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REPORT  
on the  
BISCUIT & CONFECTIONERY INDUSTRY  
in  
CANADA  
1924

♦ ♦ ♦

Published by Authority of the Hon. J. A. Robb, M. P.,  
Acting Minister of Trade and Commerce.

♦ ♦ ♦

OTTAWA

1926

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THE DEPARTMENT OF  
STATISTICS  
GOVERNMENT OF INDIA

BUREAU OF STATISTICS  
NEW DELHI

NOTE.- The statistics published in the present statement include only the statistics of such manufacturing establishments as make Biscuits and confectionery as their principal product. The statistics relating to specific products are therefore not to be regarded as comprehensive, as products like Biscuits and confectionery are also found as secondary products of the following industries:-

1. Bread and other bakery products
2. Cocoa and chocolate
3. Coffee and spices
4. Medicinal and pharmaceutical preparations

## 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.

THE BISCUIT AND CONFECTIONERY INDUSTRY IN CANADA, 1924.

Ottawa, March, 1926.— A report on the Biscuit and Confectionery Industry in Canada is herewith presented for the calendar year 1924. The number of individual plants reported to the Bureau in 1924 totalled 321 being a decrease of 40 from the preceding year. The decrease in the number of operating plants was due to (a) the exclusion of 21 candy kitchens whose value of products was so small as to render them not worthy of consideration, (b) the transfer of 6 plants to the dairy industry and (c) the retirement from business of 40 firms or individuals, making a total of 67. On the other hand 27 new firms reported for the first time, leaving a net decrease of 40 as previously stated.

The distribution of plants by provinces for each of the years 1923 and 1924 was as follows:

Provinces	1923	1924
Prince Edward Island	3	3
Nova Scotia	12	11
New Brunswick	11	12
Quebec	45	42
Ontario	190	171
Manitoba	21	20
Saskatchewan	10	7
Alberta	18	15
British Columbia	51	40
Totals, Canada	361	321

Of the total factories reporting in 1924, the number making biscuits only was 17, biscuits and confectionery 24 and confectionery only 280. Statistics of the chewing gum industry are included in the confectionery section of this report.

COMPARATIVE STATISTICS

The principal statistics of the industry are compared by provinces in Table 1 for the calendar years 1923 and 1924. Increases appear in capital invested amounting to \$1,730,000 or 4.7 per cent and in the payments for salaries and wages of \$1,001,540 or 9 per cent. Decreases are shown in the number of persons employed of 838 or 6.6 per cent, in the cost of materials of \$576,252 or 2.4 per cent and in the value of products of \$3,270,546 or 6.9 per cent.

Table 1.— Principal Statistics compared by provinces 1923 and 1924.

	Estab- lish- ments	Capital employed	Empley- ees	Salaries and wages	Cost of Materials	Value of Products
	No.	\$	No.	\$	\$	\$
1924						
Canada	321	38,557,117	11,886	12,126,701	23,383,625	45,123,629
P.E. Island	3	13,600	5	4,238	20,855	28,193
Nova Scotia	11	1,935,245	1,116	752,452	1,694,418	3,159,883
New Brunswick	12	2,043,149	668	536,919	1,403,368	2,562,383
Quebec	42	8,102,957	2,809	1,898,399	5,350,876	9,657,295
Ontario	171	23,059,279	6,194	7,839,133	12,556,004	24,785,238
Manitoba	20	1,171,859	476	468,774	1,009,099	2,125,035
Saskatchewan	7	78,638	21	18,393	24,010	56,893
Alberta	15	636,678	176	183,192	466,708	1,022,891
British Columbia	40	1,515,712	421	425,201	858,287	1,725,818
1923						
Canada	361	36,827,117	12,724	11,125,161	23,959,877	48,394,175
P.E. Island	3	29,695	6	5,040	14,559	27,093
Nova Scotia	12	1,861,241	1,029	700,427	1,352,826	3,148,763
New Brunswick	11	2,019,197	687	543,957	1,574,380	2,709,186
Quebec	45	7,521,468	3,107	2,245,306	6,017,381	10,938,763
Ontario	190	22,217,908	6,684	6,382,357	12,230,163	25,274,737
Manitoba	21	1,144,493	517	547,976	1,290,349	2,292,994
Saskatchewan	10	67,769	23	21,249	41,062	75,724
Alberta	18	666,661	195	206,745	458,885	1,001,276
British Columbia	51	1,298,685	476	472,104	980,272	1,925,634



THE BISCUIT AND CONFECTIONERY INDUSTRY IN CANADA, 1924

PRINCIPAL STATISTICS

Table 2 presents the principal statistics of the industry in the Dominion for the calendar years 1923 and 1924. A column showing the increase or decrease of each particular item by amount and approximate percentages is added to complete the table.

Table 2.- Principal Statistics Compared 1923-1924.

