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DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

OTTAWA, CANADA.

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BREAD AND OTHER BAKERY PRODUCTS, 1921.

Ottawa, April, 1923.-- The report on the above named industry is herewith presented by the Dominion Bureau of Statistics covering the operations for the calendar year 1921. The report is distinct from that of the Biscuit and Confectionery industry, yet it shows a small quantity of both biscuits and confectionery as having been manufactured during the year. Compared with the previous year, there was a decrease in the value of products amounting to \$10,432,716, which is almost wholly accounted for by the drop in the cost of the materials used, that prevailed almost throughout the entire list. The number of plants reporting to the Bureau in 1921, distributed by location within provinces, was as follows: Alberta, 92; British Columbia, including Yukon, 101; Manitoba, 70; New Brunswick, 35; Nova Scotia, 33; Ontario, 729; Prince Edward Island, 7; Quebec, 518; and Saskatchewan, 73, making a total for the Dominion of 1,658.

PRINCIPAL STATISTICS

Table 1 presents the principal statistics of the industry for the Dominion and the provinces for the calendar year 1921. In the number of bakeries reporting to the Bureau there was a decrease of 111 from the previous year, which would account for the decrease in capital investment, amounting to \$61,439. The number of persons employed on salaries and wages decreased by 167 and in the amounts paid to all classes of employees there was a decrease of \$231,903. The cost of materials used in the industry dropped from \$38,239,135 in 1920 to \$29,202,936, notwithstanding that the quantity of flour purchased had risen from 2,396,800 barrels in 1920 to 2,483,303 barrels in 1921. The approximate average price of the principal materials used are shown in the summary statement following --

Article	Unit	1920	1921	Increase + Decrease -
		\$ ¢	\$ ¢	\$ ¢
Flour	bbl.	12.37	8.78	- 3.59
Malt	lb.	.154	.149	- .005
Yeast	lb.	.297	.311	+ .014
Salt	bbl.	2.84	3.42	+ .580
Sugar	lb.	.163	.097	- .066
Jard	lb.	.266	.157	- .109
Butter	lb.	.44	.34	- .100
Eggs	doz.	.50	.45	- .05
Cocoonut	lb.	.31	.229	- .081
Chocolate ...	lb.	.32	.316	- .004

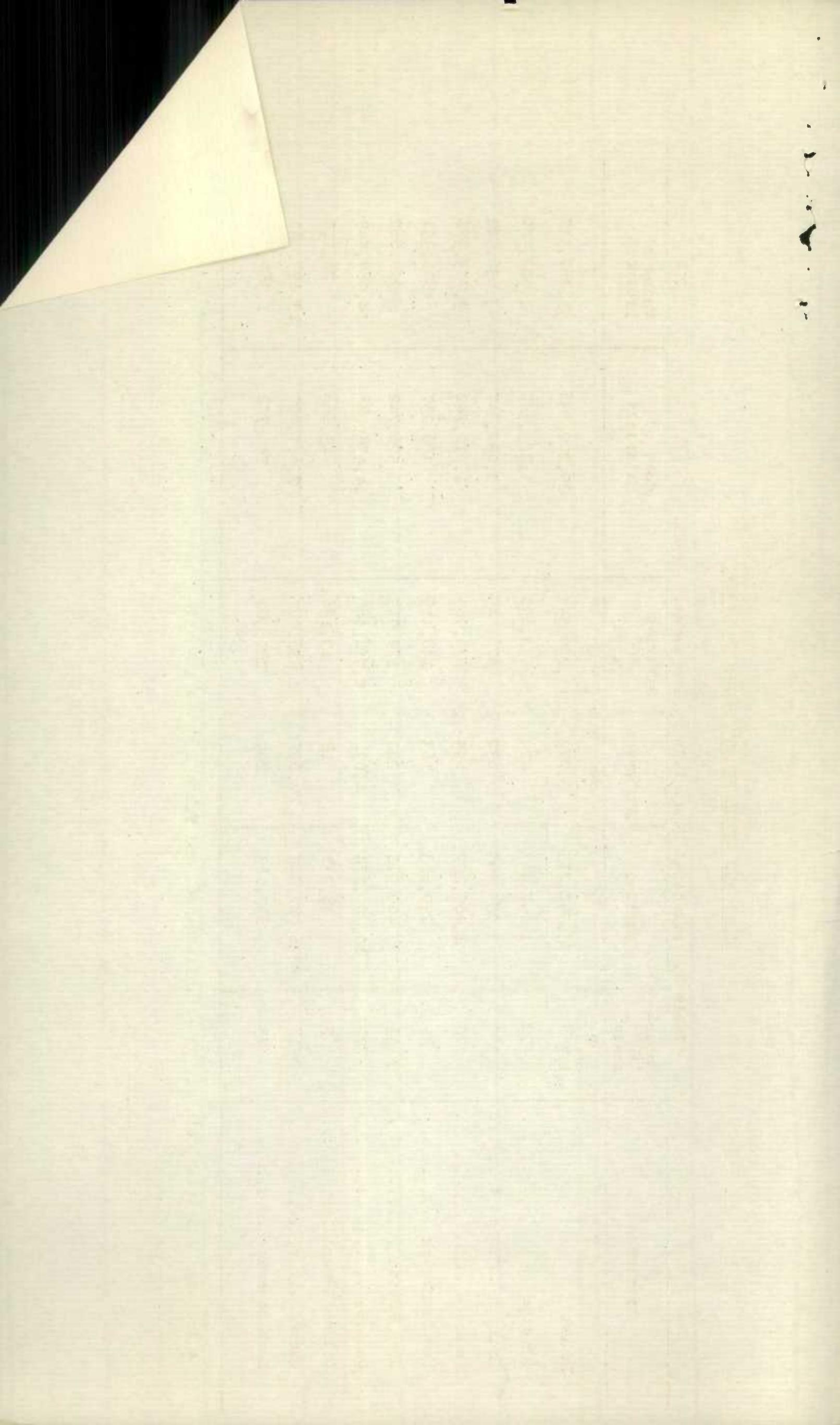
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BREAD AND OTHER BAKERY PRODUCTS, 1921.

