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# THE FRUIT & VEGETABLE PACKING INDUSTRY

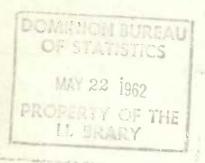
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# CANADA

1923

INCLUDING

- 1. FRUITS AND VEGETABLES, CANNED
  2. FRUITS AND VEGETABLES, DRIED ON EVAPORATED
  3. FRUITS, PRESERVED
  4. VINEGAR, PICKLES, SAUCES AND RELISHES



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1925

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#### DOMINION BUREAU OF STATISTICS.

#### CENSUS OF INDUSTRY

#### AWATTO GANADA

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

#### REPORT ON THE FRUIT AND VEGETABLE PACKING INDUSTRIES IN CANADA

#### 1923

Ottawa, April, 1925 .- A report is herewith presented on the Fruit and Vegetable Packing and Allied Industries in Canada for the calendar year 1923. Four separate sections, each of which is separately dealt with, are covered by the report, as fellews:-

Fruits and Vegetables, Cannod.
 Fruits and Vegetables, Dried and Evaporated.

3. Fruits, Proserved.

4. Vinegar, Cider, Pickles, Sauces and Relishes.

This classification of the industry permits of a comprehensive view of the various specific products such as "Canned fruits and vegetables" which appear in sections 1, 3 and 4; "Evaporated Fruits" in sections 1, 2 and 4; "Preserved fruits" in sections 1, 3 and 4 and "Vineger, Cider, Pickles, Sauces and Relishes" in sections 1, 2, 3 and 4. A summary table showing the total value of production of specific commodities for all four sections of the industry follows:-

Summary of Value of Production of Specific Commodities, 1923.

Products	Section 1 Value	Section 2 Value	Soction 3. Value	Section 4 Value	Total 4 Sections Value
Fruits, cannod Vegotables, cannod Fruits, evaporated Fruits, proserved Vinegar, pickles, etc. All other products	1,714,190 6,562,829 30,176 700,915 272,060 233,552	186,000		596,951 20,195 116,270 3,584,282 1,380,193	4,061,749
Totals	9,513,722	186,500	5,503;209	5,697,891	20,901,322

## NUMBER AND LOCATION OF PLANTS

Table 1 gives a comparative view of the numbers and location by provinces of the operating plants in each section of the industry for the calendar years 1922 and 1923.

Table 1. - Number and Location of Operating Plants, 1922 and 1923.

Provinces		and Vegetables	Fruits and Evapora		Fruits	Preserva
	1922	1923	1922	1923	1922	1923
CANADA	117	103	64	30	48	49
P. E. Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta Br. Columbia	5 9 12 79	3 7 11 72 -	- 9 - 5÷ - -	28	10 23 - 2	1 - 9 22 - 2 15

### THE FRUIT AND VEGETABLE PACKING INDUSTRIES IN CANADA 1923

## NUMBER AND LOCATION OF PLANTS, (continued)

Table 1. - Number and Location of Operating Plants, 1922 and 1923 (con.)

Provinces	Vinegar, Cide Sauces and Ro		Total Opera Plants	407	
	1922	1923	1922	1923	
CANADA	67	70	296	252	
P. E. Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta Br. Columbia	4 1 9 44 1 - 3 5	2 1 8 46 4	18 10 31 200 1	7 8 28 168 4 - 5 32	

#### PRINCIPAL STATISTICS.

A comparison of the principal statistics of the feur sections comprising the industry in the Dominion for the calendar years 1922 and 1923 is presented in Table 2. The only section showing an increase in value of production was that of Vinegar, cider, pickles, and Relishes, where the increase amounted to \$238,525, whilst the other three sections showed a total decrease in value of \$2,832,988.

Table 2. - Comparative Statistics, 1922 and 1923.

	Un	eit	1923	1922		Increase Decrease
Establishments	No		. 252	296	-	42
Capital invested	\$		23,106,580	24,077,358	-	970,778
Employees en salaries - Ma	ale No		499	532	-	33
F	omalo ! No	. !	145	146	-	1
	alaries   \$	-	974,584	1,005,886	-	31,302
Imployees on Wages - 1k	ilo No		1,876	1,954	-	78
	male No		1,799	1,372	-	73
We	igos   \$		2,286,395	2,417,014	-	130,619
Outside piece-workers - Ma	40		60	123	-	63
	omale No		316	602	-	286
An	at. paid \$		15,107	43,649	-	28,542
_	its No	1	938	888	1 /	50
	1	P.	11,726	12,347	-	621
Cost of fuel	1 8		330,044	467,029	-	136,985
discellanceus expenses	j		2,952,599	2,589,565		363,034
est of materials	S		12,018,704	13,512,518		1,493,814
ross value of products	8		20,901,322	- , , , , , , , , , , , , , , , , , , ,	9	,594,463
let value of products	1 8		8,852,618			1,100,649

# THE FRUIT AND VEGETABLE PACKING INDUSTRIES IN CANADA, 1923

#### SECTION I. - FRUIT AND VEGETABLE CANNING

The number of plants operating in the fruit and vegetable canning industry in 1923 was 103 or 14 less than in 1922. Seventy per cent of the number of active plants in 1923 were situated in the prevince of Ontario and they furnished seventy-one per cent of the total value of production.

#### PRODUCTION

The quantity and selling value at the factory of the various classes of products manufactured during the year are shown in Table 3.

Table 3. - Production Canned Fruits, Vegetables, etc. 1923.