Principal Statistics		1923	1924	Increase or Decrease (-)	
				Amount	Per cent
Establishments reporting	No.	361	321	- 40	- 11.06
Capital investment	\$	36,827,117	38,557,117	+ 1,730,000	+ 4.70
Employees on salaries -					
Male	No.	1,592	1,356	- 236	- 14.82
Female	No.	496	496	-	-
Total salaries	\$	3,742,906	3,286,807	- 456,099	- 12.19
Employees on wages -					
Male	No.	4,658	4,355	- 303	- 6.50
Female	No.	5,978	5,679	- 299	- 5.00
Total wages	\$	7,382,255	8,239,894	+ 1,457,639	+ 19.74
Cost of fuel	\$	688,774	599,053	- 89,721	- 13.03
Power employed -					
Units	No.	1,533	1,720	+ 187	+ 12.20
Capacity	H.P.	18,915	17,754	- 1,161	- 6.14
Cost of materials	\$	23,959,877	23,383,625	- 576,252	- 2.40
Gross value of products	\$	48,394,175	45,123,629	- 3,270,546	- 6.76
Net value of products	\$	24,434,298	21,740,004	- 2,694,294	- 11.02

PRODUCTION STATISTICS 1924

The statistics of production in the biscuit and confectionery industry for the calendar year 1924 are presented by principal items in table 3 for the Dominion and for each province separately. The quantity of biscuits manufactured fell from 76,256 tons in 1923 to 36,215 tons in 1924 whilst the value also fell from \$13,559,129 in 1923 to \$13,216,605 in 1924. The total production of confectionery fell from 94,046,383 pounds worth \$26,365,044 in 1923 to 91,182,874 pounds worth \$24,771,237 in 1924 and the average price per pound from 28.03 cents to 27.16 cents. In the production of ice cream, owing to the transfer from the biscuits and confectionery industry to the dairy industry of 6 plants, the quantity fell from 2,760,736 gallons worth \$3,640,476 in 1923 to 1,902,243 gallons worth \$2,662,095 in 1924 whilst the average price fell from 31.39 per gallon in 1923 to \$1.35 per gallon in 1924.

A summary table showing the per capita production of biscuits, confectionery and ice cream from all sources of production except that made in private homes, hotels, restaurants and boarding houses where it is made for own consumption, is presented below for the calendar year 1922, 1923 and 1924.

Per Capita production of biscuits, confectionery and ice cream for the calendar years 1922, 1923 and 1924.

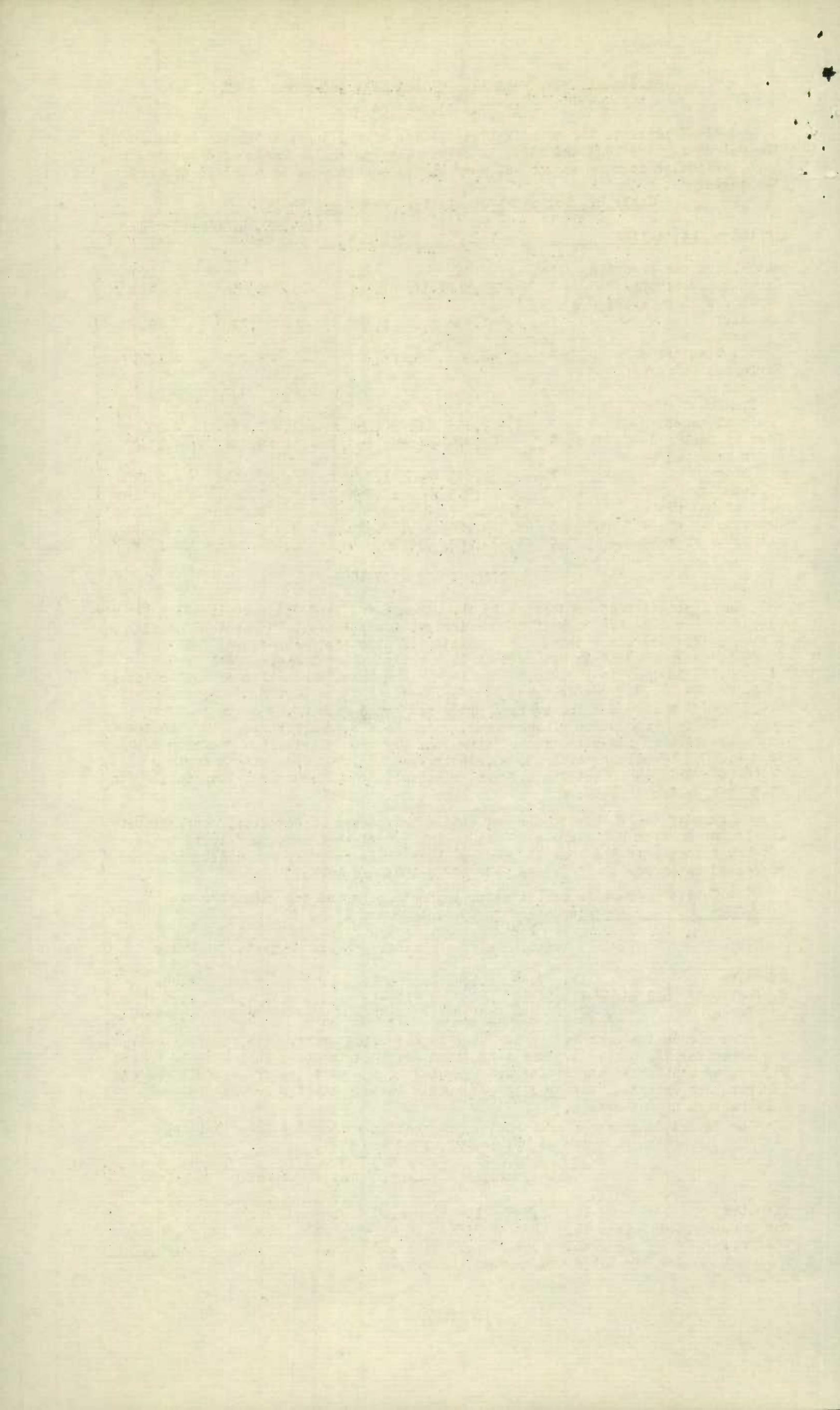
		1922		1923		1924	
		Quant.	Value \$	Quant.	Value \$	Quant.	Value \$
Biscuits	lb.	7.34	1.41	8.01	1.50	7.82	1.45
Confectionery, all kinds	lb.	11.17	2.76	10.41	2.92	10.57	2.85
Ice Cream	gal.	.54	.75	.62	.82	.59	.80

