579 females. During the rest of the year employment is engaged in packing, shipping, etc.

Table 5.- Employment by Months, 1928.

Months	CANADA		Nova Scotia		New Brunswick		Quebec		Ontario		British Columbia, Manitoba and Alberta	
	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females
January	451	168	5	-	11	6	53	14	326	133	56	15
February	478	157	26	22	9	4	55	17	327	89	61	25
March	515	188	25	19	8	4	53	17	334	131	95	17
April	689	244	5	-	12	6	51	19	503	196	118	23
May	837	496	8	4	14	9	60	19	594	299	161	165
June	1,156	1,055	9	-	21	8	65	18	806	511	255	518
July	2,674	2,484	27	31	26	142	115	159	2,072	1,278	434	874
August	2,337	3,905	32	45	16	46	267	489	1,475	1,908	547	1,417
September	3,660	5,902	49	53	18	46	335	598	2,613	3,701	645	1,504
October	2,572	3,561	62	78	19	15	173	248	1,900	2,526	418	694
November	1,573	2,043	65	87	16	14	79	54	1,133	1,398	280	490
December	908	790	50	77	15	6	59	32	673	542	111	133
Total monthly employment	17,850	20,993	363	416	185	306	1,365	1,684	12,756	12,712	3,181	5,875
Average of monthly employment of plants	1,852	3,661	43	82	15	26	284	565	1,171	2,133	339	855

SECTION I. FRUITS AND VEGETABLES, CANNED.

Employment Statistics (Cont'd.)

Working time of plants and employees.— The operating time of plants engaged in the "Fruit and Vegetable Canning" Section and the hours of labour worked by employees are shown in Table 6 by totals and averages per plant. Compared with 1927 the average of full time operation per plant decreased by 19.33 days, part-time operations decreased by 9.43 days or a total of 28.76 days idle more than the preceding year. Hours of labour show slight decreases compared with 1927, being .02 in the average daily working hours and .50 in the hours worked per week.

Table 6. Working time of Plants and Employees in the Fruit and Vegetable Canning Industry, 1928.

Number of plants reporting	145	
	Totals	Averages per plant
Operating time of plants -		
Days worked on full time	10,854	74.85
Days worked on part time	11,829	81.58
Days idle	21,397	147.57
Hours of labour per employee -		
Per day or shift	1,382	9.53
Per week	8,080	55.72

The number and percentage of wage-earners in months of highest employment working specified hours per day is shown in Table 6(a) for Canada and the provinces. For the Dominion, the number working specified hours was distributed between the classes, the percentage working 10 hours being highest. In Ontario nearly 65 per cent of the employees worked 10 hours per day, in Quebec 78.65 per cent worked 10 hours, whilst in Manitoba, British Columbia and Alberta 43.40 per cent worked 10 hours, 30.24 per cent worked 9 hours and 18.84 per cent worked 8 hours or less. More than 11.6 per cent of the wage-earners in the Dominion worked over 10 hours per day.

Table 6(a).— Hours worked by wage-earners in month of highest employment, 1928.

Provinces	Wage-earners in month of highest employment working per day of				Percentage of wage-earners working per day of			
	8 hours or less	9 hours	10 hours	Over 10 hours	8 hours or less	9 hours	10 hours	Over 10 hours
	No.	No.	No.	No.	p.c.	p.c.	p.c.	p.c.
CANADA	1,137	2,076	6,839	1,328	9.99	18.24	60.10	11.67
Nova Scotia	-	101	80	-	-	55.80	44.20	-
New Brunswick	-	168	-	-	-	100.00	-	-
Quebec	128	77	818	17	12.32	7.40	78.65	1.63
Ontario	538	974	4,856	1,123	7.19	13.00	64.82	14.99
British Columbia, Manitoba & Alberta	471	756	1,035	188	18.84	30.24	43.40	7.52

SECTION I. FRUITS AND VEGETABLES, CANNED.

Employment Statistics (Cont'd)

The numbers of hours worked per day in the month of highest employment and the standard working hours per week are shown by provinces in Table 6(b). It should be noted that whilst the statistics relating to hours of labour in columns 1, 2 and 3 are based on figures compiled for the month of highest employment, those in columns 4 and 5 represent the total and average of standard weekly hours of labour for the number of establishments reporting to the Bureau. For this reason the relation between daily and weekly hours of labour is to some extent impaired. The average daily hours of labour on the above basis was for the Dominion 9.67, whilst the average standard weekly hours worked out at 55.7 per plant.

Table 6(b).- Hours of Labour per day and per week, 1928.

Provinces	Total daily hours and number of wage-earners in month of highest employment			Standard working hours per week	
	Total	Total wage-earners	Average hours per day per wage-earner	Total	Average
	No.	No.	No.	No.	No.
CANADA	110,114	11,380	9.67	8,080	55.7
Nova Scotia	1,709	181	9.44	293	58.6
New Brunswick	1,512	168	9.00	54	54.0
Quebec	10,076	1,040	9.69	1,917	54.8
Ontario	73,421	7,491	9.80	4,853	56.4
British Columbia, Manitoba and Alberta	23,396	2,500	9.36	963	53.5

Fuel Consumption

The quantity and cost value delivered at the factory of the classes of fuel used in the canning industry during 1928 is shown in Table 7. Compared with the preceding year the total cost of fuel rose from \$156,988 in 1927 to \$174,013 in 1928, an increase of \$17,025 or over 10 per cent. Bituminous coal was the principal fuel used and represented 81.4 per cent of the total cost of all fuels. Gas, artificial and natural was the next principal fuel on cost basis followed in order by anthracite coal and wood.

Table 7.- Fuel Consumption in the Fruit and Vegetable Canning Section, 1928.

Classes of Fuel	Unit of measure	Quantity	Cost value delivered at factory or works
			\$
Bituminous coal	ton	22,193	141,718
Anthracite coal	ton	586	6,682
Lignite coal	ton	27	197
Coke	ton	253	3,334
Gasoline	gal.	1,991	446
Oil (fuel)	"	11,856	1,048
Wood	cord	745	3,464
Gas, artificial and natural	M.C.Ft.	13,769	8,478
All other fuel, not specified	-	-	8,646
Total cost of fuel	-	-	174,013

SECTION I. FRUITS AND VEGETABLES, CANNED.

Power Installation

The power installed in the canning section of the industry in 1928 is shown by classes and by horse power according to manufacturer's rating. Primary power installed rose from 5,728 h.p. in 1927 to 5,917 h.p. in 1928. Electric motors operated by purchased power increased from 3,136 h.p. in 1927 to 3,191 h.p. in 1928, whilst the cost of electricity purchased during the year totalled \$25,546.

Table 8.- Power Installation in the Fruit and Vegetable Canning Section, 1928.

Classes of power	Number of units	Horse power according to manufacturer's rating
Steam engines and turbines	131	5,330
Oil, gas and gasoline engines	31	587
Total primary power	162	5,917 1/
Electric motors operated by purchased power	334	3,191 1/
Electric motors operated by owned power	73	798
Total electric motors	407	3,989
Total power used in manufacturing 1/	49	9,108
Boiler installation	209	16,975

Materials Used

The quantity and cost value at the factory or works of the materials used during the year including containers are shown in Table 9. The total cost of materials rose from \$8,375,780 in 1927 to \$9,633,510 or an increase of more than 15 per cent. Of the total cost of materials in 1927 the item of containers represented over 48 per cent.

Table 9.- Materials used in the Fruit and Vegetable Canning Section, 1928.

	Units of measure	Quantity	Cost Value at the factory or works
			\$
Fruits for canning, preserving, etc.	pounds	40,354,200	1,269,016
Vegetables for canning, etc.	"	250,167,790	2,660,393
Sugar	"	11,326,893	663,447
Salt	"	1,286,383	15,050
Pectin	"	340,725	36,131
Glucose	"	106,306	5,702
Spices, all kinds	"	9,349	4,711
Vinegar	gallon	7,179	3,017
Containers, labels, etc.	-	-	4,664,433
All other materials not specified	-	-	311,610
Total cost of materials	-	-	9,633,510

SECTION I. FRUITS AND VEGETABLES, CANNED.

Imports and Exports

The imports and exports of Canned Fruits and Vegetables for the calendar year 1928 are shown by quantity and value as well as by principal countries in Table 10. The total value of imports increased from \$3,697,235 in 1927 to \$4,463,097 in 1928, whilst exports also increased from \$1,360,802 in 1927 to \$1,687,258 in 1928. Of the import valuation 65.4 per cent of canned fruits and 70 per cent of canned vegetables came from the United States. On the other hand the United Kingdom took over 91 per cent of the value of canned fruits and nearly 84 per cent of canned vegetables exported during the calendar year 1928. The United States took approximately .105 per cent of canned fruits exported, while the exports of canned vegetables rose from \$2,049 in 1927 to \$27,494 in 1928.

Table 10.- Imports and Exports of Canned Fruits and Vegetables, by Countries, 1928.

Articles		Imports		Exports	
		Quantity	Value \$	Quantity	Value \$
Peaches in cans or other air tight packages	lb.	10,607,238	761,023	-	-
United States	"	9,495,521	683,207	-	-
Australia	"	1,111,657	77,811	-	-
Other Countries	"	60	5	-	-
Pineapples in cans or other air tight packages	"	20,809,938	1,307,684	-	-
United Kingdom	"	13,152	1,230	-	-
United States	"	5,581,042	482,755	-	-
British South Africa	"	500,111	41,312	-	-
Straits Settlements	"	12,115,869	563,034	-	-
Hawaii	"	2,294,958	199,602	-	-
Other Countries	"	304,806	19,751	-	-
Fruits in cans or other air tight packages, n.o.p.	"	7,283,009	755,770	2,975,891	245,504
United Kingdom	"	102,495	7,682	2,690,195	217,558
United States	"	6,197,194	652,586	3,587	408
Australia	"	151,880	11,949	2,411	296
France	"	22,879	2,944	-	-
Netherlands	"	348,880	44,733	5,025	420
New Zealand	"	-	-	196,714	18,190
Spain	"	323,675	16,530	-	-
Other Countries	"	136,006	19,346	77,959	8,632
Pears in cans or other air tight packages	"	1,153,514	107,427	1,761,507	140,052
United Kingdom	"	-	-	1,654,182	131,852
United States	"	1,064,306	99,588	-	-
Other Countries	"	89,208	7,839	107,325	8,200
Total canned fruits	"	39,853,699	2,931,904	4,737,398	385,556

SECTION I. FRUITS AND VEGETABLES, CANNED.