Classos of Products	Unit of Measure	Quantity	Selling valuat factory
P		197314	3 77 300
Fruits, cannod:- Total value			1,714,190
Apples	cases	151,053	316,551
Apricots		7,703	31,331
Cherries	Н	41,116	202,285
Currants	197	447	3,368
Peaches	11	55,185	215,479
Pears	11	71,285	271,836
Plums	f H	35,063	97,904
Pinoapplos	17	13,566	90,199
Gooseberries	11	1,725	7,687
Blueberries	11	11,785	38,214
Raspberries	. 11	33,457	177,849
Strawberrios	11	37,190	205,592
Loganberries	tr tr	6,366	29,558
Rhubarb	61	10,373	23,237
		10,012	3,100
All other			
Fruits, preserved:- Total value		0 2/2 200	700,915
Jams	pounds	2,361,395	440,773
Jullios	11	46,375	6,992
Larmalades	ft ft	34,232	5,544
Proserved or crushed fruits	gallon (	32,754	169,036
Syrups		22,720	78,570
Vegetables, cannod:- Total value		2457640	6,562,825
Boans, green or wax	cases	2 67,855	222,973
Beans, baked	n	362,152	969,917
Beets	11	12,758	47,643
Corn	19 1	424,216	1,114,173
Carrots	н	835	3,308
Poas		534,024	1,522,653
Spinach	11	6,769	23,177
	11	44,238	107,205
Pumpkin		215,656	575,458
Squash	1 - 11		
Tomatoes	! "	604,258	1,923,056
Asparagus		4,879	37,817
All other	-	111111111111111111111111111111111111111	15,449
Miscollaneous Products:-Total value	-		535,788
Mincomeat	pound	11,770	1,648
Catsup and relishes	gallon	246,865	226,895
Tomato purce	case	4,999	13,690
Canned soups	fr	30,963 -	120,928
Canned chicken	11	1,139	16,138
Evaporated apples	ion	144 -	30,176
Sauerkraut	pound	260,438	13,687
Vinegar	gallon	70,000	14,000
Cider	11	116,500	17,475
All other			81,151
Grand total value of products			9,513,722

Cares 30,963 120,928 lbs 5223239 1,275,604

#### CAPITAL INVESTMENT

The amount of capital invested in the canning section of the industry is shown in table 4 under two heads: - fixed capital and working capital. Fixed capital includes the value of (a) land, buildings and fixtures and (b) machinery and tools and totalled \$8,155,303. Working capital is represented by (a) materials and supplies on hand, finished products on hand, fuel, etc. and (b) cash, trading and operating accounts and bills receivable which t talled \$3,101,607. Compared with 1922 fixed capital shows an increase in operating plants of \$2,336,602 whilst working capital, on the other hand, decreased by \$2,592,800 leaving a net decrease of \$256,198 in the total capital investment in 1923.

	Fixed	Capital	Working	Capital	
Provinces	Land, buildings & fixtures	Machinery & tools	hand, finished		Total Capital
CANADA	4,939,275	3,216,528	2,532,867	568,740	11,257,410
N. S. N. B. Quebec	56,500 0,280 165,425	39,559 4,841 92,982 2,783,451	25,578 10,741 238,390 1,969,131	54,633 268 37,776 342,273	176,270 24,130 534,573 9,397,278

133,750

289,027

1,125,159

Table 4. - Capital Invested by Provinces, 1923.

#### EMPLOYEES, SALARIES AND WACES

295,695

406,647

Br.Columbia

The number of persons employed in this section of the industry is shown by classes, sex and remuneration in table 5. Salaried employees numbered 195 males and 60 females with an aggregate salary payroll of \$339,495 which represented an average salary per employee of \$1,331. For those working on wages the males numbered 1,021 and the females 1,007 with a total wage payroll amounting to \$1,108,634 or an average per employee in this seasonal industry of \$546. More than seventy per cent of the total number employed in this industry and 75 per cent of the payments for salaries and wages are accredited to the province of Ontario.

British Columbia is next with about 17 per cent of the employees and 20 per cent of the payments for salaries and wages.

Table 5 Emp	lovees by	classes,	sox a	nd salary	and wage	payments,	1923.
-------------	-----------	----------	-------	-----------	----------	-----------	-------

Classes of employees.	Number of	of Employees Female	Total salaries and wages paid.
Salaried officers of corporations General superintendents, managers Technical experts, engineers, etc.	20	2	46,070
	112	1	189,993
	11	-	18,016
Clorks, stenographors, salesmen and other salaried employees Wage-earners, average yearly number Outside piece workers	52	57	85,416
	1,021	1,007	1,108,634
	30	84	9,014
Totals	1,246	1,151	1,457,143

#### EMPLOYMENT BY MONTHS

The seasonal nature of the industry becomes apparent by a study of the number of persons employed during each month of the year. Table 6 shows the average employment in the months, July to October inclusive of 1,879 males and 2,239 females whilst the average for the remaining 8 months was 582 males and 392 females, most of whom were engaged in the packing and shipping of the products of the industry. The average employment throughout the year was 1,021 males and 1,007 females and the months of maximum and minimum employment were respectively September and January.