The per capita consumption by quantity and value of biscuits, confectionery and ice cream for the calendar years 1922, 1923 and 1924 is shown in the table below. Figures of available consumption are computed by the addition of manufactured and imports less exports. How closely production and consumption are keeping pace will be seen by comparison.

Per Capita Consumption of Biscuits, Confectionery and Ice Cream for the calendar years 1922, 1923 and 1924.

		1922		1923		1924	
		Quant.	Value \$	Quant.	Value \$	Quant.	Value \$
Biscuits	lb.	7.39	1.42	8.09	1.51	8.02	1.46
Confectionery, all kinds	lb.	11.17	2.78	10.41	2.92	10.50	2.88
Ice Cream	gal.	.54	.75	.62	.82	.59	.80

1 Export figures are not shown by quantities.



THE BISCUIT AND CONFECTIONERY INDUSTRY IN CANADA 1924

PRODUCTION STATISTICS (contd)

Table 3.- Production by items for Canada and Provinces, 1924.

Item	Canada		P. E. Island		Nova Scotia		New Brunswick		Quebec	
	Quantity	Selling Value	Quantity	Selling Value	Quantity	Selling Value	Quantity	Selling Value	Quantity	Selling Value
Bread	5,297,283	324,286	-	-	4,762,738	288,618	-	-	216,000	10,616
Buns	-	83,601	-	-	-	1,837	-	-	-	1,000
Pies, cakes, etc.	-	425,099	-	-	-	146,780	-	15,000	-	24,352
Puddings	-	35,160	-	-	-	1,302	-	-	-	360
Biscuits, plain and fancy	36,215	13,216,605	-	-	887	292,196	1,788	687,913	11,628	3,316,854
Chocolate confectionery	52,350,216	15,977,345	-	-	4,564,598	1,748,789	5,814,896	1,363,836	11,259,627	3,801,434
Sugar confectionery	38,832,658	8,793,892	18,237	3,894	1,701,254	440,418	2,168,970	419,254	11,090,656	2,226,518
Cocoa	38,553	17,243	-	-	-	-	-	-	38,553	17,243
Ice Cream	1,902,243	2,662,095	16,933	23,899	123,069	209,471	9,046	15,366	8,251	17,774
Popcorn	-	288,875	-	-	-	-	-	-	-	154,347
All other products	-	3,299,428	-	400	-	30,472	-	61,014	-	86,797
<b>Total Value</b>	-	<b>45,123,629</b>	-	<b>28,193</b>	-	<b>3,159,883</b>	-	<b>2,562,383</b>	-	<b>9,657,295</b>