Table 1. Principal Statistics by Provinces, 1921.

Provinces	Establishments	Capital	Employees	Salaries and Wages	Cost of Materials	Value of Products
	No.	\$	No.	\$	\$	\$
CANADA	1,658	23,551,215	9,773	11,290,553	29,202,936	51,367,917
Alberta	92	1,442,463	420	552,692	1,329,340	2,602,410
British Columbia ¹	101	1,155,493	632	876,545	2,032,347	3,636,521
Manitoba	70	1,465,192	655	870,969	1,910,742	3,723,376
New Brunswick	35	259,083	163	148,419	466,237	801,331
Nova Scotia	33	400,611	202	172,015	576,742	958,662
Ontario	729	10,990,134	4,691	5,546,460	14,438,088	24,989,549
Prince Edward Island ...	7	18,231	18	13,156	43,666	78,112
Quebec	518	6,982,845	2,697	2,828,995	7,655,002	13,197,481
Saskatchewan	73	837,163	295	281,302	750,772	1,380,475

¹ Includes - British Columbia 99 establishments, and Yukon 2 establishments.



BREAD AND OTHER BAKERY PRODUCTS, 1921.

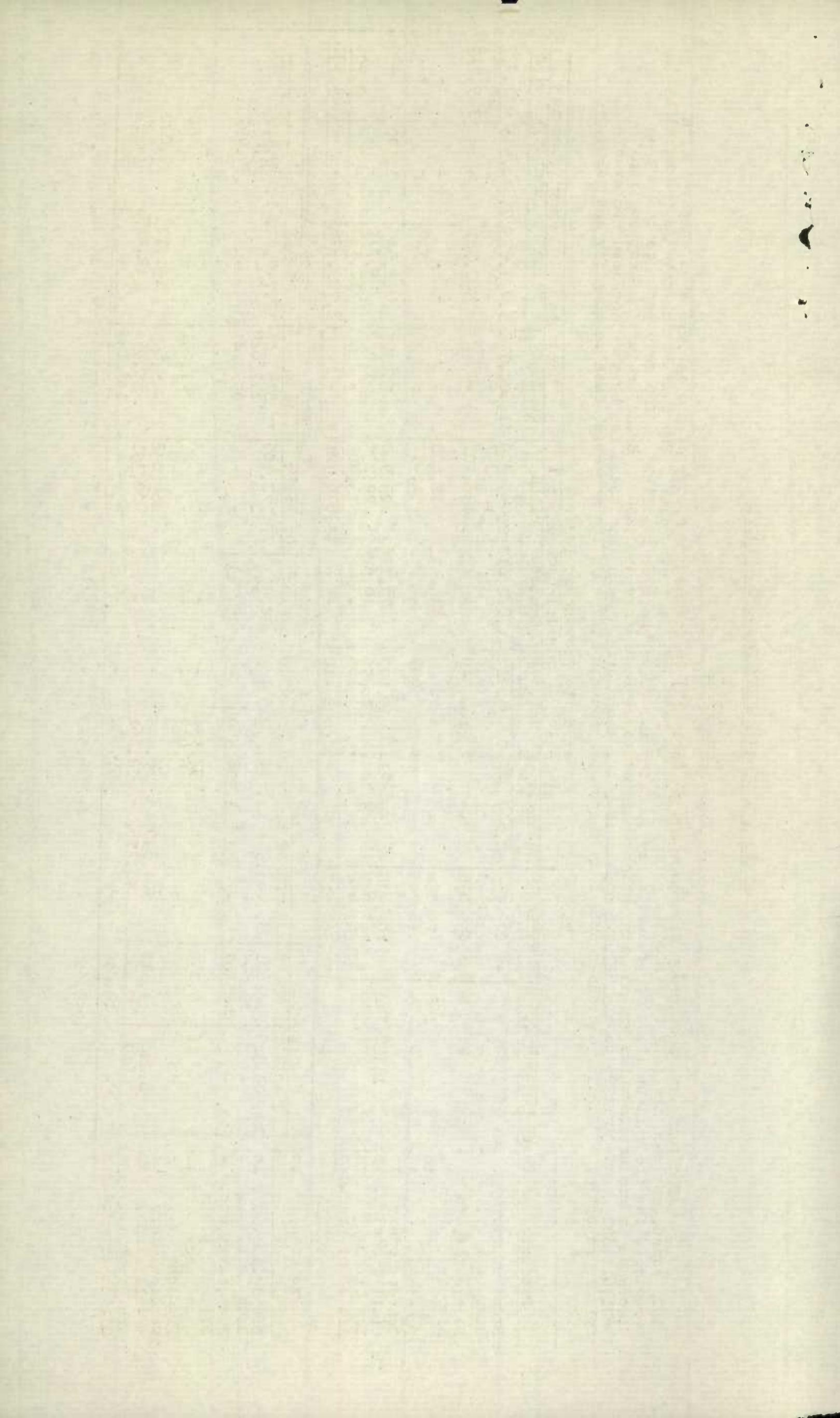
PRODUCTION

The total value of production as shown in table (2) indicates a decrease of \$10,432,716 when compared with 1921 consequent upon the fall of commodity prices which in 1920 were at their peak. The statistical data is presented by provinces for the various items of production by quantity and value wherever available. The only province showing an increase in production value was Alberta, which amounted to approximately \$200,000. Bread production dropped from 621,611,862 pounds in 1920 to 613,629,022 pounds in 1921, the shortage being accounted for by the decreased number of plants reporting. Similar decreases obtain in the other products listed on the schedule, both in quantity and value.

Table 2. Production by Provinces, 1921.

Products	Unit	CANADA		Alberta		British Columbia		Manitoba		New Brunswick	
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Bread	lb.	613,629,022	42,223,595	32,660,045	2,304,912	41,822,612	2,954,279	41,628,743	3,023,895	7,848,545	601,237