Imports and Exports (Cont'd.)

Table 10.- Imports and Exports of Canned Fruits and Vegetables by Countries, 1928 - (Cont'd.)

Articles		Imports		Exports	
		Quantity	Value \$	Quantity	Value \$
Beans, baked in cans, etc.	lb.	950,323	65,914	15,049,606	1,026,855
United Kingdom	"	48	4	14,443,588	992,188
United States	"	950,275	65,910	-	-
Newfoundland	"	-	-	470,293	25,126
Other Countries	"	-	-	135,725	9,541
Corn in cans, etc.	"	4,440,794	295,077	-	-
United States	"	4,440,794	295,077	-	-
Peas in cans, etc.	"	4,091,362	315,618	-	-
United Kingdom	"	100	32	-	-
United States	"	1,552,613	133,963	-	-
Belgium	"	2,247,277	151,291	-	-
Other Countries	"	291,372	30,324	-	-
Tomatoes in cans, etc.	"	2,044,054	120,813	1,364,214	83,118
United Kingdom	"	-	-	607,115	39,820
United States	"	837,776	37,301	477,810	26,695
Italy	"	1,154,462	81,006	-	-
Other Countries	"	51,816	2,506	279,289	16,603
Vegetables n.o.p. in cans, etc.	"	5,249,822	484,509	2,411,375	191,729
United Kingdom	"	3,164	2,131	765,176	61,117
United States	"	3,524,215	290,999	2,750	799
Belgium	"	389,464	27,523	-	-
British South Africa	"	-	-	273,864	22,166
France	"	296,229	44,394	-	-
Hong Kong	"	337,965	35,110	-	-
Italy	"	93,517	8,849	-	-
Japan	"	140,977	28,411	-	-
Netherlands	"	97,604	9,128	-	-
New Zealand	"	-	-	308,952	23,315
Spain	"	303,638	30,666	-	-
Other Countries	"	63,049	7,298	1,060,633	84,332
Asparagus in cans, etc.	"	1,699,694	249,262	-	-
United States	"	1,699,521	249,228	-	-
Other Countries	"	173	34	-	-
Total canned vegetables	"	18,476,049	1,531,193	18,825,195	1,301,702
GRAND TOTAL, CANNED FRUITS AND VEGETABLES	"	58,329,748	4,463,097	23,562,593	1,687,258

SECTION II. FRUITS AND VEGETABLES, EVAPORATED.

This section of the industry deals with the evaporation and dehydration of fruits and vegetables in Canada and the provinces, the principal statistics of which are compared in the subjoined table for the calendar years 1926, 1927 and 1928.

Principal Statistics of Evaporating Plants, 1926-1928.

Principal Statistics		1926	1927	1928
Establishments reporting	No.	34	36	26
Capital invested	\$	485,917	392,312	257,646
Employees on salaries -				
Males	No.	14	12	6
Females	No.	1	-	-
Salaries	\$	6,966	11,400	8,450
Employees on wages (average for season)				
Males	No.	249	224	148
Females	No.	375	301	236
Wages paid	\$	79,748	94,576	59,200
Fuel used, cost value	\$	24,830	27,889	18,361
Powers installed -				
Units	No.	43	41	37
Capacity	H.P.	310	336	237
Cost of materials	\$	115,218	132,910	116,071
Gross value of products	\$	270,389	309,959	259,180
Value added by manufacture	\$	155,171	177,049	143,109

Production Statistics
1928

Statistics of production in the 26 plants reporting in 1928 of which 22 were in Ontario, 3 in Nova Scotia and 1 in British Columbia are presented in Table 1, by provinces. The total value of products fell from \$309,959 in 1927 to \$259,180 in 1928 or a decrease in production of \$50,779 or 16.4 per cent. Ontario produced 47.4 per cent of the total value of output, Nova Scotia 26.4 per cent and British Columbia 26.2 per cent. In addition to the production of dried and evaporated apples reported by evaporating plants there was a further production in canning plants of \$30,594 and in vinegar, pickles, etc. plants of \$51,257, making a total output for dried and evaporated apples of 2,526,399 lbs. with a valuation of \$309,039. (See table on p. 2).

Table 1. Production by Provinces, 1928.

Classes of Products		CANADA		Nova Scotia		Ontario and British Columbia	
		Quantity	Selling Value	Quantity	Selling Value	Quantity	Selling Value
			\$		\$		\$
Evaporated apples 1/	Lb.	1,826,155	227,188	498,090	60,479	1,328,065	166,709
Apple chop and waste 1/	Lb.	1,189,961	31,992	390,500	7,811	799,461	24,181
Total selling value		-	259,180	-	68,290	-	190,890

1/ Data here given do not necessarily represent the total Canadian production of these commodities since they are also produced in other industries.

SECTION II. FRUITS AND VEGETABLES, EVAPORATED.

Capital Investment

The amount of capital invested in the evaporating section of the industry in 1928 is shown by provinces in Table 2. Fixed capital in the 26 plants reporting which includes land, buildings, machinery and tools decreased from \$306,861 in 1927 to \$257,646 in 1928, or a decrease of nearly 16 per cent. Working capital which includes materials on hand, stocks in process of manufacture, finished products, cash, trading and operating accounts, etc., decreased from \$85,451 to \$62,327 or about 30 per cent. The province of Ontario provided 56.2 per cent of the total investment, Nova Scotia 23.9 per cent and British Columbia 19.9 per cent.

Table 2. Capital Investment by provinces, 1928.

Provinces	Fixed Capital	Working Capital		Total Capital
	Land, buildings, machinery and tools	Materials on hand, stocks in process, etc.	Cash, trading and operating accounts, etc.	
	\$	\$	\$	\$
CANADA	195,319	35,961	26,366	257,646
Nova Scotia	42,985	3,322	14,769	61,576
Ontario	115,602	19,055	10,304	144,961
British Columbia	36,732	13,084	1,293	51,109

Employment Statistics

Statistics of employment in the "Evaporated Fruit and Vegetable" Section for the calendar year 1928 are shown by provinces in the following series of tables:-

Table 3. Employees by number, sex and remuneration.

Table 4. Employment by months according to sex.

Table 5. Working time of plants and employees.

Table 3. The number of persons employed during 1928 is shown in the table by sex and the payment of salaries and wages. The number of salaried persons decreased by six as compared with 1927 and the salaries by \$2,950. In the wage-earning class of employees the number engaged in 1928 decreased from that of the preceding year by 201 and the amount paid for wages by \$35,376. Males employed on wages totalled 148 in 1928, a decrease of 76 from 1927, whilst female employment fell from 361 in 1927 to 236 in 1928, or a decrease of 125 in number.

Table 3.- Employees by Number, Sex and Remuneration, 1928.

Classes of Employees	Number of Employees		Salaries and Wages
	Males	Females	
	No.	No.	\$
Salaried employees	6	-	8,450
Wage-earning employees	148	236	59,200
Outside piece workers	-	29	6,232
Total	154	265	73,882

SECTION II. FRUITS AND VEGETABLES, EVAPORATED

Employment Statistics (Cont'd).

In Table 4 the statistics of employment by months are given which indicate the seasonal character of the industry. The month of highest employment was that of November when a total of 424 individuals were entered on the pay roll. During the first eight months of the year employment is furnished to packers, shippers, etc., whilst manufacturing operations occupy the other four. The average number of employees in all plants operating during the year was 148 males and 236 females or a total employment of 384.

Table 4.- Employment by Months, 1928.

Months	Male	Female	Months	Male	Female
January	31	36	July	3	2
February	25	9	August	19	24
March	23	8	September	84	107
April	20	1	October	160	238
May	3	1	November	175	249
June	2	2	December	115	127
Total				660	804
Average employment of operating plants				148	236

Operating time.- The number of days on which plants were in operation during 1928 together with the number of hours normally worked by wage-earners is shown in Table 5. Again the seasonal character of the industry is indicated by the operating time which averaged 58.38 days on full and part time, whilst the average time of idleness in plants was 245.62. Compared with 1927, operating time in plants increased by an average of over .68 days for each plant, whilst the working time of employees shows a variation of 1.80 hours per week.

Table 5.- Operating time of plants and employees, 1928.

Number of establishments in operation	26	
	Totals	Averages per plant
Days in operation on full time	1,293	49.73
Days in operation on part time	225	8.65
Days idle	6,386	245.62
Hours worked by wage-earners per day or shift	250	9.62
Hours worked by wage-earners per week	1,515	58.27

The number and percentage of wage-earners in months of highest employment working specified hours per day is shown in Table 5(a) for Canada and the provinces. For the Dominion, the number working specified hours was distributed between the classes, the percentage working 10 hours being highest. In Nova Scotia over 68 per cent of the employees worked 10 hours per day, in Ontario 72.15 per cent worked 10 hours, whilst in British Columbia 60.49 per cent worked 9 hours. Less than three per cent of the wage-earners in the Dominion worked over 10 hours per day.

Table 5(a). Hours worked by wage-earners in month of highest employment, 1928.

Provinces	Wage-earners in month of highest employment working per day of				Percentage of wage-earners working per day of			
	8 hours or less	9 hours	10 hours	Over 10 hours	8 hours or less	9 hours	10 hours	Over 10 hours
	No.	No.	No.	No.	p.c.	p.c.	p.c.	p.c.
CANADA	26	135	313	14	5.33	27.66	64.14	2.87
Nova Scotia	26	1	62	2	28.57	1.10	68.13	2.20
Ontario	--	85	228	3	-	26.90	72.15	.95
British Columbia	--	119	23	9	-	60.49	28.40	11.11

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SECTION II. FRUITS AND VEGETABLES, EVAPORATED.

Employment Statistics (Cont'd.)