Items of Production	Ontario		Manitoba		Saskatchewan		Alberta		Br. Columbia	
	Quantity	Selling Value	Quantity	Selling Value	Quantity	Selling Value	Quantity	Selling Value	Quantity	Selling Value
Bread	99,245	6,364	112,500	10,000	65,000	5,300	-	-	41,800	3,388
Buns	-	34,734	-	42,800	-	1,400	-	-	-	1,830
Pies, cakes, etc.	-	204,817	-	22,150	-	12,000	-	-	-	-
Puddings	-	12,998	-	6,200	-	150	-	-	-	14,150
Biscuits, plain and fancy	16,796	6,860,107	1,956	782,738	-	-	1,956	840,685	1,204	436,112
Chocolate confectionery	27,088,738	7,912,511	1,917,270	709,850	5,560	2,574	158,202	62,932	1,541,325	375,419
Sugar confectionery	19,255,382	4,665,732	1,828,920	381,630	67,580	17,211	488,414	117,330	2,213,245	521,905
Cocoa	-	-	-	-	-	-	-	-	-	-
Ice Cream	1,400,010	1,872,677	84,097	156,936	8,476	13,258	-	-	252,361	352,714
Popcorn	-	115,841	-	5,628	-	-	-	59	-	13,000
All other products	-	3,099,457	-	7,103	-	5,000	-	1,885	-	7,300
<b>Total Value</b>	-	<b>24,785,238</b>	-	<b>2,125,035</b>	-	<b>56,893</b>	-	<b>1,022,891</b>	-	<b>1,725,818</b>

Items of Product

CAPITAL INVESTMENT

The amount of capital invested in the industry in 1924 is shown by provinces in table 4, under two heads: (1) fixed capital represented by land, buildings, machinery and tools and (2) working capital by stocks of materials and supplies on hand, finished products on hand, and cash, trading and operating accounts and bills receivable. All of the provinces but Prince Edward Island and Alberta show increases in total investment ranging from \$841,371 in Ontario to \$10,869 in Saskatchewan, the total increase for the Dominion being \$1,730,000.

Table 4.- Capital Investment by Provinces, 1924.

Province	No. of plants reported	Fixed Capital	Working Capital		Total Capital
		Land, buildings, fixtures, machinery & tools	Materials & supplies on hand, finished products, etc.	Cash, trading & operating accts. etc.	
	No.	\$	\$	\$	\$
Canada	321	23,719,658	7,006,582	7,830,877	38,557,117
P.E. Island	3	10,860	1,190	1,550	13,600
Nova Scotia	11	674,867	508,945	791,433	1,935,245
New Brunswick	12	253,699	575,569	613,881	2,043,149
Quebec	42	5,022,285	1,404,001	1,676,671	8,102,957
Ontario	171	15,101,512	3,803,790	4,153,977	23,059,279
Manitoba	20	594,025	299,664	278,170	1,171,859
Saskatchewan	7	54,874	13,807	9,957	78,638
Alberta	15	413,890	154,180	68,608	636,678
British Columbia	40	1,033,646	245,436	236,630	1,515,712

EMPLOYMENT STATISTICS

Statistics of employment in the biscuit and confectionery industry during the calendar year 1924 are presented in the following series of tables:-

- Table 5. Employees by number, sex and remuneration.
- Table 6. Employees by months.
- Table 7. Working time of plants and employees.

The total number of persons at employment whether on salary or wage payments is shown by sex and remuneration for the Dominion and the provinces in table 5. There was a decrease in 1924 of 838 in the total number of persons employed whether on salaries or wages yet the annual payroll increased by \$1,001,540.