Buns	-	-	1,452,413	-	68,357	-	106,857	-	101,604	-	10,942
Pies, cakes, etc.	-	-	6,459,038	-	162,540	-	486,401	-	562,321	-	185,818
Biscuits, plain and fancy	ton	168	76,284	-	-	31	17,600	-	-	-	-
Puddings	-	-	10,245	-	639	-	1,692	-	510	-	-
Confectionery (all kinds) ..	lb.	1,528,702	495,538	59,831	35,127	79,136	23,960	55,375	16,849	1,100	430
Ice Cream	gal.	104,224	167,087	5,144	12,359	10,626	22,230	3,070	5,775	-	-
All other products	-	-	483,717	-	18,476	-	23,502	-	12,422	-	2,904
TOTALS	-	-	51,367,917	-	2,602,410	-	3,636,521	-	3,723,376	-	301,331

Products	Unit	Nova Scotia		Ontario		P.E.I. Island		Quebec		Saskatchewan	
		Quantity	Value	Quantity	Value	Quan.	Value	Quantity	Value	Quantity	Value
Bread	lb.	10,503,380	797,621	283,063,591	19,644,109	934,938	72,027	177,377,106	11,636,326	17,740,012	1,189,119
Buns	-	-	29,804	-	887,965	-	222	-	207,620	-	39,042
Pies, cakes, etc.	-	-	106,367	-	3,906,560	-	5,793	-	957,141	-	86,097
Biscuits, plain and fancy	ton	16	6,250	121	52,434	-	-	-	-	-	-
Puddings	-	-	-	-	6,043	-	-	-	1,281	-	80
Confectionery (all kinds) ..	lb.	8,200	3,810	504,899	160,445	-	-	669,038	215,895	151,123	39,022
Ice Cream	gal.	640	960	50,378	72,661	-	-	22,351	35,974	12,015	17,128
All other products	-	-	13,850	-	259,332	-	-	-	143,244	-	9,987
TOTAL	-	-	958,662	-	24,939,549	-	78,112	-	13,197,481	-	1,380,475



BREAD AND BAKERY PRODUCTS, 1921.CAPITAL

Capital investment in the industry is shown by items in table (3). Increases are indicated in the items of land, buildings and fixtures (\$593,579) and in machinery and tools (\$723,683) whilst in respect of the remaining items decreases are shown amounting to \$1,086,418 and \$292,283 respectively. The net decrease in the total of capital investment compared with the previous year amounted to \$61,439.

Table 3. Capital Investment, 1921.