The number of hours worked per day in the month of highest employment and the standard working hours per week are shown by provinces in Table 5(b). It should be noted that whilst the statistics relating to hours of labour in columns 1, 2 and 3 are based on figures compiled for the month of highest employment, those in columns 4 and 5 represent the total and average of standard weekly hours of labour for the number of establishments reporting to the Bureau. For this reason the relation between daily and weekly hours of labour is to some extent impaired. The average daily hours of labour on the above basis was for the Dominion 9.65, whilst the average standard weekly hours worked out at 57.60 per plant.

Table 5(b).— Hours of labour per day and per week, 1928.

Provinces	Total daily hours and number of wage-earners in month of highest employment			Standard working hours per week	
	Total hours	Total wage-earners	Average hours per day per wage-earner	Total	Average
	No.	No.	No.	No.	No.
CANADA	4,700	488	9.65	1,497	57.60
Nova Scotia	858	91	9.43	173	57.67
Ontario	3,076	316	9.73	1,270	57.73
British Columbia	766	81	9.46	54	54.00

Fuel Consumption

The quantity and cost value delivered at the works of the fuel consumed by this industry during the calendar year is presented in Table 6. The total cost of fuel decreased from \$27,889 in 1927 to \$18,361 in 1928. Coke again was the principal fuel used and represented 46.3 per cent of the total cost.

Table 6.— Fuel Consumed by Classes, 1928.

Kind of fuel			Quantity	Cost value delivered at works
				\$
Bituminous coal	ton		301	2,421
Anthracite coal	"		400	5,595
Lignite coal	"		—	—
Coke	"		911	8,514
Gasoline	gal.		116	35
Wood	cords		30	161
Gas, artificial and natural	M.C.ft.		84	53
All other fuel, unspecified	—		—	1,354
Total cost of fuel			—	18,361

SECTION II. FRUITS AND VEGETABLES, EVAPORATED.

Power Installation

Power installed in the evaporating section of the industry during the calendar year 1928 is shown in Table 7 by (a) classes of power, (b) number of units in each class and (c) the horse power capacity according to manufacturer's rating. The decrease in horse power installed over the previous year was 99, which was accounted for by the decrease in hydraulic turbines and internal combustion engines. The cost of electricity purchased in 1928 was \$1,744, a decrease from 1927 of \$1,112.

Table 7.- Power Installation, 1928.

Classes of power	Number of Units	Horse power capacity
Steam engines and turbines	-	-
Oil, gas and gasoline engines	7	40
Hydraulic turbines or water wheels	1	15
Total primary power	8	55
Electric motors operated by purchased power	29	182
Total power installation for manufacturing purposes	37	237

Materials Used.

The quantity and cost value of the principal materials used in this section of the industry is given by provinces in Table 8. The quantity of apples used in 1928 was 7,822,280 pounds less than in 1927, while the cost value was \$11,309 less. The cost of containers likewise decreased from \$17,783 in 1927 to \$12,978 in 1928. Other unspecified materials also decreased during the period by \$725.

Table 8.- Materials Used by Provinces, 1928.

Principal Materials	CANADA		Ontario		Other Provinces 1/	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Pounds	Value \$	Pounds	Value \$	Pounds	Value \$
Apples	18,635,767	100,193	7,721,475	44,127	10,914,292	56,066
Containers, labels, etc.	-	12,978	-	6,307	-	6,671
All other materials	-	2,900	-	1,090	-	1,810
Total cost	-	116,071	-	51,524	-	64,547

1/ Nova Scotia and British Columbia.

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

TO: DIRECTOR, BUREAU OF LAND MANAGEMENT
FROM: SAC, [illegible]
SUBJECT: [illegible]
DATE: [illegible]

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SECTION II. FRUITS AND VEGETABLES, EVAPORATED

Imports and Exports

Table 9 gives the quantity and value of dried and evaporated fruits and vegetables imported and exported during the calendar year 1928 by principal countries. Whilst the value of imports increased by \$222,339 the value of exports had decreased from \$155,799 in 1927 to \$99,564 in 1928, or over 36 per cent. Over 93 per cent of the value of imports came from the United States, while exports had a total value of \$2,013. Imports from the United Kingdom totalled \$9,627 and exports \$8,545.

Table 9.- Imports and Exports of Dried and Evaporated Fruit and Vegetables by Countries, 1928.

		Imports		Exports	
		Quantity	Value \$	Quantity	Value \$
Apples, dried	Lb.	1,494,952	44,123	780,066	97,519
United Kingdom	"	-	-	70,312	8,545
United States	"	1,494,952	44,123	-	-
Germany	"	-	-	475,625	61,989
Netherlands	"	-	-	113,086	13,225
Other Countries	"	-	-	121,043	13,760
Apricots, dried	"	1,945,743	229,804	-	-
United Kingdom	"	15,445	2,544	-	-
United States	"	1,927,441	226,812	-	-
Other Countries	"	2,857	448	-	-
Peaches, dried	"	2,351,096	225,422	-	-
United States	"	2,351,096	225,422	-	-
Other Countries	"	-	-	-	-
All other dried fruits	"	859,939	106,651	14,187	2,045
United Kingdom	"	104,472	7,062	-	-
United States	"	541,103	71,991	13,937	2,013
Hong Kong	"	84,944	17,914	-	-
Other Countries	"	129,420	9,684	250	32
Potatoes, dried, desiccated, etc.	"	-	5,118	-	-
United Kingdom	"	-	21	-	-
United States	"	-	4,135	-	-
Other Countries	"	-	962	-	-
Vegetables dried	"	-	-	-	-
United States	"	-	-	-	-
Other Countries	"	-	-	-	-
Total	"	-	611,118	-	99,564
<u>Summary</u>					
Dried Fruits	Lb.	6,651,730	606,000	794,253	99,564
Dried Vegetables	"	-	5,118	-	-

1/ Exclusive of currants, dates, figs, prunes and raisins.

RESEARCH REPORT ON THE EFFECTS OF THE 1960-1961 WINTER STORMS ON THE WILSON'S PHOEBASTICUS

January 1962

The purpose of this report is to provide a summary of the results of the research conducted during the winter of 1960-1961. The research was conducted in the coastal areas of the United States, where the Wilson's Phoebasticus is known to winter. The results of the research are presented in the following sections:

1. Description of the winter storms and their effects on the Wilson's Phoebasticus.

2. Description of the research methods and procedures.

3. Results of the research, including the number of birds observed, the number of birds that died, and the number of birds that were injured.

4. Discussion of the results and their implications for the future.

5. Conclusion.

6. Acknowledgments.

7. References.

8. Appendix.

9. Index.

10. Glossary.

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12. List of Tables.

13. List of Abbreviations.

14. List of Symbols.

15. List of Units.

16. List of Acronyms.

17. List of Initials.

18. List of Dates.

19. List of Times.

20. List of Locations.

21. List of Species.

22. List of Genus.

23. List of Family.

SECTION III.- FRUITS PRESERVED, (JAMS AND JELLIES, ETC.)

Establishments whose principal products are preserved fruits, jams, jellies, etc. are dealt with in this section. The number of such plants reporting operations during the calendar year 1928 was 45, a decrease of 1 plant over the previous year. According to location, 22 were situated in Ontario, 8 in British Columbia, 11 in Quebec, 1 in Nova Scotia and 1 in each of the provinces of Manitoba, Saskatchewan and Alberta.

Production

The quantity and selling value at the factory of the various products of the industry are shown in Table 1 of the section. The total value of production rose from \$6,980,198 in 1927 to \$7,849,020 in 1928, an increase of \$868,822 or nearly 12.5 per cent. Ontario's production represented 58.2 per cent of the total, Quebec's was 25.8 per cent and British Columbia 15.5 per cent. Jams represented over 54 per cent of the total value of production with marmalades in next position with 9.9 per cent.

Table 1. Products of the Preserved Fruits, etc. Section, by Provinces, 1928.

Products 3/		CANADA		Ontario		British Columbia		Quebec		Other Provinces 1/	
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
			\$		\$		\$		\$		\$
Jams	lb.	36,793,902	4,246,082	24,739,773	2,553,164	6,140,987	809,510	5,873,142	879,408	40,000	4,000
Jellies	"	2,281,091	273,775	1,204,026	132,521	765,556	107,026	304,509	33,428	7,000	800
Marmalades	"	7,352,954	775,080	5,791,188	602,368	1,163,759	126,097	160,311	19,437	237,696	27,178
Fruits, crushed, etc.	gal.	129,885	375,705	89,173	264,960	-	-	40,712	110,245	-	-
Fruits, glace	lb.	766,546	262,634	262,110	90,471	32,332	12,681	472,104	159,482	-	-
Syrups, fountain, etc.	gal.	363,475	322,315	37,121	119,149	-	-	326,354	203,166	-	-
Catsup and relishes	"	376,412	529,869	227,064	397,375	4,500	3,000	144,848	129,494	-	-
Pickles, all kinds	"	329,355	281,546	2,970	5,400	40,000	55,000	286,385	221,146	-	-
Mince meat	lb.	1,514,756	156,983	1,322,956	133,037	162,200	20,986	25,600	2,560	4,000	400
Candied peel	"	1,348,329	193,209	305,285	37,051	287,394	49,593	675,650	106,565	-	-
Powders, custard, etc.	"	20,005	4,780	20,005	4,780	-	-	-	-	-	-
Peanut butter	"	478,820	70,343	61,820	7,443	-	-	417,000	62,900	-	-
All other products (value only) 2/		-	356,699	-	-	-	32,007	-	96,079	-	7,000
Total Value	-	-	7,849,020	-	4,569,332	-	1,215,900	-	2,024,410	-	39,378

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1/ Nova Scotia, Alberta, Saskatchewan and Manitoba.

2/ Includes, Canned fruits and vegetables, pie fillings, sugar butter, prepared mustard, salad dressing, vinegar, etc.

3/ Data here given do not necessarily represent the total Canadian production of these commodities since they are also produced in other industries.

SECTION III. FRUITS, PRESERVED.