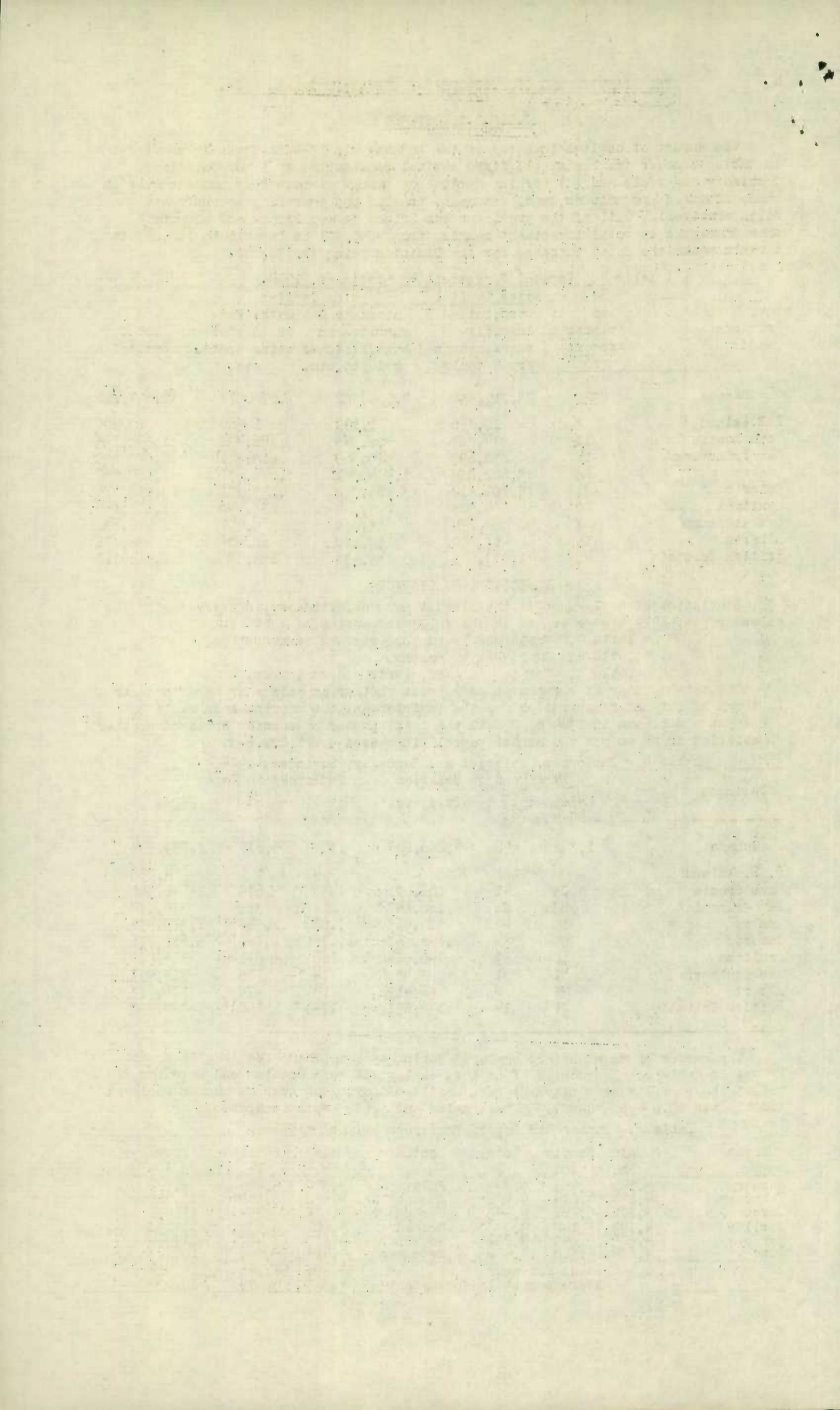
Table 5.- Employees, Salaries and Wages by Provinces, 1924.

Provinces	Employees on Salaries			Employees on Wages		
	Male No.	Female No.	Salaries \$	Male No.	Female No.	Wages \$
Canada	1,356	496	3,286,807	4,355	5,679	8,839,894
P. E. Island	-	-	-	4	1	4,238
Nova Scotia	25	41	106,091	435	615	646,361
New Brunswick	63	22	166,847	218	365	370,072
Quebec	310	49	519,968	1,102	1,348	1,378,431
Ontario	799	354	2,156,857	2,176	2,865	5,682,276
Manitoba	60	9	140,574	166	241	328,200
Saskatchewan	1	1	3,400	14	5	14,993
Alberta	27	6	56,419	65	78	126,773
British Columbia	71	14	136,651	174	162	288,550

The number of wage earners employed during each month of the year is shown by sex in table 6. The months of highest employment were October and November whilst those of lowest employment were April and May. The average number employed monthly was 10,034 of whom 4,355 were males and 5,679 were females.

Table 6.- Number and Sex of Employees by months, 1924.

Months	Male	Female	Total	Months	Male	Female	Total
	No.	No.	\$		No.	No.	\$
January	4,198	5,596	9,795	July	4,370	5,406	9,776
February	4,154	5,274	9,428	August	4,432	5,868	10,300
March	4,182	5,261	9,443	September	4,577	6,454	11,031
April	4,193	5,142	9,335	October	4,602	6,631	11,233
May	4,225	5,059	9,284	November	4,627	6,437	11,064
June	4,232	5,210	9,442	December	4,415	5,808	10,223
	Total for year				52,258	68,146	120,404
	Average monthly employment				4,355	5,679	10,034