Table 0.	Employment by mone		No.of	employees
75 17	No. of ompleye	nav-t-milmo	Mala	Female
Months	Malo Femal	The state of the s	7 044	7 964
January February	312 21	July August	1;549	1,971
March April	364 145	Soptomber	1,637	1;571
May June	631 198	No vember December	703	1,075
	. 00) 1 044	Total for the year	12,253	12,088
Average	employment through	nout your	1,021	1,00

#### OTHER LABOUR STATISTICS

The working time of plants further illustrates the seasonal nature of the industry as will be seen in table 7. Full time operations of plants totalled 10,713 days and part time operations 3,845 days, a total operating time of 14,561 days, or an average of 141 days per plant. On the other hand, plants were idle for 16,751 days, or an average of 163 days per plant. The heurs of labour performed by employees averaged 9.77 per day and 58.21 per week.

· Table 7. Working Time of Plants and Employees, 1923.

Number of Plants in Operation during year	1.0	03
- Y	Total days	Avorago per plant
Days in operation on full time " " part time Days idle Hours worked by employees per day or shift " " per week	10,713 3,848 16,751 1,006 5,996	104. 37. 163. 9.77 50,21

#### FUEL CONSUMPTION

The quantity and cost value at the factory of the fuel consumed in this industry during the calendar year 1923 is shown by classes in table 3. Coal and coke accounted for 95 per cent of the total cost of all fuel, of which the bitumineus class alone represented almost 90 per cent. Compared with the previous year fuel costs decreased by (67,423 owing to the reduced quantity used as well as to lower market prices.

Table 8. Fuel Used, 1923.

Classes of fuel used .	Unit of Measure	Quantity	Cost value at the factory
Bituminous coal Anthracite coal Lignite coal Coke Gasoline Oil (fuel) Wood Gas, artificial and natural Other fuel, not specified	ton " gal. " cord m.c.ft.	15,466 225 97 371 2,959 26,744 568 551	112,968 3,268 590 4,130 367 1,311 2,614 254 1,420
Total cost of fuel			127,422

#### POWER EMPLOYED

The kinds of power employed in the industry are shown in table 9 by (a) the number of units of each and (b) the hersepower according to manufacturers rating. The number of believes installed was 124 with a total believe herse power capacity of 10,216.

Table 9. - Power Employed, 1923

Classes of power	Number of Units	Horse-power according to lianufacturers' rating
Steam ongines and turbines Gas ongines Oil and gasoline ongines	112 9 22	4,448 518 103
Electric motors operated by power generated by the establishments Electric motors operated by rented	95	1,036
Totals	434	1,380

#### MISCELLANEOUS EXPENSES

The total cost of miscollaneous or everhead expenses incurred during the year 1923 amounted to 01,458,766. The items included under this head were rents, taxes, insurance, advertising and travelling expenses, telegraph, telephone, postal and express charges, office furniture and supplies, repairs to buildings and plant, depreciation and sundry other expenses.

### MATERIALS USED

The quantity and cost value delivered at the factory of all materials used during the year are shown in table 10. Compared with 1922 there was a considerable decrease in the quantity of each of the principal materials used and also a difference in cost value of \$1,487,790.

Table 10. Materials Used by quantity and value, 1923.

table 10. Mater	ials Used by	quantity a	nd value, 1923.	
Kind of Materia	ls	Unit of Moasure	Quantity	Cost value at factory
Fruits - Apples Peaches Pears Raspberries Strawberries All other fruits	Total	lb.	14,707,526 1,906,671 3,017,678 720,041 1,473,716	638,661 90,764 49,266 84,643 88,095 121,336 204,557
Vegotables - Beans, green or wax Beans, white Corn Pens	Total ,	1b.	1,397,847 3,3%0,013 29,660,139 12,201,275	1,199,650 44,365 105,005 170,123 257,244
Pumpkins Tomatoes All other vegetables Other Materials -	Total	11	3,672,070 72,100,654	12,702 468,274 61,857 3,405,657
Sugar Salt Glucose All othor Containers, labels, etc.		1b. "	5,103,670 529,425 130,290	484,949 7,234 6,549 235,367 2,751,558
Total cost of all mate	orials			5,323,968

#### IMPORTS AND EXPORTS, Calendar Year 1923.

The quantity and value of goods imported for consumption and of these, the produce of Canada, experted during the calendar year 1923 are shown in table 11.

Table 11. - Cannod Fruits and Vegetables Imported and Exported, 1923.

Articlos		I	IPORTS	EXPORTS	
		Quantity	Value	Quantity	Valuo
Fruits, canned - In cases or other air-					
tight packages, n.o.p. Peaches in cases or air-	lb.	4,987,332	555,703	-	690,697
tight packages	lb.	1,933,688	171,177	-	-
Wegotables, canned - Baked beans in cans, otc. Corn in cans, otc.	lb.	1,259,329	88,179 75,302	-	- 1
Tomatoes in cans, etc. Vogetables, n.o.p. in cans, etc	lh.	662,282 5,802,400	56,068 705,153	18,936,704	1,347,985
Totals		-	1,651,662	-	2,038,682

# THE FRUIT AND VEGETABLE PACKING INDUSTRUES IN CAMADA, 1923. Soction II. - FRUITS AND VEGETABLES, DRIED AND EVAPORATED.

This section of the industry shows that but 30 plants reported operations in 1923 as against 64 in 1922, and that 20 plants were located in Ontario and one each in the provinces of Neva Stotic and British Columbia.

#### PRODUCTION

The statistics of production show a large decrease when compared with 1922 amounting to \$369,126. Table 1 gives the quantities and values of the principal products for the Dominion.

Table 1. Production 1923.

Products	Unit of Massure	Quantity	Solling Value at Factory
Apples, evaporated Apple chop and waste Other products	pounds	1,602,000	3 166,209 19,791 500
Total value of products		graduation trademate against the second	186,500

#### CAPITAL INVESTED

The amount of capital invested in this section of the industry is shown by items under two principal heads: fixed capital and working capital.