Capital Investment

Fixed capital including land, buildings, machinery and tools increased by \$295,559, working capital, including materials and stocks on hand and in process of manufacture, etc., increased by \$520,139 making a net increase in capital investment in 1928 of \$815,698. Compared by provinces, Ontario supplied 60.3 per cent of the total capital investment, Quebec 26.2 per cent, British Columbia 13.1 per cent and the Other Provinces .4 per cent.

Table 2.- Capital Invested in the Preserved Fruit Section, 1928.

Provinces	Fixed Capital	Working Capital		Total Capital
	Land, buildings, etc. machinery and tools	Materials on hand, stocks in process, etc.	Cash, trading and operating accounts, etc.	
	\$	\$	\$	\$
CANADA	2,890,736	2,474,600	1,046,373	6,411,709
Ontario	1,862,033	1,369,263	633,698	3,864,994
British Columbia	287,094	412,199	137,328	837,121
Quebec	726,839	685,749	269,133	1,681,721
Other Provinces 1/	14,770	7,389	5,714	27,873

1/ Nova Scotia, Alberta, Saskatchewan and Manitoba.

Employment Statistics

Statistics relating to the various phases of employment are presented in the following series of tables:-

Table 3. Employees by numbers, sex and remuneration, 1928.

Table 4. Employment by months, 1928.

Table 5. Working time of plants and employees, 1928.

Employees by number, sex and remuneration during the calendar year 1928 are dealt with in Table 3. The number of employees on wages is the sum of averages of individual plants for the months they were in operation plus the number of salaried employees as reported under that heading on the annual schedule. The total number employed rose from 536 males and 898 females in 1927 to 559 males and 1,144 females in 1928. Salaries and wages increased from \$381,567 in 1927 to \$1,052,212 in 1928.

Table 3. Employees by Number, Sex and Remuneration by Provinces, 1928.

Classes of Employment		CANADA	Ontario 1/	Quebec	British Columbia	Other Provinces
Employees on salaries -						
Male	No.	152	81	53	17	1
Female	No.	58	41	15	2	-
Total salaries	\$	392,282	246,401	110,392	34,709	780
Employees on wages -						
Male	No.	396	202	103	86	5
Female	No.	658	289	276	89	4
Total wages	\$	648,072	352,644	194,808	95,669	4,951
Outside piece workers -						
Male	No.	11	11	-	-	-
Female	No.	428	423	5	-	-
Total paid	\$	11,858	11,743	110	-	-
Total employees -						
Male	No.	559	294	156	103	6
Female	No.	1,144	753	296	91	4
Total salaries and wages, etc.	\$	1,052,212	610,793	305,310	130,378	5,731

1/ The increase in number at employment is accounted for by the large number of outside piece workers employed in the province of Ontario.

SECTION III. FRUITS, PRESERVED

Employment Statistics - Cont'd.

Employment by Months.- The number of persons employed in each month of the year is given in Table 4 for the Dominion. The month of highest employment was July with a total enrolment of 1,263, whilst that of lowest employment was March with an enrolment of 740. The average number employed per individual establishment exclusive of outside piece workers was 1,054. The average employment as stated in Table 4, is not the average found by dividing by 12 but the sum of the individual averages per plant according to the months in operation.

Table 4.- Employment by Months, with Averages per Plant, 1928, for the Dominion.

Months	Males	Females	Months	Males	Females
January	295	495	July	452	811
February	297	455	August	437	632
March	280	460	September	448	731
April	279	486	October	438	729
May	296	470	November	404	752
June	420	579	December	359	649
Total by months				4,405	7,249
Average employment by individual plants				396	658

Working time of plants and employees.- The operating time in plants is shown according to (a) full time, (b) part time and (c) days plants were idle in Table 5. Compared with 1927 there was an increase of 10.48 days in the average operating time of plants but a decrease of .36 in the average hours worked per week. The daily hours of labour were the same in 1928 as in 1927 viz. 9.20 hours.

Table 5.- Working time of plants and employees, 1928.

Number of plants reporting	45	
	Totals	Averages
Days in operation -		
On full time	10,969	243.76
On part time	643	14.29
Days idle	2,068	45.95
Hours worked by 1,650 employees -		
Per day or shift, total	15,181	9.20
Per week	2,226	49.47

SECTION III. FRUITS, PRESERVED.

Employment Statistics - Cont'd.

The number and percentage of wage-earners in months of highest employment working specified hours per day is shown in Table 5(a) for Canada and the provinces. For the Dominion, the number working specified hours was distributed between the classes, the percentage working 10 hours being highest. In Ontario over 32 per cent of the employees worked 8 hours per day, in Quebec 58.40 per cent worked 10 hours whilst in British Columbia 63.36 per cent worked 8 hours. Only about 7 per cent of the wage-earners in the Dominion worked over 10 hours per day.

Table 5(a).- Hours worked by wage-earners in month of highest employment, 1928.

Provinces	Wage-earners in month of highest employment working per day of				Percentage of wage-earners working per day of			
	8 hours or less	9 hours	10 hours	Over 10 hours	8 hours or less	9 hours	10 hours	Over 10 hours
	No.	No.	No.	No.	p.c.	p.c.	p.c.	p.c.
CANADA	454	472	602	122	27.52	28.61	36.48	7.39
Ontario	267	223	219	109	32.64	27.26	26.77	13.33
Quebec	12	214	327	7	2.14	38.21	58.40	1.25
British Columbia	166	35	55	6	63.36	13.36	20.99	2.29
Other Provinces 1/	9	-	1	-	90.00	-	10.00	-

1/ Includes Nova Scotia, Manitoba, Saskatchewan and Alberta.

The number of hours worked per day in the month of highest employment and the standard working hours per week are shown by provinces in Table 5(b). It should be noted that whilst the statistics relating to hours of labour in columns 1, 2 and 3 are based on figures compiled for the month of highest employment, those in columns 4 and 5 represent the total and average of standard weekly hours of labour for the number of establishments reporting to the Bureau. For this reason the relation between daily and weekly hours of labour is to some extent impaired. The average daily hours of labour on the above basis was for the Dominion 9.20, whilst the average standard weekly hours worked out at 49.47 per plant.

Table 5(b).- Hours of labour per day and per week, 1928.

Provinces	Total daily hours and number of wage-earners in month of highest employment			Standard working hours per week	
	Total hours	Total wage-earners	Average hours per day per wage-earner	Total	Average per plant
	No.	No.	No.	No.	No.
CANADA	15,181	1,650	9.20	2,226	49.47
Ontario	7,478	818	9.14	1,085	49.32
Quebec	5,365	560	9.58	565	51.36
British Columbia	2,256	262	8.61	376	47.00
Other Provinces	82	10	8.20	200	50.00

SECTION III. FRUITS, PRESERVED.

Fuel Consumption

The quantity and the cost value delivered at the works of the various classes of fuel used in the Dominion during 1928 is shown by classes in Table 6. The total cost rose from \$67,317 in 1927 to \$70,096 in the year covered by this report, or a little more than 4.1 per cent. Coal was the principal fuel and represented 81.6 per cent of the total cost for the year.

Table 6.- Fuel consumed by classes, 1928.

Classes of Fuel	Unit of measure	Quantity	Cost Value at the factory \$
Bituminous coal	ton	8,098	54,190
Anthracite coal	ton	399	3,017
Coke	ton	254	1,189
Gasoline	gal.	2,731	573
Wood	cord	1,272	6,477
Gas, artificial and natural	m.c.ft.	4,291	4,159
All other fuel	-	-	491
Total fuel cost	-	-	70,096
Electricity for power only	-	-	13,336
Total cost of fuel and electricity	-	-	83,432

Power Installation

Power installation in this section of the industry is presented in Table 7 by (a) classes of power, (b) the number of units in each class and (c) the horse power according to manufacturer's rating. The cost of electricity purchased in 1928 was \$13,336.

Table 7.- Power Installed by Classes, 1928.

Classes of Power	Number of units	H.P. according to manufacturer's rating
Steam engines and turbines	11	200
Oil, gas and gasoline engines	1	20
Total primary power	12	220
Electric motors operated by purchased power	125	741
Electric motors operated by power owned	-	-
Total electric motors	125	741
Total power used for manufacturing purposes	137	961

SECTION III. FRUITS, PRESERVED

Materials Used

The quantity and cost value at the factory of the principal materials used in this section during 1928 are given in Table 8. Sugar was the largest individual item of materials with a total of 31,845,726 pounds worth \$1,705,597, fruits being second with a total of 24,870,699 pounds worth \$1,631,123. The third largest item in point of cost was that of containers, etc. to the value of \$1,195,092. The total cost of all materials was \$5,394,519 which represented an increase when compared with 1927 of \$799,423.

Table 8.- Materials used by quantity and cost value, 1928.

Kinds of Materials	Unit of measure	Quantity	Cost Value
			\$
Fruits for preserving, etc.	pound	24,870,699	1,631,123
Vegetables for canning, etc.	"	9,026,866	98,929
Sugar	"	31,845,726	1,705,597
Salt	"	554,309	4,449
Pectin	"	1,622,023	171,720
Glucose	"	6,805,487	258,089
Spices, all kinds	"	173,272	24,875
Vinegar	gal.	102,068	26,436
Alcohol	prf. gal.	804	2,919
Containers, labels, caps, etc. (value only)	-	-	1,195,092
All other materials (value only)	-	-	275,290
Total cost of materials	-	-	5,394,519

Imports and Exports

Table 9 shows the imports for consumption of jams, jellies and preserved fruits for the calendar year 1928 by principal countries. The value of imports decreased from \$338,304 in 1927 to \$335,774 in 1928. Over 56 per cent of the total quantity came from the United Kingdom, nearly 17.4 per cent from France, 9.7 per cent from the United States and 16.9 per cent from other countries. Exports of jams, jellies and preserved fruit amounted to \$10,895 in 1928.

Table 9.- Imports, Jams, Jellies and Preserved Fruit, 1928.