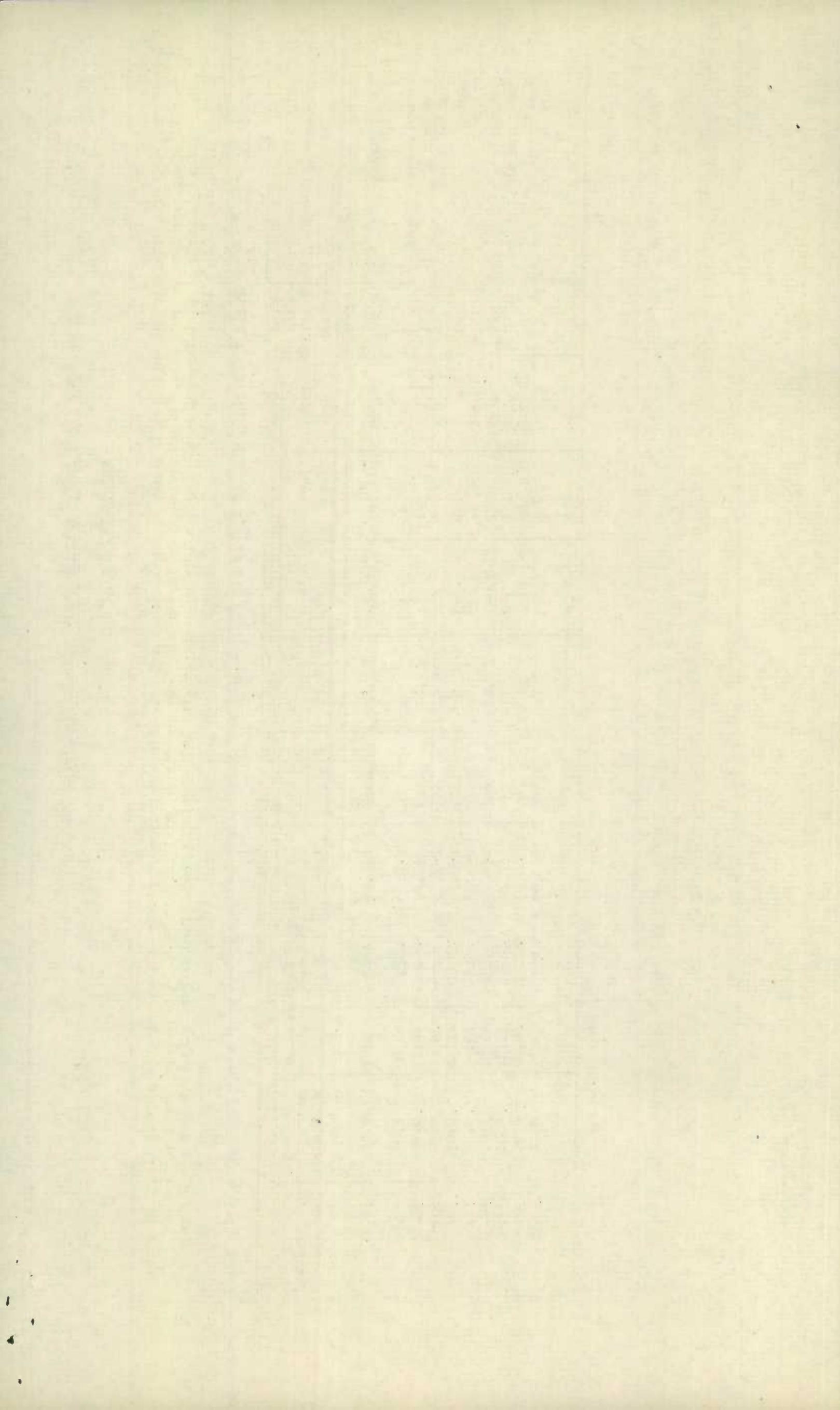
THE BISCUITS AND CONFECTIONERY INDUSTRY IN CANADA 1924.

EMPLOYMENT STATISTICS (contd.)

Working time of plants and employees is shown by provinces in table 7. Operating time of plants is shown according to whether they worked on full time, part time or were idle. Hours worked by employees are shown per day or shift and per week. The average operating time per plant whether on whole or part time was 268.23 days in 1924 as compared with 260.90 days in 1923. The average hours of labour per day were 8.88 in 1924 and 8.26 in 1923.

Table 7.- Working Time of Plants and Employees, 1924.

Provinces	No. of Operating Plants	Days in Operation			Hours worked		Averages of				
		On full time	On Part Time	Idle	Per day or Shift	Per Week	Days in Operation			Hours worked per day	Hours worked per week
							On full time	On part time	Idle		
Canada	321	74,444	11,660	11,480	111,406	15,221	231.91	36.32	35.71	8.88	47.41
Prince Edward Island	3	708	150	54	40	120	236.00	50.00	18.00	8.00	40.00
Nova Scotia	11	2,106	724	514	12,226	565	191.45	65.82	46.73	9.40	51.36
New Brunswick	12	2,925	319	404	6,820	593	243.75	26.58	33.67	9.37	49.42
Quebec	42	10,235	790	1,743	29,068	2,291	293.70	18.80	41.50	9.09	54.55
Ontario	171	40,908	6,044	5,032	53,403	8,020	239.23	35.34	29.43	8.65	46.90
Manitoba	20	4,263	787	1,030	4,173	847	213.15	39.35	51.50	8.50	42.35
Saskatchewan	7	1,112	654	362	274	336	158.85	93.43	51.72	8.84	48.00
Alberta	15	2,228	1,420	912	1,602	699	148.53	94.67	60.80	8.90	46.60
British Columbia	40	9,959	772	1,429	3,800	1,750	248.97	19.30	35.73	8.61	43.75



FUEL CONSUMPTION

The quantity of fuel used during the year is shown by classes in table 8, as is also the cost value laid down at the works which amounted to \$599,058. Coal and coke used constituted approximately 70 per cent of the total, natural and artificial gas 20 per cent and gasoline and fuel oil a little more than 6 per cent.