Table 2 .- Capital Invested by provinces, 1923.

day of the same of	Fix	The second secon	Working Ca	The state of the s	
Provinces	Land, buildings & fintures	Hachinory & tools		Cash, trading and operating accounts, etc.	Total Capital
CANADA	140,056	30,733	22,270	3,720	204,779
Ontario Othor prov.	136,056 4,000	36,733 2,000	10,270 4,000	2,920 860 —	193,979

#### EMPLOYEES, SALARIES AND WAGES

The number of persons employed is shown by classes, sex and remuneration in table 3.

Table 3.- Employees, Salaries and Wages, 1923.

Classes of employment		Imployoes Fermio	Total salaries & wages
General superintendents, managers, etc. Clerks, stonographors, salesmon and	6	-	3,020
other salaried employees Employees on wages (average for year)	1 42	60	1,062 47,793
Totals	49	62	51,875

The seasonal nature of the industry is shown in the statistics of employment by months in Table 4.

Table ... Employment by Months, 1923.

Months of Employment	No. of	No. of Employees		
	Halo	Fomale		
August	6	-		
Septomber	55	79		
October	164	262		
Novombor	197	295		
December	78	88		
Total five months	500	724		
Average yearly employment	42	1 60		

#### OTHER LABOUR STATISTICS

The operating time of plants affords a further illustration of the seasonal nature of the industry as will be observed in table 5.

Table 5 .- Working time of Plants and Employees, 1923.

No. of plants operating during the year	30		
	Total days	Average per plant	
Days in operation on full time " " " part time " idle	1,319 79 7,722	43.97 2.63 257.40	
lours worked by employees per day or shift per week	285 1,708	9.50 56.93	

#### FUEL CONSUMPTION

The consumption of fuel by classes, quantity and value is shown in table 6. Coal and coke formed 86 per cent of the total value of fuel used.

Table 6 Fuel Consumpt:	ion by classes,	1923.	
The second secon	Unit of	Quantity	Cost value at
Classes of fuel	Measure		factory
Bituminous coal	ton	230	2,512
Anthracite coal	88	642	10,303
Coko	11	633	8,046
Gasoline	gal.	1,5.5	410
Oil (fuol)	11	447	110
Wood	cords	639	2,913
Other fuel, not specified	-		5
Total cost of fuel used			24,307

### POWER EMPLOYED

Power installation in the industry is shown in table 7 by (a) the number of units in each class and (b) the horsepower according to manufacturers' rating.

Table 7. Power Employed, 192	3.	
	Number of	Horsepower according to
Classes of power	Units	manufacturers' rating
Steam engines and turbines	2	166
oil and gas line ongines	13	23
Hydraulic turbines	. 1	15
Electric motors operated by owned power	1	1
" " rented power	10	51
Totals	27	316

The cost of miscellaneous or overhead expenses connected with this section of the industry amounted in 1723 to 012,954. The items included under this heading are rents, taxes, insurance, advertising and travelling expenses, office supplies and stationery, postal, telegraph, telephone and express charges, repairs to buildings and plant and depreciation.

The quantity and value at the factory of the principal materials used are shown in table 3.

Table C Materials	Used, 1923.		
Kinds of materials	Unit of moasure	Quantity	Cost value
Apples Sulphur Dexes and other containers Labels, etc. All other materials Total cost of materials	lb.	14,572,330 21,845	54,029 049 12,343 240 611 60,072

EMPORTS AND EXPORTS

The quantity and value of the imports and experts of dried and evaporated fruits and vegetables are presented in table 9 for the calendar year 1923.

Table 9Imports and	Exports, Calc	endar yoar 1	123.	
Articles	Imports Exports.		orts.	
VII. [10162	Quantity	Value	Quantity	Valuo
Fruits, dried or evaperated - ipples lb. ippricets Peaches " interval the control of the control	1,391,193 1,544,394 1,733,372 720,552	47,260 140,371 153,569 123,233	9,074	155,854 1,050 268
Total value impts. & expts.		474.520		157,212

## Section III. FULLS, PROGRATED

In Section III the preserving of Scuits is especially dealt with. Comprehensive statistics of the values of products will be found in the summary table on page 1 of this report. The number of plants reporting in 1923 was 49, an increase of one additional plant over 1922. Of this total 22 were located in Ontario, 15 in British Columbia, 9 in Queboc, 2 in Alberta and 1 in Nova Scotia.

#### PRODUCERON

The quantity and solling value of the products of this industry are found in table 1. Onterio's production totalled \$2,579,369 or 48.7 per cent, Quebec's \$1,484,390 or 27.0 per cent and British Columbia's \$1,315,754 or 23.9 per cent.

Wable 1 - Production of Prosurred Strite 1927

Kinds of Froducts	Unit of :	Quantity	Selling Value
			\$
reserved fruits -			
Jams	pounds	22,718,311	3,309,690
Jellies	1 17 ;	1,447,180	192,307
Marmalados	i n	4,790,910	530,150
Proserved fruits	gallons!	100,545	270,300
Symba	n ,	543,470	391,891
All other (value only)		2.01.10	26,520
anned fruits	cases	5,180	17,928
annod vegetables	п	6,191	15.539
ickles	gallons	60,485	72,029
aucus and relishes	11 1	156,417	130,771
ince meat	pounds	958,830	120,247
ll other miscellaneous products (value only)		1,0,0,0	374,537
Total value of products		21	5,503,209

### CAPTURE INVESTIGIE

The amount of capital invested in the preserving section is shown in table 2 under two heads - fixed capital and working encital - which terms have been described in section I. Fixed capital totalled \$2,563.478 or 44.8 per cent of the entire investment and working capital \$3,163,57 or 55,2 per cent.