	Imports		Exports	
	Quantity	Value	Quantity	Value
		\$		\$
Jams, jellies and preserves, n.o.p. lb.	2,008,974	335,774	86,773	10,895
United Kingdom	1,131,486	148,349	12,278	1,115
United States	195,029	41,450	13,996	1,958
France	349,897	83,072	-	-
Italy	271,976	51,929	-	-
Other Countries	60,586	10,974	60,499	7,822

SECTION IV.- VINEGAR, CIDER, PICKLES, SAUCES AND RELISHES

The number of establishments engaged in the manufacture of vinegar, cider, pickles, sauces and relishes during 1928 was 62 distributed by provinces as follows:- Ontario 40, Quebec 6, British Columbia 6, Manitoba 5, Nova Scotia 2, Alberta 2 and New Brunswick 1.

Principal Statistics

A summary of the principal statistics of the industry in 1928 is presented in Table 1 for the provinces and the Dominion. Under "Other Provinces" are included Nova Scotia, New Brunswick and Alberta to prevent disclosure of statistics of individual establishments.

Table 1.- Principal Statistics, by provinces, 1928.

		CANADA	Ontario	Quebec	British Columbia	Manitoba	Other Provinces
Establishments	No.	62	40	6	6	5	5
Capital invested	\$	8,047,231	6,576,959	352,593	143,045	649,265	325,369
Employees on salaries -							
Male	No.	142	96	9	6	24	7
Female	No.	51	34	1	4	6	6
Total Salaries	\$	338,797	227,219	24,940	10,530	53,865	22,243
Employees on wages -							
Male	No.	649	548	29	17	20	35
Female	No.	533	411	2	16	75	29
Total Wages	\$	982,974	825,816	40,314	23,515	63,267	30,062
Outside piece-workers -							
Male	No.	1	-	-	1	-	-
Female	No.	10	-	-	2	-	8
Amount paid	\$	3,944	-	-	472	-	3,472
Power installed -							
Units	No.	554	508	8	14	13	11
Capacity	H.P.	2,954	2,692	21	56	101	84
Cost of fuel	\$	113,523	101,161	1,119	1,507	3,667	6,069
Cost of materials	\$	5,054,480	4,334,943	143,890	97,367	319,922	158,358
Gross value of products	\$	10,423,293	9,084,844	293,158	200,461	553,867	290,663
Net value of products	\$	5,368,813	4,749,901	149,568	103,094	233,945	132,305

SECTION IV.- VINEGAR, CIDER, PICKLES, SAUCES AND RELISHES.

Statistics of Production

The quantity and the selling value at the factory of the various products of the industry will be found in Table 2, by provinces. The total value of products increased from 1927 by \$1,712,342, the amount for 1928 being \$10,423,293. Ontario furnished 87.1 per cent of the total value of production, Manitoba 5.3 per cent, Quebec 2.9 per cent, British Columbia 1.9 per cent and "Other Provinces" 2.8 per cent. The leading item of production in 1928 was "Catsups, Sauces and Relishes" with a selling value of \$2,120,827 followed in order by "Baked Beans" with a value of \$2,012,416, "Pickles" with \$1,944,175 and "Vinegar" with \$1,479,589.

Table 2.- Production, by Provinces, 1928.

Principal Products 3/	Unit of measure	Canada		Ontario		Quebec		Manitoba		British Columbia		Other Provinces	
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Catsup, sauces, etc.	gallon	1,035,643	2,120,827	1,032,993	2,117,857	-	-	2,650	2,970	-	-	-	-
Canned soups	cases	207,641	595,044	207,641	595,044	-	-	-	-	-	-	-	-
Baked beans	cases	669,131	2,012,416	669,131	2,012,416	-	-	-	-	-	-	-	-
Vinegar	gallon	4,301,866	1,479,589	2,355,285	876,130	950,985	268,880	498,117	168,978	74,355	23,461	423,124	142,140
Pickles, all kinds	"	1,150,045	1,944,175	871,485	1,438,180	6,000	4,000	171,400	308,816	55,000	68,200	46,160	74,979
Prepared mustard	"	92,303	135,947	76,548	128,080	15,755	7,877	-	-	-	-	-	-
Fruit juices, etc. 2/	gallon	458,846	420,199	413,048	406,783	-	-	1,800	11,003	-	-	4,021	2,413
Sauerkraut	lb.	3,195,027	129,383	3,114,027	126,693	-	-	58,000	1,740	13,000	650	10,000	300
Cider	gallon	289,671	78,235	211,564	45,852	-	-	-	-	22,200	13,100	55,907	19,263
Salad dressing	"	84,862	262,080	84,467	261,185	-	-	250	600	-	-	145	291
All other products 1/	-	-	1,245,393	-	1,026,630	-	12,701	-	59,760	-	51,350	427,141	51,257
Total	-	-	10,423,293	-	9,084,844	-	293,458	-	553,861	-	200,461	-	290,663

1/ Includes canned macaroni, mincemeat, jams, marmalade, evaporated apples, apple butter, candied fruit peel, horseradish and other miscellaneous products.

2/ Includes fruit pectin.

3/ Data here given do not necessarily represent the total Canadian production of these commodities since they are also produced in other industries.

SECTION IV.- VINEGAR, CIDER, PICKLES, SAUCES AND RELISHES

Capital Investment

The amount of capital invested in the "Vinegar and Pickle Section" is shown under two heads for the Dominion and the provinces in Table 3. Fixed capital (including land, buildings, machinery and tools) amounted to \$3,718,184, whilst working capital (including materials and stocks on hand, fuel and finished products on hand, and cash trading and operating accounts) amounted to \$4,329,047, making a total investment of \$8,047,231, an increase since 1927 of 13.27 per cent. The province of Ontario alone furnished 81.7 per cent of the total investment during 1928.

Table 3.- Capital Invested by provinces, 1928.

Provinces	Fixed Capital	Working Capital		Total Capital
	Land, buildings, etc.	Materials on hand, etc.	Cash, trading and operating accounts, etc.	
	\$	\$	\$	\$
CANADA	3,718,184	3,417,465	911,582	8,047,231
Ontario	2,895,712	3,005,102	676,145	6,576,959
Quebec	250,947	42,121	59,525	352,593
Manitoba	367,037	182,184	100,044	649,265
British Columbia	41,231	84,682	17,132	143,045
Other Provinces	163,257	103,376	58,736	325,369

Employment Statistics

Statistics of employment in this section of the industry during 1928 are shown in the following series of tables:-

Table 4. Employees by numbers, sex and remuneration.

Table 5. Employment by months according to sex.

Table 6. Working time of plants and employees.

Employees by numbers, sex and remuneration.- Table 4 shows by classes of employees, the number, sex and the amounts paid in salaries and wages for the calendar year 1928, by provinces. The number of wage-earners is the sum of the averages of individual plants according to months in operation. Compared with 1927 the number of male employees increased by 45, females by 109 and the amount paid for salaries and wages, etc., by \$200,055. Over 78 per cent of the number employed and 79 per cent of the payments for salaries and wages is accounted for by the province of Ontario, with Manitoba in second place with 9 and 8.8 per cent respectively.

Table 4.- Employees by number, sex and remuneration by provinces, 1928.

Classes of employees		CANADA	Ontario	Quebec	Manitoba	British Columbia	Other Provinces
Salaried employees -							
Males	No.	142	96	9	24	6	7
Females	No.	51	34	1	6	4	6
Total Salaries	\$	338,797	227,219	24,940	53,865	10,530	22,243
Wage-earners -							
Males	No.	649	548	29	20	17	35
Females	No.	533	411	2	75	16	29
Total Wages	\$	982,974	825,816	40,314	63,267	23,515	30,062
Outside piece-workers -							
Males	No.	1	-	-	-	1	-
Females	No.	10	-	-	-	2	8
Total Payments	\$	3,944	-	-	-	472	3,472
Total employees -							
Males	No.	792	644	38	44	24	42
Females	No.	594	445	3	81	22	43
Total Salaries, Wages, etc.	\$	1,325,715	1,053,035	65,254	117,132	34,517	55,777

SECTION IV.- VINEGAR, CIDER, PICKLES, SAUCES AND RELISHES.

Employment Statistics

Employment by months.- The number of wage-earners employed during the year is shown by sex for the Dominion in Table 5. The months of maximum employment were July to November, the peak being reached in September with a total enrolment of 1,969, whilst the months of minimum employment were January to May with the lowest point in January with a total enrolment of 793, the average number of wage earners for the year being 1,182.

Table 5.- Wage-earners employed by months, 1928.

Months	Males	Females	Months	Males	Females
January	440	353	July	601	516
February	466	361	August	743	610
March	507	435	September	1,186	783
April	486	439	October	819	631
May	494	465	November	680	452
June	528	487	December	484	417
Total employees by months				7,434	5,949
Average employment per plants by months of operation				649	533

Working time of plants and employees.- The operating time of plants for the Dominion is shown in Table 5(a) according to full time and part time operations and by the number of days the plants were idle. Hours of labour of employees are shown by the day and the week.