Table 8.- Fuel Consumption in the Industry, 1924.

Classes of fuel used	Unit of Measure	Quantity	Cost Value at factory
Bituminous coal, all grades	ton	41,991	278,426
Anthracite coal, all grades	"	8,897	127,644
Lignite coal, all grades	"	161	1,652
Coke	"	1,374	16,857
Gasoline	Imp. gallon	66,150	17,920
Fuel oils	"	270,534	18,645
Wood	cord	2,063	13,162
Gas, artificial or natural	M.c.ft.	142,525	119,375
All other fuel not specified	-	-	5,377
Total cost of fuel	-	-	599,058

POWER EMPLOYED

The classes of power employed in the industry are shown by the number of units in each class and by the horsepower according to manufacturers' rating in table 9. Electric motors numbered 2,008 and generated 15,596 horse power. The total number of units producing power for manufacturing purposes was 1,720 with a rated horse power capacity of 17,754. The total cost of electricity purchased during the year was \$185,147 being at the rate of \$13.41 per horse power for all horse power purchased. The number of boilers installed for any purpose was 69 with a boiler horse power capacity of 5,516.

Table 9.- Power employed by classes, 1924.

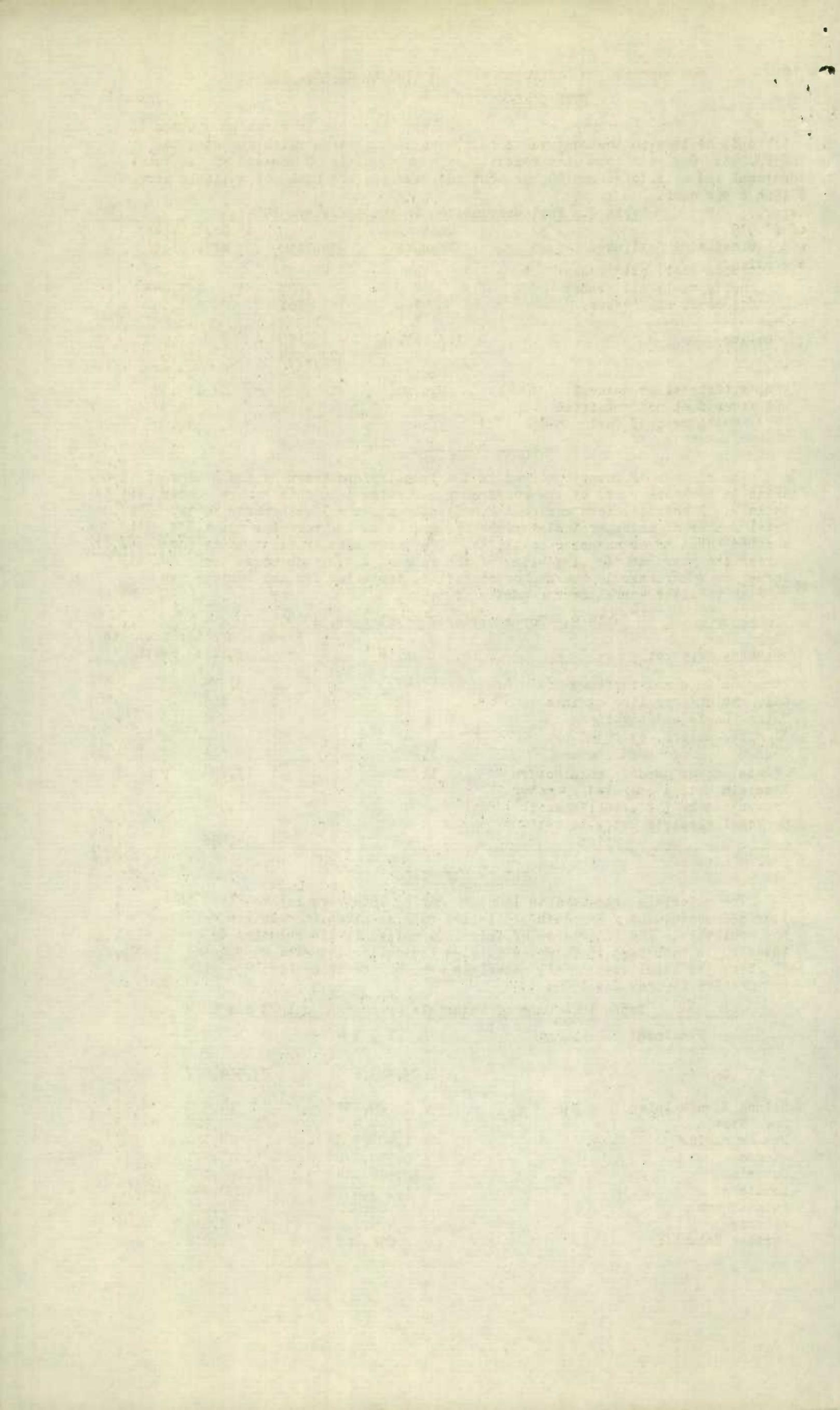
Classes of power	No. of units	Horse power according to manufacturers' rating
Steam engines and turbines	47	3,535
Oil, gas and gasoline engines	9	165
Water-wheels and turbines	2	250
Electric motors, operated by purchased power	1,662	13,804
Total power used in manufacture	1,720	17,754
Electric motors operated by power generated by the establishment	346	1,792
Total electric motor installation	2,008	15,596