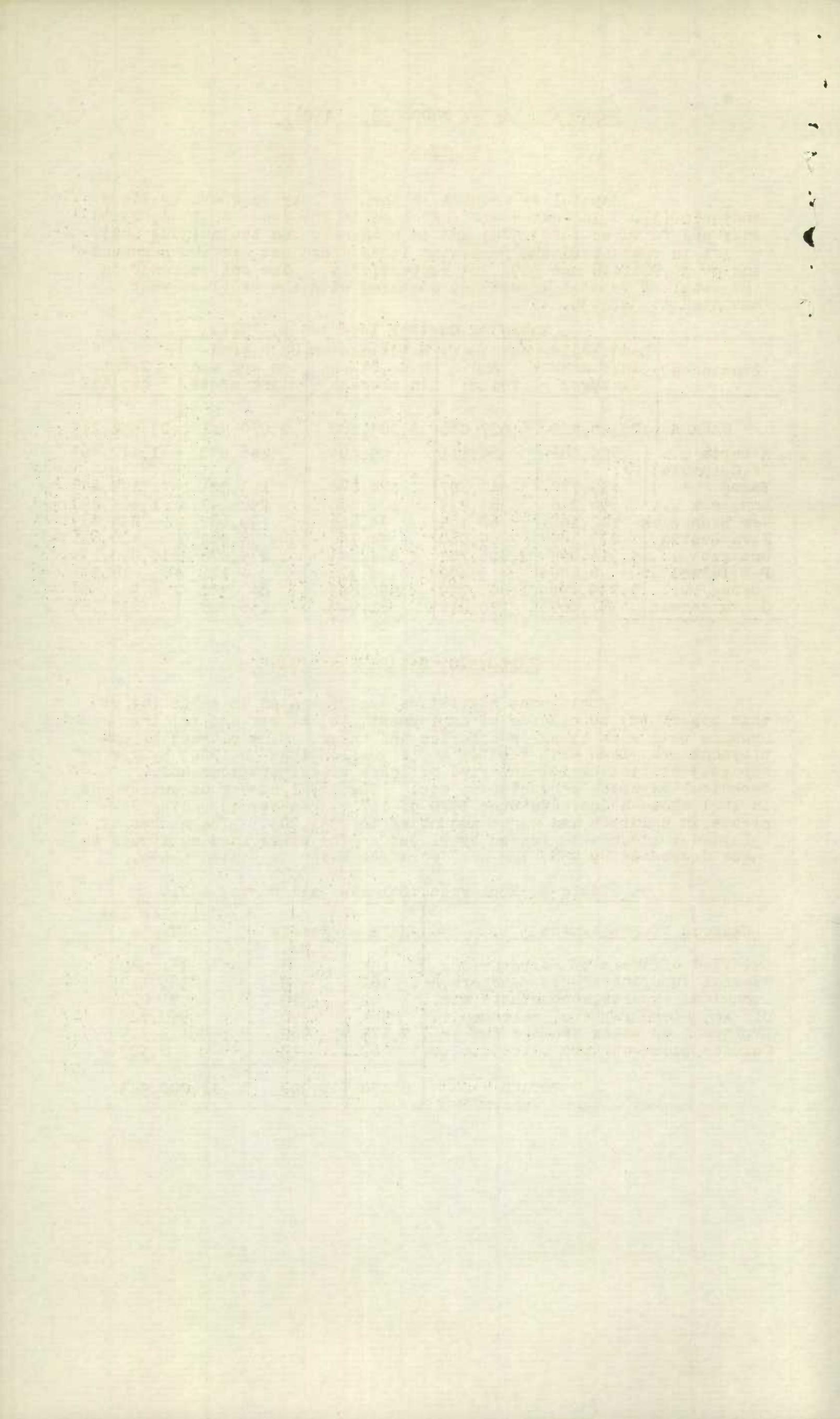
Provinces	Land, buildings and fixtures	Machinery and tools	Materials on hand, stocks in process	Cash, trading and operating accts.	Total capital
CANADA	\$ 12,350,429	\$ 6,027,088	\$ 2,203,187	\$ 2,970,511	\$ 23,551,215
Alberta ...	825,786	365,111	95,494	156,072	1,442,463
Br. Columbia } Yukon)	439,777	347,307	174,688	193,221	1,155,493
Manitoba ...	696,238	383,939	126,868	258,147	1,465,192
New Brunswick	122,100	62,485	34,816	39,682	259,083
Nova Scotia	223,165	85,060	54,106	38,280	400,611
Ontario	5,914,005	2,806,708	1,034,143	1,235,278	10,990,134
P.E. Island .	6,400	3,400	4,320	4,111	18,231
Quebec	3,735,491	1,801,759	596,803	843,792	6,982,845
Saskatchewan	387,467	170,819	81,949	196,928	837,163

EMPLOYEES, SALARIES AND WAGES

Employment statistics are presented in table (4) of this report (a) by classes of employment, (b) by sex and (c) the amounts paid each class in salaries and wages. The classes of employment are given with greater amplification than in 1920, by giving separate statistics for salaried officers of corporations and technical experts, accountants, etc. The total number at employment in 1921 shows a decrease over 1920 of 167 with a corresponding decrease in salaries and wages amounting to \$231,903. The number of salaried employees increased by 91 but on the other hand employees on wages decreased by 258, the net decreases being as stated above.

Table 4. Employees, Salaries and Wages, 1921.

Classes of Employment	Male No.	Female No.	Salaries and Wages
			\$
Salaried officers of corporations	155	8	381,589
General superintendents, managers, &c.	162	5	366,119
Technical experts, accountants, etc.	62	19	91,072
Clerks, stenographers, salesmen, ...	554	296	959,925
Employees on wages, average number	7,475	962	9,483,319
Outside piece-workers	62	13	8,529
TOTALS	8,470	1,303	11,290,553



BREAD AND OTHER BAKERY PRODUCTS, 1921.