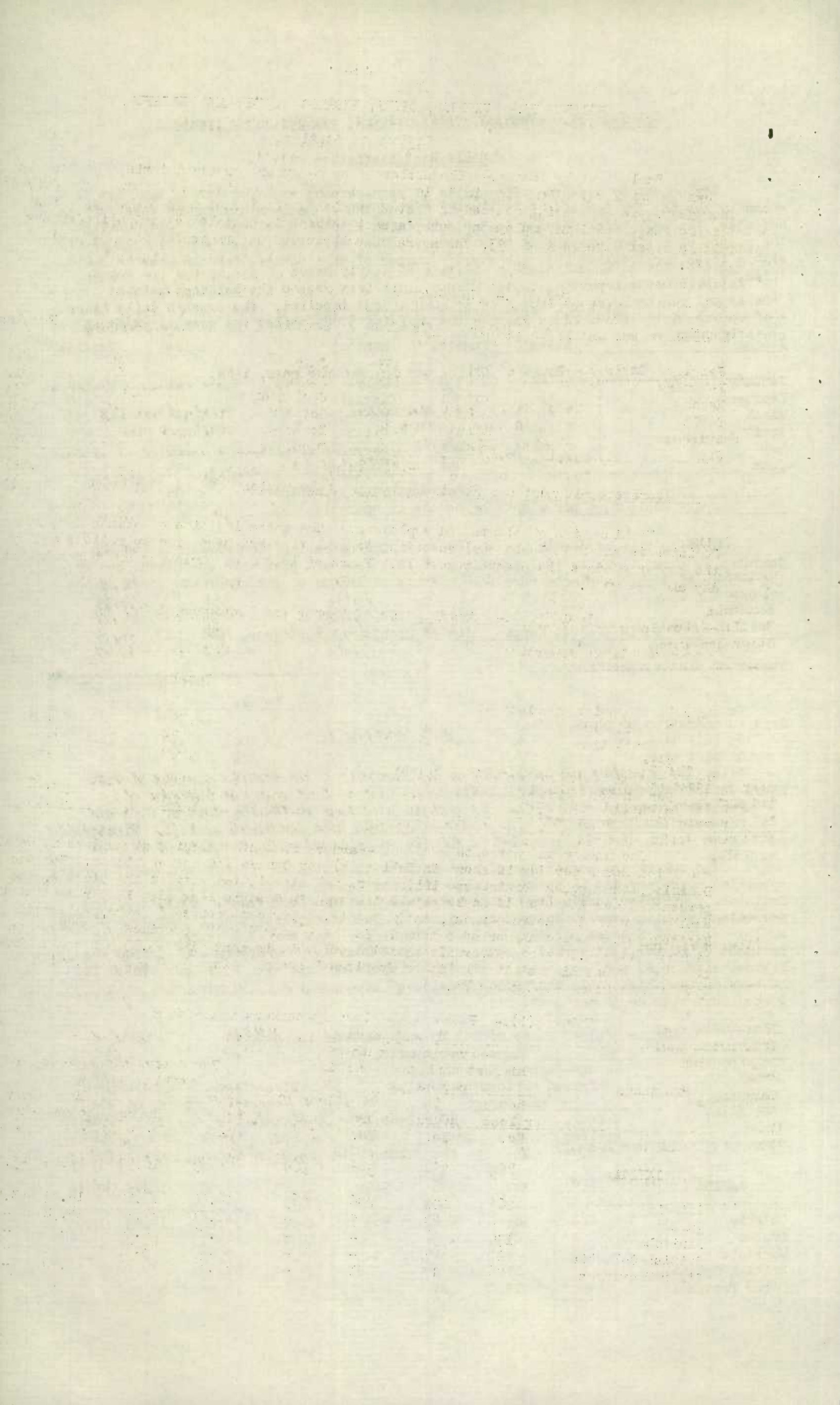
Table 5(a).- Working time of Plants and Employees, 1928.

Number of plants reporting	62	
	Totals	Average per plant
Days in operation of plant -		
On full time	12,304	198.45
On part time	874	14.10
Idle	5,670	91.45
Hours worked by employees - (no. 2,144)		
Per day or shift	20,631	9.62
Per week	3,046	49.13

The number and percentage of wage-earners in months of highest employment working specified hours per day is shown in Table 5(b) for Canada and the provinces. For the Dominion, the number working specified hours was distributed between the classes, the percentage working over 10 hours being highest. In Ontario less than 15 per cent of the employees worked 8 hours per day, in Quebec 10.81 per cent worked 8 hours, whilst in Manitoba 97.20 per cent worked 8 hours. In the 9 hour day the province of Quebec was highest with 64.87 per cent, whilst British Columbia is next with 43.75 per cent. The 10 hour day was highest in the "Other Provinces" group, being 67.50 per cent, with Quebec next with 24.32 per cent.

Table 5(b).- Hours worked by wage-earners in month of highest employment, 1928.

Provinces	Wage-earners in month of highest employment working per day of				Percentage of wage-earners working per day of			
	8 hours or less	9 hours	10 hours	Over 10 hours	8 hours or less	9 hours	10 hours	Over 10 hours
	No.	No.	No.	No.	P.c.	P.c.	P.c.	P.c.
CANADA	465	364	346	969	21.69	16.98	16.14	45.19
Ontario	269	302	256	969	14.98	16.82	14.25	53.95
Quebec	4	24	9	-	10.81	64.87	24.32	-
Manitoba	139	4	-	-	97.20	2.80	-	-
British Columbia	27	21	-	-	56.25	43.75	-	-
Other Provinces	26	13	81	-	21.67	10.83	67.50	-



SECTION IV.- VINEGAR, CIDER, PICKLES, SAUCES AND RELISHES.

Employment Statistics - Cont'd.

The number of hours worked per day in the month of highest employment and the standard working hours per week are shown by provinces in Table 6. It should be noted that whilst the statistics relating to hours of labour in columns 1, 2 and 3 are based on figures compiled for the month of highest employment, those in columns 4 and 5 represent the total and average of standard weekly hours of labour for the number of establishments reporting to the Bureau. For this reason the relation between daily and weekly hours of labour is to some extent impaired. The average daily hours of labour on the above basis was for the Dominion 9.62, whilst the average standard weekly hours worked out at 49.13 per plant.

Table 6.- Hours of Labour per day and per week, 1928.

Provinces	Total daily hours and number of wage-earners in month of highest employment			Standard working hours per week	
	Total hours	Total wage-earners	Average hours per day per wage-earner	Total	Average
	No.	No.	No.	No.	No.
CANADA	20,631	2,144	9.62	3,046	49.13
Ontario	17,605	1,796	9.80	1,936	48.40
Quebec	338	37	9.14	338	56.33
Manitoba	1,148	143	8.03	223	44.60
British Columbia	405	48	8.44	302	50.33
Other provinces	1,135	120	9.46	247	49.40

Fuel Consumption

The quantity and cost value at the factory of the various classes of fuel used in 1928 are shown in Table 7. The total cost of fuel shows an increase of \$10,009 when compared with 1927. The cost of Coal rose by \$9,577, Coke by \$473 and Oil, Gas and Gasoline by \$96, but on the other hand Wood decreased by \$137. Electricity purchased during the year amounted to \$12,800 as compared with an outlay of \$11,414 in 1927.

Table 7.- Fuel used by Classes, Quantity and Cost Value, 1928.

Classes of fuel	Unit of measure	Quantity	Cost Value
			\$
Bituminous coal	ton	18,679	101,738
Anthracite coal	"	178	2,145
Lignite coal	"	151	683
Coke	"	57	721
Gasoline	imp.gal.	1,150	314
Oil (fuel)	gal.	3,290	333
Wood	cord	901	5,797
Gas, artificial and natural	M.c.ft.	3,061	1,792
Total cost of fuel	-	-	113,523

SECTION IV.- VINEGAR, CIDER, PICKLES, SAUCES AND RELISHES

Power Installation

Power installation in the "Vinegar and Pickle" section of the industry is shown by classes in Table 8, according to (a) the number of units in each class and (b) the horse power according to the manufacturer's rating. Primary power decreased over 1927 by 2 horse power. Electric motors increased by 243 horse power, whilst the total power used for manufacturing purposes increased 135 h.p. The number of boilers installed for any purpose totalled 43 with a boiler h.p. capacity of 4,863.

Table 8.- Power Installation by Classes, 1928.

Classes of power	Number of Units	Horse power according to manufacturer's rating
Steam engines and turbines	17	853
Oil, gas and gasoline engines	23	70
Hydraulic turbines or water wheels	2	76
Total primary power	42	999
Electric motors operated by purchased power	257	1,045
Electric motors operated by power generated by establishment	255	910
Total electric motors	512	1,955
Total power for manufacturing purposes	299	2,044

Materials Used

The quantity and cost value at the factory of the various materials used in this section is presented in Table 9 for the calendar year 1928. The total cost of all materials increased over the preceding year by \$945,667.

Table 9.- Materials used, by classes, quantity and value, 1928.

Classes of materials	Unit of measure	Quantity	Cost Value at factory
			\$
Fruits for canning, etc.	pound	15,087,049	240,861
Vegetables for canning, pickling, etc.	"	65,759,801	867,580
Sugar	"	6,968,886	412,487
Salt	"	2,899,505	16,257
Pectin	"	55,648	5,853
Glucose	"	135,300	5,861
Spices, all kinds	"	176,996	50,872
Vinegar	gal.	422,441	99,132
Cider	"	8,726	2,784
Alcohol (inc. duty)	prf.gal.	491,289	303,993
Vinegar materials n.e.s.(value only)	-	-	74,014
Containers, labels, caps, etc. (value only)	-	-	2,251,337
All other materials (value only)	-	-	723,449
Total cost of materials	-	-	5,054,480

SECTION IV.- VINEGAR, CIDER, PICKLES, SAUCES AND RELISHES

Imports and Exports

The quantity and value of Pickles, Sauces and Relishes, Vinegar, etc., imported for consumption in Canada is shown by principal countries in Table 10. The total value of such imports during the calendar year 1928 was \$689,404 as compared with \$749,412 in 1927.

The quantity and value of goods the produce of Canada exported is also shown in the same table for the calendar year 1928 amounting to \$533,653. Comparative figures for 1927 show a total value of imports amounting to \$731,156, a decrease of \$197,503.

Table 10.- Imports and Exports of pickles, sauces, vinegar, etc.
during the calendar year 1928.