	Table 2	Capital Lava	sted by Previnces	, 1923.	
			Trade Sage O		
Provinces	Land, build- ings, etc.	Machinery and tools	stocks on hand	One'n. trading und operating' accounts	Total
CANADA	1,882,350	681,128	1,872,247	1,291,250	5,726,975
Ontario Quebec Br.Columbia Other Prov.	1,294,343 391,308 196,699	432,569 135,737 104,000 2,022	975,331 448,047 443,975 4,894	943,666 175,364 169,656 2,564	3,651,909 1,150,456 915,130 9,480

#### ENTLOYEES, SALARIES AND WAGES

The number of persons at employment in this section is shown according to classes, sex and remuneration in table 3. The seasonal nature of the industry does not apply in this section to the same extent as in the canning and evaporating section as will be noted in the statistics of employment by months (table 4).

Table 3.~ Employees, Salaries e	16,01	Intryees Lamele	Salaries & wages paid
Salaried Officers of corporations General superintendents, managers, etc.	26 32	2	68,213
Technical emperts, eggineers, chemists, accountants, etc.  Clerks, stenographers and other salaried	11	3	16,145
omployees	73 299	40	138,917 459,384
Dutside piece workers	30	232	6,093
Totals	471 :	724	767,785

# THE FRUIT AND VEGETABLE PACKING INDUSTRY IN CANADA, 1923.

#### EMPLOYING STATISTICS (continued)

Employment of wage earners by months is shown by number and sex in table 4. The maximum number employed was in the month of July when there were entered on the payroll 1,449 persons and the minimum in January when the number totalled 413.

Table 4. - Imployment by Months, 1923.

· No.of Enployees:				
		Months	l'ale	Female
265	208	July	475	974
218	226 1	August	362	509
221	258	September	355	576
1 213	284	October	396	563
239	311	November	303	416
351	684	December	247	357
on armlawed th	-		3,535	5,366
	205 216 221 221 213 239 351	Male Fenale  205 208 218 226 221 258 213 284 239 311 351 684 Total emp	Male         Ferale         Months           205         205         July           218         226         August           221         258         September           213         284         October           239         311         November	Male         Fenale         Months         Male           205         208         July         475           218         226         August         362           221         258         September         355           213         284         October         396           239         311         November         303           351         684         December         247           Total employment         3,535

#### OTHER LABOUR STATISTICS

The time during which the plants were in operation during the year and the hours of labour of employees are shown in table 5. Full time operation of plants totalled 10,553 days and part time 1,454 days or a total operating time of 12,007 days, an average per plant of 245 days. The time during which plants were idle totalled 2,889 days or an average per plant of 59 days.

Table 5 .- Working time of plants and employees, 1923.

Number of plants in operation during year		49
	Total Days	Average per plant
Days in operation on full time	10,553	215.37 29.67
Days idle Hours of labour of employees per day or shift " " " week	2,889 428 2,420	55,96 5.73 49.40

# FURL CONSUMPTION

The quantity and the cost value delivered at the factory of the different classes of fuel used in the industry in 1923 are shown in table 6. The total cost shows a decrease of \$14,655 as compared with 1922 ewing principally to lower market prices.

Table 6 .- Fuel Consumption, 1923.

Classes of fuel	Unit of Measure	Quantity	Cost value at factory
Situminous coal Anthracite coal	ton	7.339 19	51,729 308 224
esoline il (fuel)	gal.	2,899	839 1,420
ood as, artificial or natural	m.c.ft.	1,331 2,896	6,935 3,215
Total cost of fuel used		-	74,670

#### POWER EMPLOYED

The kinds of power installed in this section of the industry are shown in table 7 according to (a) the number of units of each class and (b) the horsepower according to manufacturers' rating.

Table 7 .- Power Installation, 1923.

Kinds of power	Number of units	Total horsepower according to manu-facturers rating		
Steem engines and turbines Oil and gasoline engines Electric motors operated by owned power  " rented "	17 2 2 120	668 24 50 661		
Total power installation	141	1,403		
Boilers installed	14	846		

#### MISCELLANEOUS EXFENSES.

The total cost of miscellaneous expenses or "overhead" amounted to \$531,792 in 1923 a decrease of \$37,488 as compared with the outley in 1922. Included under this head were the following items:- rents, taxes, insurance, advertising. and travelling expenses, office furniture and supplies, telegraph, telephone, postal and express charges, repairs to buildings and plant, depreciation and sundry expenses.

#### MATERIALS USDD

The quantity and cost value of the principal materials used in this section are presented in table 8.

Table 8 .- Materials Used by Quantity and Value, 1923.