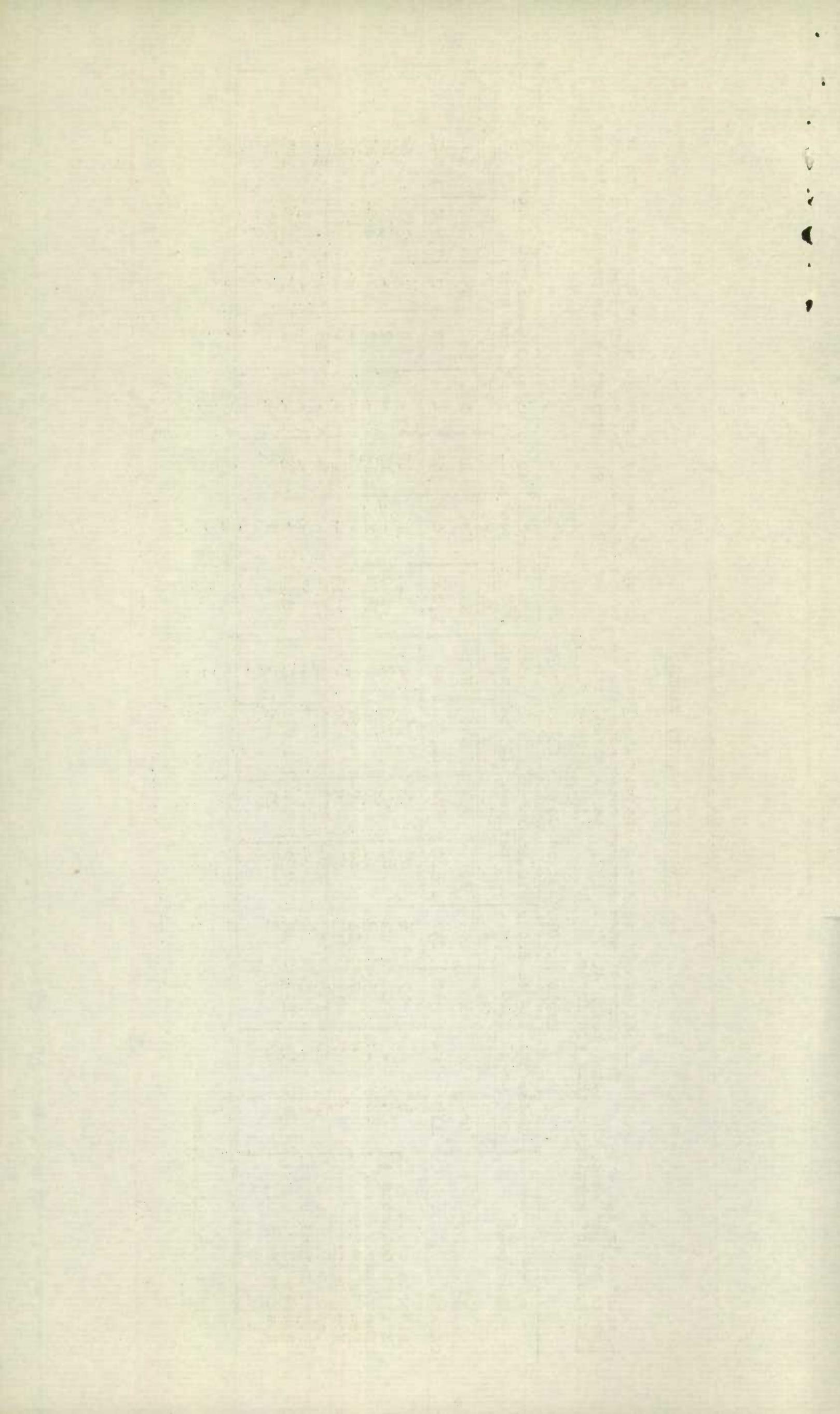
CLASSIFIED WEEKLY WAGES.

A classification of wage earners within specified groups of weekly earnings as at December 15th is presented in table (5). The class of wage earners comprising the greatest number was that in which wages ranged from \$20 to \$30 per week, the total being 4,199 in 1921, as compared with 3,698 in 1920. The statistics are presented by sex and groups of earnings within provinces.

Table 5. Classified Weekly Wages by Provinces, 1921.