Articles by countries		Imports		Exports	
		Quantity	Value	Quantity	Value
Pickles in bottles, jars, etc. - Total	gal.	65,944	\$ 99,084	-	-
United Kingdom	"	36,737	51,839	-	-
United States	"	20,495	35,590	-	-
Newfoundland	"	-	-	-	-
Other Countries	"	-	-	-	-
Pickles in bulk - Total	"	31,230	24,526	-	-
United Kingdom	"	2,041	2,202	-	-
United States	"	7,876	6,638	-	-
Japan	"	19,213	13,932	-	-
Other Countries	"	2,100	1,754	-	-
Sauces and catsup in bottles - Total	"	231,160	404,579	-	519,525
United Kingdom	"	129,047	215,598	-	482,158
United States	"	93,230	178,563	-	8,673
Other Countries	"	8,883	10,418	-	28,694
Sauces and catsup in bulk - Total	"	44,630	30,233	-	-
United Kingdom	"	167	153	-	-
United States	"	30,691	21,038	-	-
Other Countries	"	13,772	9,042	-	-
Sauces, soy - Total	"	103,251	41,674	-	-
United Kingdom	"	933	665	-	-
United States	"	1,280	793	-	-
Japan	"	64,997	26,176	-	-
Other Countries	"	36,041	14,040	-	-
Vinegar and strength not above proof-Total	"	155,496	79,616	-	-
United Kingdom	"	67,670	18,704	-	-
United States	"	77,623	54,881	-	-
Other Countries	"	10,203	6,031	-	-
Vinegar above proof strength - Total	"	33,530	9,441	29,522	12,505
United Kingdom	"	3,972	5,197	4,762	1,812
United States	"	24,558	4,244	23,521	10,147
Other Countries	"	-	-	1,239	546
Cider, not clarified or refined - Total	"	40	11	-	-
United States	"	40	11	-	-
Cider, clarified or refined - Total	"	75	240	2,543	1,623
United Kingdom	"	22	110	250	180
United States	"	5	12	1,795	1,098
Other Countries	"	48	118	498	345
Totals	"	665,356	689,404	-	533,653
<u>Summary -</u>					
Pickles, sauces, etc.	Gal.	476,215	600,096	-	519,525
Vinegar	"	189,026	89,057	29,522	12,505
Cider	"	115	251	2,543	1,623

STATE OF NEW YORK

IN SENATE

January 1, 1901

REPORT OF THE

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IN RESPONSE TO A RESOLUTION PASSED BY THE SENATE

APRIL 1, 1899

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APPENDIX

Fruit and Vegetable Canning in Operation in Canada, 1928.

<u>Name</u>	<u>Address</u>
<u>NOVA SCOTIA</u>	
1. Parker Packing Company	Bridgetown
2. Provincial Cannery, Ltd.	Waterville
3. Stirling, A.R.	Wolfville
4. United Fruit Companies of N.S., Ltd.	Aylesford
5. Western Cannery (Maritime) Ltd.,	Berwick
<u>NEW BRUNSWICK</u>	
1. Western Cannery (Maritime) Ltd.,	Coldbrook
<u>QUEBEC</u>	
1. Beaconsfield Preserving & Canning Co.	Beaconsfield
2. Beaudoin, Cleophas	9679 St. Laurent, Montreal
3. Bussieres, C.A.	Vercheres
4. Canadian Cannery, Ltd.	St. Isidore
5. Clark, Wm. Ltd.	St. Remi
6. La Cie de Conserves Moderne	Notre Dame de Pierreville
7. La Cie de Conserves de Yamaska	St. Francois du Lac
8. Ferland, J.A. & Fils	Berthier en Haut
9. Gamache, Marc	7295 rue Chabot, Montreal
10. De Gruchy Canning Co.	Laprairie
11. Grégoire, A.D.	Henryville
12. Lassonde, J.T.	Boucherville
13. Lassonde, Aristide	St. Michel de Rougemont
14. Lemay & Lemay	St. Pierre les Becquets
15. Loggie, A. & R. Co. Ltd.	Les Escoumains
16. Loggie, W.S. Co. Ltd.	Les Escoumains
17. Loggie, W.S. Co. Ltd.	Mille Vaches
18. Lorrain, Wilfred	Abord-à-Plouffe
19. Lord, David	St. Jean, R.R. 1
20. La Société Coopérative Agricole de St. Guillaume d'Upton	St. Guillaume d'Upton
21. La Société des Horticulteurs de Portneuf	Deschambault
22. Le Syndicat Coopératif de Conserves de Ste. Marie Salomé	Ste Marie Salomé
23. Le Syndicat Coopératif de Neuville,	Neuville
24. La Société Coopérative des Pêcheurs de Carleton	Carleton
25. Le Séminaire de St. Sulpice Oka,	Oka
26. Materazzo, Antonio	7089 rue de St. Valier, Montreal
27. McMeekin, David	Valleyfield
28. Maheu, Pacifique	6995 De la Roche, Montreal
29. Pesent, Ernest	St. Eustache
30. Rouville Cannery Co. Ltd.	St. Césaire
31. Windsor, J.W., Ltd.	Grandes Bergeronnes
32. Windsor, J.W., Ltd.	Mille Vaches
33. Windsor, J.W., Ltd.	Roberval
34. Windsor Canning Co. Ltd.	Napierville
35. Windsor Canning Co. Ltd.	St. Johns
<u>ONTARIO</u>	
1. Associated Quality Cannery, Ltd.	Bloomfield
2. " " " "	Cottam
3. " " " "	Deseronto
4. " " " "	Essex
5. " " " "	Hamilton
6. " " " "	Harrow
7. " " " "	McGaughey

1954

Fruit and Vegetable Canneries in Operation in Canada, 1928 - Cont'd.

Name	Address
<u>ONTARIO - Cont'd.</u>	
8. Belleville Cannery, Ltd.	37 Albion St. Belleville
9. Benson, W.H.	Pictou
10. Boulter & Collier Canning Co.	Cherry Valley
11. Brantford Canning Co. Ltd.	Brantford
12. Brantcomb Canning Co.	Colborne
13. Canadian Cannery, Ltd.	Amherstburg
14. " " "	Aylmer
15. " " "	Belle River
16. " " "	Blenheim
17. " " "	Bloomfield
18. " " "	Brampton
19. " " "	Bramptonville
20. " " "	Brighton
21. " " "	Burlington
22. " " "	Burlington
23. " " "	Chatham
24. " " "	Cobourg
25. " " "	Colborne
26. " " "	Dalhousie
27. " " "	Dundas
28. " " "	Dunnville
29. " " "	Exeter
30. " " "	Fonthill
31. " " "	Frankford
32. " " "	Frankford
33. " " "	Grafton
34. " " "	Grimshy
35. " " "	Haldimand
36. " " "	Jordan Station
37. " " "	Lakeport
38. " " "	Napanee
39. " " "	Niagara-on-the-Lake
40. " " "	Northport
41. " " "	Pictou
42. " " "	"
43. " " "	"
44. " " " (Westlake)	Pictou, R.R. 1
45. " " "	Port Burwell
46. " " "	Port Dalhousie
47. " " "	Port Hope
48. " " "	Rednersville
49. " " "	Ridgeway
50. " " "	St. Catharines
51. " " "	St. David
52. " " "	Simcoe
53. " " "	Stoney Rovers
54. " " "	Strathroy
55. " " "	Tilbury
56. " " "	Wineland
57. " " "	Waterford
58. " " "	Wellington
59. " " "	"
60. " " "	West Lorne
61. Cressy Canning Company (Cressy)	Pictou, R.R. 5
62. Crockett, John E.	68 Gage Ave. Mount Hamilton
63. Ellis Canning Company	Niagara Falls
64. Eureka Canning Company, Ltd.	Nottawa
65. Folkard Canning Co. Ltd. (Bethel)	Pictou, R.R. 6
66. Greer Bros.	Wellington
67. Havens, Irvin S.	St. Catharines, R. R. 1
68. Henrie, Emile	Clarence
69. Huron Canning & Evaporating Co. Ltd.	Goderich

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Fruit and Vegetable Canneries in Operation in Canada, 1928 - Cont'd.

<u>Name</u>	<u>Address</u>
<u>ONTARIO - Cont'd.</u>	
70. Kinney Canning Company	Pictou
71. Nesbitt, E.J., Canning Company	Brighton
72. Orser, S.R.	Bloomfield
73. Orser, C. (Northern Canning Co.)	New Liskeard
74. O'Mara, Hubert J. (Lincoln Canning Co.)	St. Catharines
75. Port Dover Canning Co. Ltd.	Port Dover
76. " " " " "	Vineland Station
77. Quinte Canning Company, (J.D. Hepburn)	Pictou
78. Smart Bros. Ltd.	Collingwood
79. Smithfield Packing Co.	Smithfield
80. Sprague, J.G. & Sons	Mountain View
81. Spring Valley Cannery, Ltd.	Brighton
82. Tip Top Cannery, Ltd.	Burlington
83. " " " " "	Greenville
84. " " " " "	Otterville
85. Waupoos Canning Co. Ltd. (Waupoos)	Pictou, P.E.I.
86. Welch Grape Juice Co.	St. Catharines

MANITOBA

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|------------------------------|-----------------|
| 1. Kildonan Canning Co. Ltd. | East Kildonan ✓ |
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ALBERTA

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| 1. Broder Canning Co. Ltd. | Edmonton ✓ |
| 2. Broder Canning Co. Ltd. | Medicine Hat ✓ |

BRITISH COLUMBIA

- | | |
|---|-----------------------------|
| 1. Ashcroft Cannery, Ltd. | Ashcroft ✓ |
| 2. Broder Canning Co. Ltd. | Kamloops ✓ |
| 3. Broder Canning Co. Ltd. | Front St. New Westminster ✓ |
| 4. Cawston Co-operative Fruit & Canning Association | Cawston ✓ |
| 5. Cedar Hill Canning Co. Ltd. | P.O. Box 156, Victoria ✓ |
| 6. Dominion Cannery, B.C. Ltd. | Kelowna ✓ |
| 7. " " " " | Keremeos ✓ |
| 8. " " " " | Oliver ✓ |
| 9. " " " " | Penticton ✓ |
| 10. " " " " | 332 Drake St., Vancouver ✓ |
| 11. Farmers Canning Co. Ltd. | Mission City ✓ |
| 12. National Packers, Ltd. | 281 Central St. Vancouver ✓ |
| 13. Occidental Fruit Co. Ltd. | Kelowna ✓ |
| 14. Rowcliffe Canning Co. Ltd. | Kelowna ✓ |
| 15. Saanich Canning Co. Ltd. | Sidney ✓ |

Fruit and Vegetable Evaporators, Canada, 1928.

NOVA SCOTIA

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| 1. Forsyth, D.H. | Greenwich |
| 2. Kingston Evaporators, Ltd. | Kingston |
| 3. Union Dehydration Co. Ltd. | Greenwich |

ONTARIO

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|---------------------------|-----------------------|
| 1. Asquith, A. & Son | Auburn |
| 2. Benson, W.H. | Bloomfield |
| 3. Buck, J.L. | Port Rowan |
| 4. Canadian Cannery, Ltd. | Brighton |
| 5. Clapp, A.D. | Pictou |

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Fruit and Vegetable Evaporators, Canada, 1928 - Cont'd.