Table 8 Materials Used C	y quantity	and value, 192	.).
Kinds of materials	Unit of Measure	Quantity	Cost value at factory
Fruits - Total value	-		876,698
Apples	nounds	4,209,401	33,603
Cherries	at a	827,319	88,356
Currents	II II	299,458	29,851
Pineapples	41	330,048	38,807
Loganberries	11	167,641	7,801
Peaches	lt.	202,963	9,556
Plums	91	622,102	14,039
Gooseberries	- 11	. 119.864	6,250
Respherries	88	1,510,861	184,850
Strawberries		4,118,016	378,189
Oranges	u	655,777	41,359
All other (value only)		_	44,037
Vegetables - Total value	-	āno.	46,348
Beets	11	23,708	751
Cauliflowers	13	130,500	5,110
Tomatoes	- 13	. 3,198,662	28,809
Oucumbers	H H	313,565	7,005
Onions	rt	. 211,500	4,388
All other (value only)		-	285
Other materials - Total value	_	-	2,799,150
Salt	11	267,414	3,149
Sugar	- 11	16,932,979	1,561,732
Glucose	- 11	5,103,335	218,381
Pectin	п	532,699	82,758
All other (value only)		***	221,661
Containers, caps, labels, etc. (value onl	y)	-	711,469
Grand total cost of materials used			3,722,196

#### IMPORTS AND EXPORTS

The quantity and value of imports for consumption in Canada included in this section are shown in table 9 for the calendar year 1923. There were no exports in this section.

Country	Jams, jellies	and preserves	Fruits preserved in brandy etc.		
	Quantity Lbs.	Value \$	Quantity gal.	Valuo \$	
United Kingdom United States	1,288,883	194,740	<u> </u>	- 63	
Australia France Other countries	4,945 183,488 6,622	980 44,328 1,446	-	-	
Total imports	1,556,689	262,116	14	63	

# (12). THE FRUIT AND VEGETABLE PACKING INDUSTRIES IN CANADA, 1923.

# SECTION IV .- Vinegar, Cider, Pickles, Sauces, etc.

The manufacture of vinegar, cider, pickles, sauces and relishes is presented in this section and covered reports from 70 individual concerns, 46 of which were located in the province of Ontario, 8 in Quebec, 13 in the Western Provinces and 3 in the Maritime Provinces. This was an increase over 1922 of three in the number of concerns reporting and of \$514,239 in the total value of production.

# FRINCIPAL STATISTICS.

The principal statistics of this industry in 1923 are presented in the following summary table by provinces. Increases over 1922 appear in nearly every one of the statistical items of the table for the Dominion. Capital increased by \$473,697, salaries by \$30,415, wage earners by 152 in number and \$125,781 in the amount peid them, miscellaneous expenses by \$110,081 and cost of materials by \$224,705. There were decreases of one in the number of salaried employees, of 550 in horsepower capacity, and of \$7,313 in the cost of fuel.

#### PRIMCIPAL STATISTICS BY PROVINCES, 1923.

Principal Statistics	Unit		MARITINE PROVINCE		O ONTARIO	WESTERN PROV- INCES
Establishments reporting Capital invested Employees on salaries -	No.	70 5,917,416	189,763	242,315	146 5,073,977	13 411,361
lale Fenale Salaries	No.	33		. 2	111 29 224,107	4
Employees on Wages - Male Female Wages	No.	285	11	26 10 30,757	424 230 565,104	34 34 51,081
Power Installation - Units Capacity Cost of fuel Miscellaneous expenses	No E.P.	285	7 80 4,630	5,404		3,455
Cost of materials Value of products Value added by namufacture	9999	2,904,468 5,697,891 2,793,423	69,599		2,394,653	315,763 550,816

# THE FRUIT AND VECTTABLE PACKING INDUSTRIES, IN CAMADA, 1923. PRODUCTION STATISTICS

The quantity and selling value at the factory of the principal products of this section are shown in table 1 by provinces. Over eighty por cont of the entire production is credited to the province of Ontario. Vinegar stands in first place in value of production followed in order by sauces, catsup and relishes, pickles and baked beans, the four together representing approximately 75 per cont of the total value.

Table 1.- Production by Provinces, 1923.

Preducts	CANADA		NADA	HARITIME PROVINCES		QUEBEC		ONTARIO		WESTERN PROVINCES		
	Unit	Quantity	Solling Value	Property and the artists of the second of the	Solling	Quant.	Solling	Quant.	Solling Value	Quant	Solling Value	
Pickles, all kinds Vinegar Sider Sauses and relishes Clives, bottled Salad dressing Minecment Samerkraut Herse radish Mustard, prepared Preserved fruits Beans, baked Fruits, dried All other products	Gol	4,273,753 572,246	1,162,941 146,792 60,555 102,019 65,125 13,056 97,943 116,270 596,951	200,300	60,450	35,500 600,401 1,000	47,381 172,190 600 - 4,225	508,430 2,352,470 306.196 034,605 41,223 16,150 777,353 1,667,108 43,600 500,122 274,451	69,327 1,137,907 146,792 59,955 100,369	34,500 2,417 11,000 156,000 4,700 400	291,327	
Total value			5,697,391		160,637		229,596	-	4,756,842	-	550,316	

x Includes: - apple butter, poznut butter, canned scups, macaroni and fruit pectin.

#### CAPITAL INVESTMENT

The amount of capital invested in this section of the industry is shown by provinces under two heads, viz., fixed capital and working capital in table 2. The total capital was about evenly divided according to this classification but when compared by provinces it will be seen that nearly 85 per cent of the entire investment is credited to the province of Ontario.

Table 2 .- Capital Invested by Provinces, 1923.