COST OF MATERIALS

The materials used in this industry during 1924 were not required to be itemized consequently complete statistics such as given in previous reports are not available. The importance of this information in its relation to the industry is such that in future enquiries its collection will be renewed. Table 10 gives the total cost of all materials used by provinces for 1924 with comparative figures for 1923.

Table 10.- Cost of Materials by provinces 1923 and 1924

Provinces	1924	1923
Canada	23,383,625	23,959,877
Prince Edward Island	20,855	14,559
Nova Scotia	1,694,418	1,352,826
New Brunswick	1,403,368	1,574,380
Quebec	5,350,876	6,017,381
Ontario	12,556,004	12,230,163
Manitoba	1,009,099	1,290,349
Saskatchewan	24,010	41,062
Alberta	466,708	458,885
British Columbia	858,287	980,272



## IMPORTS AND EXPORTS

Table 11 presents the imports for consumption and the exports of Canadian produce for the calendar year 1924 by commodities and countries. Including imports of chicle the total value in 1923 of imports was \$1,272,182 while in 1924 the total value was \$1,305,408 being an increase during the year of \$33,226. The value of Canadian goods exported during the year 1924 was \$559,446 as against \$567,365 in 1923 or a decrease of \$7,919. Of the total value of goods imported 56.4 per cent came from Britain and her colonies, whilst the percentage of Canadian produce exported to the same was approximately 80 per cent.

Table 11.- Imports and Exports of Biscuits, Confectionery, etc. during the calendar year 1924

I M P O R T S			E X P O R T S		
Articles by countries	Quantity	Value	Articles by countries	Quantity	Value
		\$			\$
Biscuits, not sweetened	Lb.		Biscuits and bread	Cwt.	
United Kingdom	546,064	50,318	United States	1,227	11,328
United States	541,659	75,882	Br. Guiana	1,659	22,247
Other countries	35,647	5,650	Br. Honduras	277	4,298
Totals	1,123,370	131,850	Bermuda	483	6,242
Biscuits, sweetened	Lb.		Barbados	772	10,452
United Kingdom	129,850	45,327	Jamaica	684	11,692
United States	335,666	52,518	Other B.W. Indies	1,362	17,358
Other countries	44,734	8,855	Other countries	623	10,961
Totals	510,250	106,700	Totals	7,087	94,578
Confectionery, coated with or containing chocolate	Lb.		Canada	Lb.	
United Kingdom	155,209	77,264	United Kingdom	38,115	15,877
United States	43,017	13,378	United States	192	86
Other countries	115,351	30,999	Br. South Africa	281,695	75,153
Totals	313,583	121,641	Newfoundland	424,329	150,312
Sugar candy and confec- tionery of all kinds, n.o.p.	Lb.		New Zealand	261,695	82,087
United Kingdom	2,323,802	455,378	Australia	16,491	7,401
United States	701,944	141,005	Bermuda	23,587	7,499
Other countries	165,565	30,367	Other B.W. Indies	45,387	14,601
Totals	3,191,311	626,750	Other countries	73,879	29,701
Chicle or sapsap gum, crude	Lb.		Totals	1,165,370	382,717
United States	529,099	210,611	Confectionery, n.o.p. (value only)		
British Honduras	217,377	107,856	United Kingdom	-	22,176
Totals	746,476	318,467	United States	-	124
Total imports by countries (value only)			Other countries	-	42,974
United Kingdom	-	623,287	Totals	-	65,274
United States	-	493,394	Chewing gum (value only)		
Br. Honduras	-	107,856	United Kingdom	-	12
Other countries	-	5,371	Other countries	-	15,865
Total Imports		1,305,408	Totals	-	16,377
			Total Exports by countries (value only)		
			United Kingdom	-	38,065
			United States	-	11,538
			Br. S. Africa	-	75,153
			Newfoundland	-	150,312
			New Zealand	-	82,087
			Australia	-	7,401
			Br. Possessions	-	40,286
			Br. W. Indies	-	54,103
			Other countries	-	100,501
			Grand Total Exports	-	559,446



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A large table with multiple columns and rows, containing very faint and illegible data. The table structure is difficult to discern due to the low contrast and blurriness of the document.