<u>Name</u>	<u>Address</u>
<u>ONTARIO - Cont'd.</u>	
6. Clark Bros.	Bloomfield ✓
7. Davis, Joel	Tingal ✓
8. Haines, P. & Son,	Clarksburg ✓
9. Hamilton, W.L.	Collingwood ✓
10. Holgate, John A. & Son	Bowmanville ✓
11. Hughes, L.	Wapreese ✓
12. Leavens & Lovelace	Bloomfield ✓
13. Mahler Bros.	Dresden ✓
14. Peacock, O.J.	Mitchell ✓
15. Reid & Gower	Thornbury ✓
16. Robinson, O.E. & Co.	Tillsonburg ✓
17. Shourds, L.K.	Trenton ✓
18. Shourds, L.K.	Wellington ✓
19. Town & Case	Thedford ✓
20. Town & Case	Meaford ✓
21. Vancise & Carpenter	Greenore ✓
22. Whitcomb, F.C.	Hardworth ✓

BRITISH COLUMBIA

1. Bulman's Ltd.	Vernon ✓
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Fruits Preserved (Jams, Jellies, etc.), 1928.

NOVA SCOTIA

1. Jack & Cardoza	Digby
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QUEBEC

1. Crawford Co. Ltd.	76 Chatham St., Montreal ✓
2. Eagles, John	1098 Drummond St., Montreal ✓
3. Dominion Preserving Co. Ltd.	8455 St. Dominique St., Montreal ✓
4. Labrecque & Pellerin	1081 St. Timothee St., Montreal ✓
5. Jos. M. Poirier (Mrs. Lukes, Regd.)	944 Calumet Ave, Montreal ✓
6. Old City Mfg. Co. Ltd.	120 St. Paul St., Quebec ✓
7. Preston's Pure Preserves, Ltd.	4566 De la Roche, Montreal ✓
8. Quebec Preserving Limited	23 Devarennnes, Quebec ✓
9. Alphonse Raymond	1830 rue Panet, Montreal ✓
10. Saxonia Fruit Preserving Co. Ltd.	75-17th Ave, Lachine ✓
11. La Cie Nationale de Beurre d'Erable, Ltée	51 Laurier Ave E., Montreal ✓

ONTARIO

1. Beasley, Wm.	48 Britain St., Toronto ✓
2. Betty's Ltd.	25 York Ave, Mount Dennis ✓
3. Bowes Co. Ltd.	58 Wellington St. E., Toronto ✓
4. Canadian Cannery, Ltd.	44 Hughson St. S., Hamilton ✓
5. Casson, John	812 Bloor St., Toronto ✓
6. Glassco, Limited.	Oakville ✓
7. The Glen Company, Ltd.	Glen Williams ✓
8. Hunt Mfg. Co.	2382 Dundas St. W., Toronto ✓
9. Jacobs, Geo. B.	Oakville ✓
10. Laing, R. D. & Co. Ltd.	171 Sheridan Ave, Toronto ✓
11. Lindner Co. Ltd.	Brampton ✓
12. Nicholson & Stetler	Waterdown ✓
13. St. Williams Preserves, Ltd.	Simco ✓
14. Shirreffs Limited	224 Matilda St. Toronto ✓
15. Smith, E. D. & Sons, Ltd.	Winona ✓
16. Smith, J. Hungerford Co. Ltd.	19 Terauley St., Toronto ✓
17. Thompson, E.B.	20 Front St. W., Toronto ✓

Fruits Preserved (Jams, Jellies, etc), 1928 - Cont'd.

Name

Address

ONTARIO - Cont'd.

18. Toronto Preserving Co.
19. Upton, T. Co. Ltd.
20. Wagstaffe, Limited
21. Wethey, J. H. Limited
22. Whitlaw, J. S. Ltd.

~~756 Queen St. W., Toronto~~
~~37 Delaware Ave., Hamilton~~
~~Cor. Maple & Cave Ave., Hamilton~~
~~St. Catharines~~
~~168 Grosvenor Ave. N., Hamilton~~

MANITOBA

1. Coles, S. W.

662 Pacific Ave, Winnipeg ✓

SASKATCHEWAN

1. J. W. A. Jarvis

Saskatoon

ALBERTA

1. Eaman's Limited

614-17th Ave W., Calgary ✓

BRITISH COLUMBIA

1. Empress Mfg. Co. Ltd.
2. Mrs. Haine, Ltd.
3. McDonald Jam Co. Ltd.
4. Majestic Mfg. Co. Ltd.
5. Robinson, William, Ltd.
6. Slaney, Chas. B.
7. Stanley, H.
8. Kootenay-Columbia Preserving Works

1106 Homer St., Vancouver ✓
 2645-4th Ave. W., Vancouver ✓
 Nelson ✓
 621-15th Ave. E., Vancouver ✓
 251-1st Ave. E., Vancouver ✓
 157 Water St., Vancouver ✓
 3380 Victory St. (Burnaby), Vancouver ✓
 Brilliant ✓

Vinegar, Cider, Pickles, Relishes, Sauces, etc. 1928

NOVA SCOTIA

1. Chappell, Claude C.
2. Graves, M. W. & Co. Ltd.

Amherst
 Bridgetown

NEW BRUNSWICK

1. McCready & Son

20-40 Camden St., St. John

QUEBEC

1. The Lion Vinegar Co. Ltd.
2. " " " "
3. La Manufacture Nationale de Vinaigre
(C. E. Boivin)
4. Pare, E.
5. Reid, W. G.
6. St. Lawrence Vinegar Mfg. Co.
(operated by Lion Vinegar Co. Ltd.)

661 Drolet St., Montreal ✓
 457 St. Germain St., Montreal ✓
 39 rue Sault-au-Matelot, Quebec ✓
 185½ rue Colombe, Quebec ✓
 4131 Henry Julien Ave, Montreal ✓
 92 St. Leon St., Quebec ✓

ONTARIO

1. Armour Co., W.B.
2. Bowron Bros.
3. Canada Vinegars, Ltd.
4. " " "
5. " " "
6. " " "
7. Canadian Cannery, Ltd.
8. Chandler, W. T.
9. Clark, Ltd., W.
10. Howard, Fred

~~6 Cherrymock Gardens, Toronto~~ ✓
~~105 Victoria Ave., N., Hamilton~~ ✓
~~112 Duke St., Toronto~~ ✓
~~137-139 James St. S., Hamilton~~ ✓
~~Bagot St., Kingston~~ ✓
~~Norwich~~ ✓
~~Brighton~~ ✓
~~near 106 Shuter St., Toronto~~ ✓
~~Harrow~~ ✓
~~150 Oak St., Toronto~~ ✓
~~112 Bathurst St., Toronto~~ ✓

⑪ Crosse & Blackwell Ltd

Vinegar, Cider, Pickles, Relishes, Sauces, etc, 1928 - Cont'd.NameAddressONTARIO - Cont'd.

12. Dietz, Henry H.	Clifford ✓
13. Douglas Packing Co. Ltd.	Cobourg ✓
14. Duthrie, Earl H.	650 Dufferin St., Toronto ✓
15. Gordon, D. B.	490 Mary St. N., Hamilton ✓
16. Grimsby Pickle Co. Ltd.	Grimsby ✓
17. Heinz, H. J. Co.	Leamington ✓
18. Hellman, Richard, Ltd.	422 Wellington St. W., Toronto 2 ✓
19. Horton-Cato Mfg. Co.	506 Dufferin Place, Windsor ✓
20. Euehn, W. H.	Baden ✓
21. Jantzi, Aaron W.	Wellesley ✓
22. Lapp Bros.	Markham ✓
23. Lealand Co.	Simcoe ✓
24. Libby, McNeill & Libby of Can. Ltd.	Chatham ✓
25. London Vinegar Works (Wm. Embleton)	96 King St., London ✓
26. Mackie Pure Food Co.	St. Catharines ✓
27. Metzger, Adam	Hanover ✓
28. McCrae Bros.	Arise ✓
29. National Canned Meats, Ltd.	521 Front St. E., Toronto ✓
30. Ontario Seed Co. (O. & J. Uffelmann)	12 King St., Waterloo ✓
31. Patterson, S. & Co.	Oakville ✓
32. Reinhart, B.E.	Stayner ✓
33. Routledge, G.H.	Lambeth ✓
34. Royal Mfg. Co.	1160 Dundas St. W., Toronto ✓
35. Sauder, J.B.	St. Jacobs ✓
36. Schreider, Mrs. Christina	Ayton ✓
37. Scott, W.B.	96 Wilson St., Woodstock ✓
38. Shantz, A.J.	R.R. 1, Heseler ✓
39. Stahl, E.A.	Kitchener ✓
40. Weber, Michael & Son	St. Clements ✓

MANITOBA

1. Dyson, David J., Ltd.	Myrtle St., Winnipeg ✓
2. Reynolds, Moore & Co. Ltd.	109 Higgins Ave., Winnipeg ✓
3. Taylor, W. A. & Co.	168 Provencher Ave, St. Boniface ✓
4. Western Vinegars Ltd.	1262 Selkirk Ave, Winnipeg ✓
5. Western Vinegars Ltd.	456 Redwood Ave, Winnipeg ✓

ALBERTA

1. Western Vinegars Ltd.	1906 Tenth Ave. W., Calgary
2. Blair, W.J. (now operated by Western Vinegars, Ltd.)	10507 - 98th St., Edmonton ✓

BRITISH COLUMBIA

1. Holsun Packing Co. Ltd.	851 Fisgard St., Victoria ✓
2. Ramsay & Musgrave	1004 Mainland St., Vancouver ✓
3. Syms, Wm. T.	Salmon Arm ✓
4. Vancouver Pickle Co. Ltd.	Granville Island, Vancouver ✓
5. Vernon Growers, Ltd.	Vernon ✓
6. Western Vinegars Ltd.	1365 Powell St., Vancouver ✓

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