	CANADA	MARITIME PROVINCE		ONTARIO	WESTERN PROVINCES
Fixed capital, total  Land, buildings, etc.  Machinery and tools	2,964,374 1,777,123 1,187,251	122,267 46,214 76,053	77.492	2,517,062 1,577,596 939,466	75,821
Working capital, total - Materials and supplies on	2,953,042	67,496	95.327	2,556,915	233,314
hand, fuel, etc.	2,524,084	54,021	63,766	2,231,660	174,637
ing accounts, etc.	428,958	13,475	31,551	325,255	58,677
Grand Total Copital	5,917,416	189,763	1242,315	5,073,977	411,361

#### EMPLOYERS, SALARIES AND WAGES

The number of persons at employment in this section of the industry is shown by classes and sex in table 3(a) and by provinces in 3(b). Compared with 1922 there was an increase of 152 in the number employed on wages and of \$125,731 in the wages paid. Salaried officers on the other hand show a decrease of one in number but an increase in salary payment amounting to \$30,415, the net increase in employment over 1922 being 151 and in the amount paid for salaries and wages of \$155,136.

Table 3(a) .- Employees by Classes, sex and Remuneration, 1923.

	No.0	Total salary	
Classes of employment	Male	Female	and wage
Salaried officers of corporations	26	2	30,473
General superintendents, managers, etc. Technical experts (engineers, chemists,	39	-	35,506
accountents, etc.) Clerks, stenographers, salesmen and other	17	2	29,066
salaried employees	1 73	74	133.554 670.584
Mage earners, average mumber	514	285	670,584
Total employees	569	323	999,283

Table 3(b) .- Employees by provinces, sex and remmeration, 1923.

	Mo. C	Total salary	
Provinces	Male	Female	and wage payments \$
Maritime Provinces	39	14	47,026
Quebec	40	13	59,107
Ontario	535	259	789,211
Western Provinces	155	37	103,939
Canada, totals	669	323	999,283

### EMPLOYERS BY MONTES

The number of persons employed by months and the average employment for the year are shown in table 4. The maximum of employment was reached in September with a total of 1,267 persons, the minimum in Jenuary when it fell to 571.

	Ho.of B	mloyees		Mo, of	Employees
Months	Male	Female	Months	Male	Female
lanuary Pebruary Jarch Ipril Jay Tune	39.5 39.5 39.5 39.5 14.6 14.6 14.6 14.6 14.6 14.6 14.6 14.6	176 188 240 250 275 314	July August September October November December	519 5972 7177 513	305 321 305 307 307
	Total en	mployment b	y months	6,173	13,42.9
Average	yearly employs			514	285

#### OTHER LABOUR STATISTICS.

Statistics of operating time in plants and of their employees are shown in table 5 for the calendar year 1923. The seasonal nature of the industry is indicated by the time that plants were idle during the year, being more than one-third of the total working time. The average of days in operation, whether on full or part time, was 200.37 and the days idle numbered 103.13. Working time per employee averaged 9 hours per day and 51.66 hours per week.

Table 5 .- Working time of Plants and Employees, 1923.

Itans	Totals Av	erage per plant		
Mumber of Operating plants	70			
Days in operation on full time  " part time Days plant were idle	13,233 628 7,219	189,04 11.63 103.13		
Hours worked by employees - Per day or shift Per week	630 3,616	9.00 51.65		

#### FUEL CONSUMPTION

The quantity and cost value delivered at the factory of the various kinds of fuel used are shown in table 6 for the calendar year 1923. The total cost of all fuel aggregated \$113,645 of which coal of all kinds accounted for \$105,241 or 92.6 per cent.

Table 6 .- Fuel Used, 1923.

Kinds of fuel	Unit of Measure	Quantity	Cost value at factory \$
Coal, bituminous  anthracite  lignite  Coke	ton	13,598 323 50 25	100,270 4,352 609 242
Hasoline Oil (fuel)	gallon	7,294	2,348
Mood Hes, artificial and natural Il other, value only	cord m.c.ft.	821 1,390	4,581 804 409
Total fuel cost		_	113,645