Provinces	Under \$5 per week		\$5 to under \$10 per wk.		\$10 to under \$20 per week		\$20 to under \$30 per week		\$30 to under \$40 per week		\$40 to under \$50 per week		\$50 per wk and over		Total	
	Male	Female	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Male	Female
	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
CANADA	119	54	340	257	1,820	674	4,150	49	1,268	6	156	-	37	2	7,890	1,042
Alberta	8	1	17	6	42	53	160	4	115	1	10	-	9	-	361	65
British Columbia ¹	5	-	12	11	62	53	263	2	147	-	15	-	2	-	506	66
Manitoba	4	-	5	3	48	50	253	8	130	1	13	-	2	-	460	62
New Brunswick	2	5	7	21	44	9	51	1	5	-	6	-	-	-	115	36
Nova Scotia	3	7	11	12	49	5	67	-	13	-	-	-	-	-	143	24
Ontario	56	26	149	153	788	379	2,106	22	674	-	84	-	18	1	3,875	581
P. E. Island	1	-	1	4	9	-	2	-	-	-	-	-	-	-	13	4
Quebec	34	13	133	45	750	104	1,081	7	143	2	22	-	6	1	2,169	172
Saskatchewan	6	2	5	2	28	21	162	5	41	2	6	-	-	-	248	32

¹ Includes Yukon.



BREAD AND OTHER BAKERY PRODUCTS, 1921.

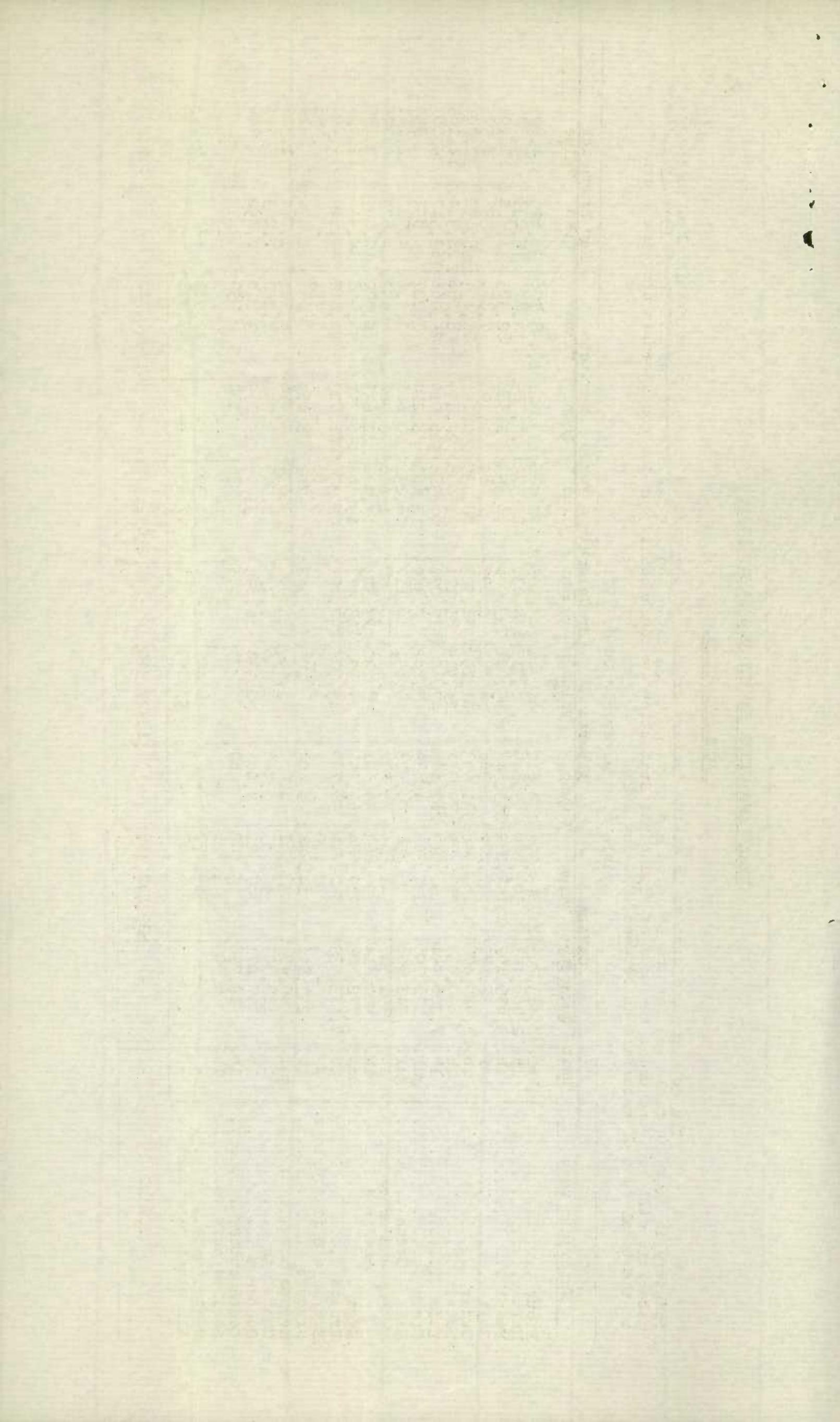
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MATERIALS USED.

The quantity and cost value at the factory or shop of the various classes of materials used in the industry is shown in table (6) for the Dominion and provinces. A table showing the average cost of the principal materials will be found under the head of "Principal Statistics" which accounts for the considerable decrease shown in the total cost of materials as between 1920 and 1921.

Table 6. Materials Used, 1921.

Materials used	Unit	CANADA		Alberta		Br. Columbia & Yukon		Manitoba		New Brunswick	
		Quantity	Value	Quan.	Value	Quan.	Value	Quan.	Value	Quan.	Value
Flour	bbl.	2,483,303	21,223,793	130,612	941,341	143,398	1,477,066	193,311	1,438,776	31,625	314,895
Malt	lb.	2,066,403	309,780	59,849	8,917	139,030	25,572	94,725	16,816	15,233	2,325
Yeast	lb.	3,699,167	1,149,282	243,343	95,621	295,064	96,553	271,538	82,363	51,510	17,204
Salt	bbl.	37,172	127,270	1,968	8,282	2,897	7,084	1,808	7,878	338	1,575
Sugar	lb.	12,020,476	1,165,948	531,933	61,296	736,523	78,435	850,151	81,104	358,152	32,001
Butter	lb.	640,839	217,370	79,914	24,515	81,171	31,008	24,834	8,286	28,314	11,165
Lard	lb.	7,206,594	1,131,919	267,668	47,431	517,078	92,983	526,910	75,066	163,547	25,087
Cream	gal.	136,756	257,901	4,889	7,842	7,350	11,663	5,214	7,227	851	966
Milk - fresh	gal.	241,808	95,758	28,523	9,851	16,117	6,231	10,646	3,316	4,782	2,161
condensed	lb.	391,987	41,804	3,022	-	478	10,398	1,666	-	452	4,825
powdered	lb.	522,814	99,803	39,601	8,232	77,323	19,436	22,633	5,070	12,005	2,190
Eggs	doz.	1,772,608	717,684	61,251	24,893	163,438	65,303	136,711	53,998	35,546	15,674
Fruits	lb.	2,473,539	552,710	58,769	14,925	202,601	45,328	271,623	54,019	44,314	14,212
Extracts & flavourings	#	-	52,180	-	1,815	-	5,566	-	3,451	-	945
Glucose	lb.	253,806	14,854	1,404	-	109	9,952	702	8,465	638	2,894
Syrups	gal.	40,494	33,567	2,021	3,469	5,966	3,634	4,416	4,701	1,784	1,313
Chocolate	lb.	129,307	40,833	4,246	1,526	8,235	2,949	3,754	1,222	1,203	513
Cocoanut	lb.	207,271	47,321	9,664	2,534	14,655	3,705	15,785	3,810	2,352	740
Cocoa butter	lb.	19,798	5,502	60	26	125	36	100	50	-	-
Shelled nuts	lb.	6,903	1,722	-	-	-	-	-	-	-	-
Boxes, cases, labels, etc.	-	-	319,272	-	8,447	-	10,392	-	12,521	-	5,922
All other materials ..	-	-	996,663	-	57,790	-	47,030	-	49,978	-	16,120
TOTALS	-	-	29,202,936	-	1,329,340	-	2,032,347	-	1,910,742	-	466,237