#### POWER EMPLOYED

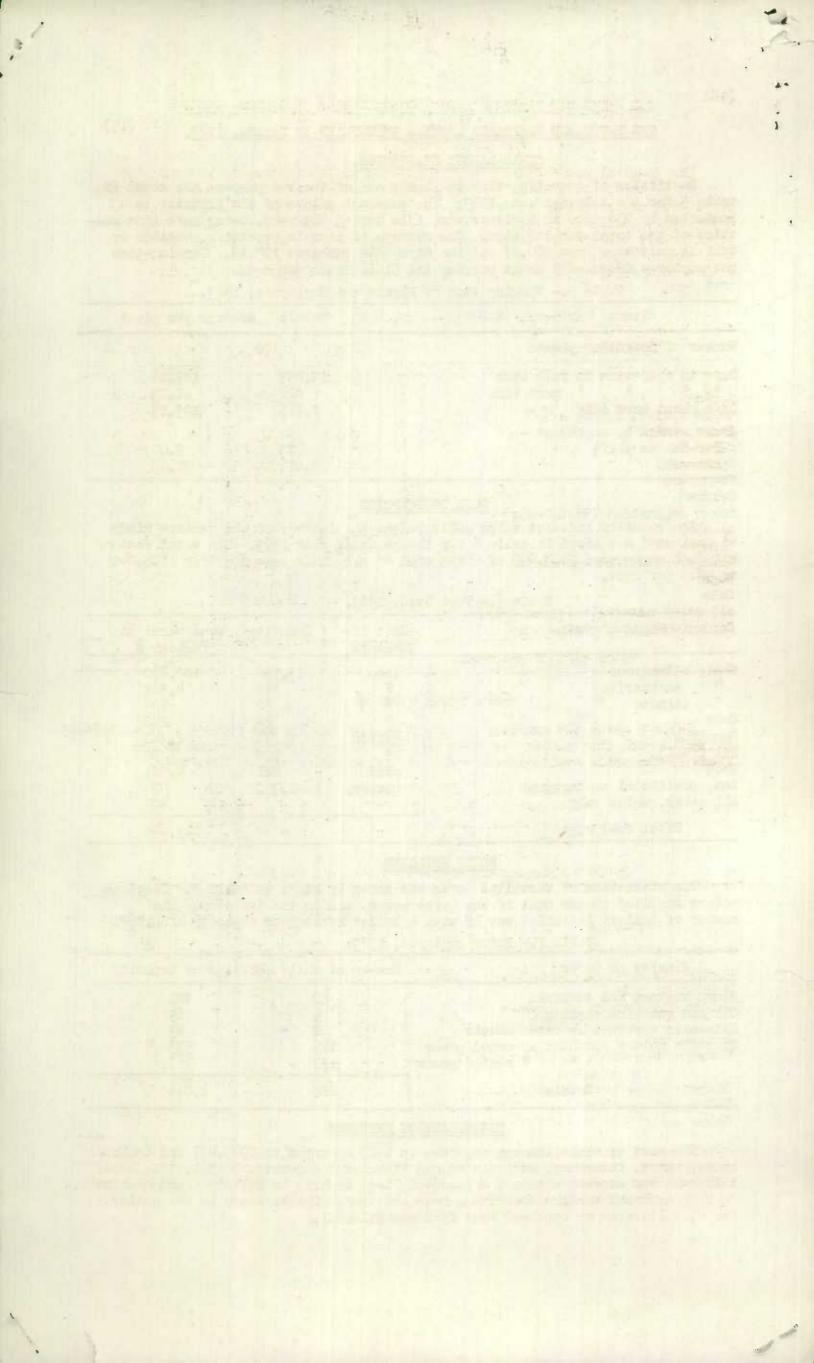
The statistics of installed power are shown by kinds in table 7. Electric motors supplied 60 per cent of the horse power used in the industry. The number of boilers installed was 18 with a boiler horsepower capacity of 2,462.

Table 7 .- Power employed, 1923.

Classes of power	Number of units	Horsepower capacity
Steam engines and turbines	22	701
Dil and gasoline engines	1 9	69
Hydraulic turbines or water wheels	2	43
Electric motors operated by owned power	126	533
" rented power	127	658
Totals	286	2,014

#### HISCELLANDOUS EXPENSES

The cost of miscellaneous expenses in 1923 amounted to \$949,027 and included rents, taxes, insurance, advertising and travelling expenses, postal, telephone, telegraph and express charges, office supplies, repairs to buildings and machinery, depreciation and sundry other items not mentioned. The increase in the outlay for miscellaneous or overhead over 1922 was \$110,081.



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# THE FRUIT AND VEGETABLE PACKING INDUSTRIES IN CANADA, 1923.

# MATERILLULE GOED

The quantity and the cost value delivered at the factory of the various classes of materials used in the industry during 1923 are shown in table 8. The total cost of materials increased over the previous year by \$224,073 or nearly 8 per cent. Aside from the cost of containers the next largest individual item of materials was alcohol, used largely in the manufacture of vinegar which amounted to 453,830 proof gallons of the value of \$329,364. Sugar comes next with a cost value of \$236,379. Vegetables aggregated \$357,701 and fruits \$151,799.

Table 8. Materials Used, 1923.

Waterials used	Unit	Quantity	Cost value at
Apples Other fruits, (value only) Beans, white Cabbages Tomatoes Cucumbers Onions Other vegetables (value only) Alcohol Vinegar Vinegar stock and materials Sugar	lb.  lh.  " " Pr.gal.  gal.  " lh.	17,459,611 1,789,979 1,764,761 20,374,752 3,298,153 829,538 453,830 368,348 209,136 2,897,370	75.178 76,621 89,860 6,786 136,856 74,777 21,361 29,061 329,354 134,321 86,942 236,379
Salt All other materials (value only) Containers, etc. (value only)		1,562,556	10,608 312,001 1,284,353
Total cost of materials			2,904,468

#### IMPORTS AND EXPORTS

Table 9 gives the quantity and value of the imports and exports of the articles connected with this section of the industry. The quantity and value of the items in the table available for consumption in Canada was as follows:

Pickles	826, 527	gallons	worth	\$1,220,904
Vineger	4,447,600	Ħ	11	1,365,363
Sauces, etc.	1,545,290	11	22	1,502,882
Choer	611.4.9	12	22	130.196

Table 9. Imports and Exports, Calendar year 1923.

		Imports for Consumption		Exports of Canadian Produce	
Articles	Unit	Quan.	Value \$	Quan.	Value \$
Pickles in bottles, jars, etc.	gal.	. 76,630	132,666	-	-
Pickles in bulk	11	10.837	8,170	1 -	-
Sauces and catsups in bottles	ď	185,104	331,473	g=10	-
W W in bulk	98	23,090	15,625	-	
Sauces, soy	ti i	96,712	55.177	-	-
Vinegar, any strength not exceeding proof Vinegar above strength of proof Vider not elevitive as referred	ng n	138.942 12,494 700	60,612)	47,499	
Dider, not clarified or refined Dider, clarified or reflued	11	711	162) 615)	78,678	
Potal values imports and emports			600,778	1	33,785

<sup>1</sup> Note: Consumption is rechosed by adding together the manufactured product and the imports and deducting therefrom the exports.