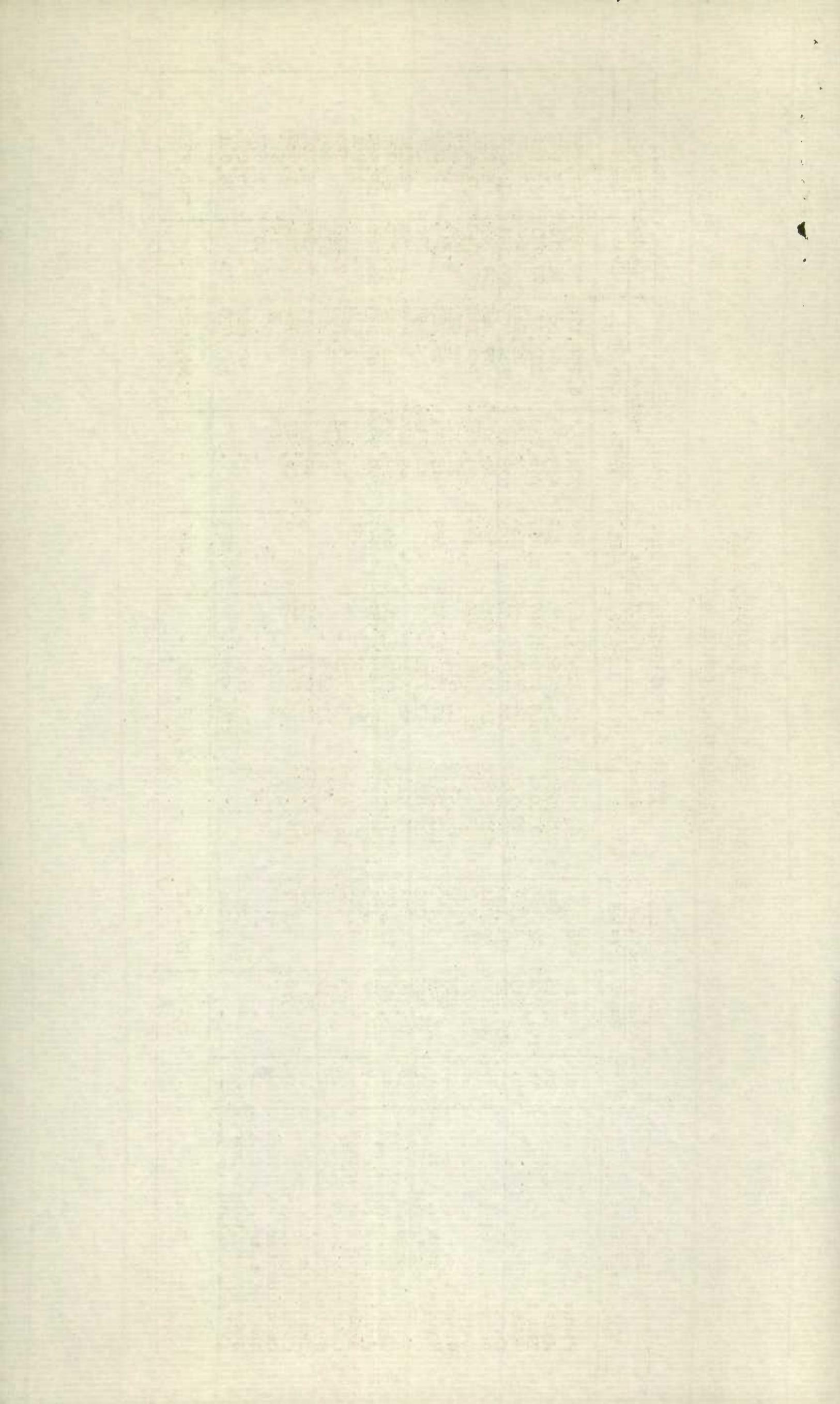


BREAD AND OTHER BAKERY PRODUCTS, 1921.

MATERIALS USED, continued

Table 6. continued.

Materials used	Unit	Nova Scotia		Ontario		P.E.I.		Quebec		Saskatchewan	
		Quan.	Value	Quan.	Value	Quan.	Value	Quan.	Value	Quan.	Value
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Flour	bbl.	43,419	408,330	1,163,035	10,411,325	3,463	33,549	704,854	6,254,176	69,586	544,335
Malt	lb.	3,558	699	1,271,960	184,946	2,000	300	443,186	64,268	36,862	5,937
Yeast	lb.	101,754	31,349	1,903,036	569,406	8,367	2,977	746,834	223,223	77,721	30,586
Salt	bbl.	719	4,317	20,591	64,397	45	231	7,922	29,513	884	3,993
Sugar	lb.	388,612	34,144	6,770,069	640,788	16,460	1,551	2,078,425	204,777	290,151	31,852
Butter	lb.	36,833	9,784	232,295	80,163	726	258	142,009	47,165	14,743	5,026
Lard	lb.	211,670	38,533	4,143,433	625,848	7,980	1,310	1,193,568	194,170	174,740	31,481
Cream	gal.	225	492	84,535	168,632	-	-	28,058	52,522	5,634	8,557
Milk - fresh	gal.	13,087	5,472	112,739	47,771	1,930	679	48,651	18,183	5,333	2,094
condensed	lb.	2,245	292	321,020	32,772	-	-	46,733	5,153	778	166
powdered	lb.	34,319	5,853	276,511	48,081	-	-	49,170	8,630	11,252	2,311
Eggs	doz.	38,904	17,472	956,004	401,559	2,229	605	329,755	121,958	48,770	16,222
Fruits	lb.	12,347	2,103	1,523,938	338,140	1,587	359	289,592	69,133	68,768	14,491
Extracts & flavourings	-	-	4,216	-	29,220	-	51	-	5,155	-	1,761
Glucose	lb.	1,300	95	145,727	8,670	-	-	74,641	3,785	9,423	541
Syrups	gal.	897	717	17,786	11,668	-	-	6,793	7,162	831	903
Chocolate	lb.	1,817	548	62,256	20,553	18	5	40,204	11,111	7,574	2,406
Cocoanut	lb.	24,576	3,007	107,132	25,846	24	8	26,869	5,984	6,214	1,687
Cocoa butter	lb.	-	-	15,738	4,587	-	-	560	191	3,215	612
Shelled nuts	lb.	-	-	400	50	-	-	-	-	6,503	1,672
Boxes, cases, labels, etc..	-	-	273	-	185,594	-	-	-	90,065	-	6,058
All other materials	-	-	9,041	-	538,072	-	1,783	-	238,678	-	38,081
TOTALS	-	-	576,742	-	14,438,088	-	43,666	-	7,655,002	-	750,772



BREAD AND OTHER BAKERY PRODUCTS, 1921.FUEL CONSUMPTION

Fuel consumption is dealt with in table (7), which shows the quantity and cost value at the factory or shop of the different kinds of fuel used in the industry, the total outlay in 1921 amounting to \$1,176,138, of which fuel of Canadian origin was valued at \$720,460 and that of foreign origin at \$455,678. Anthracite coal worth \$327,235 was the leading fuel used, followed in order by wood worth \$291,070, coke worth \$255,635 and bituminous coal worth \$145,656.

Table 7. Fuel Consumption by Classes, 1921.

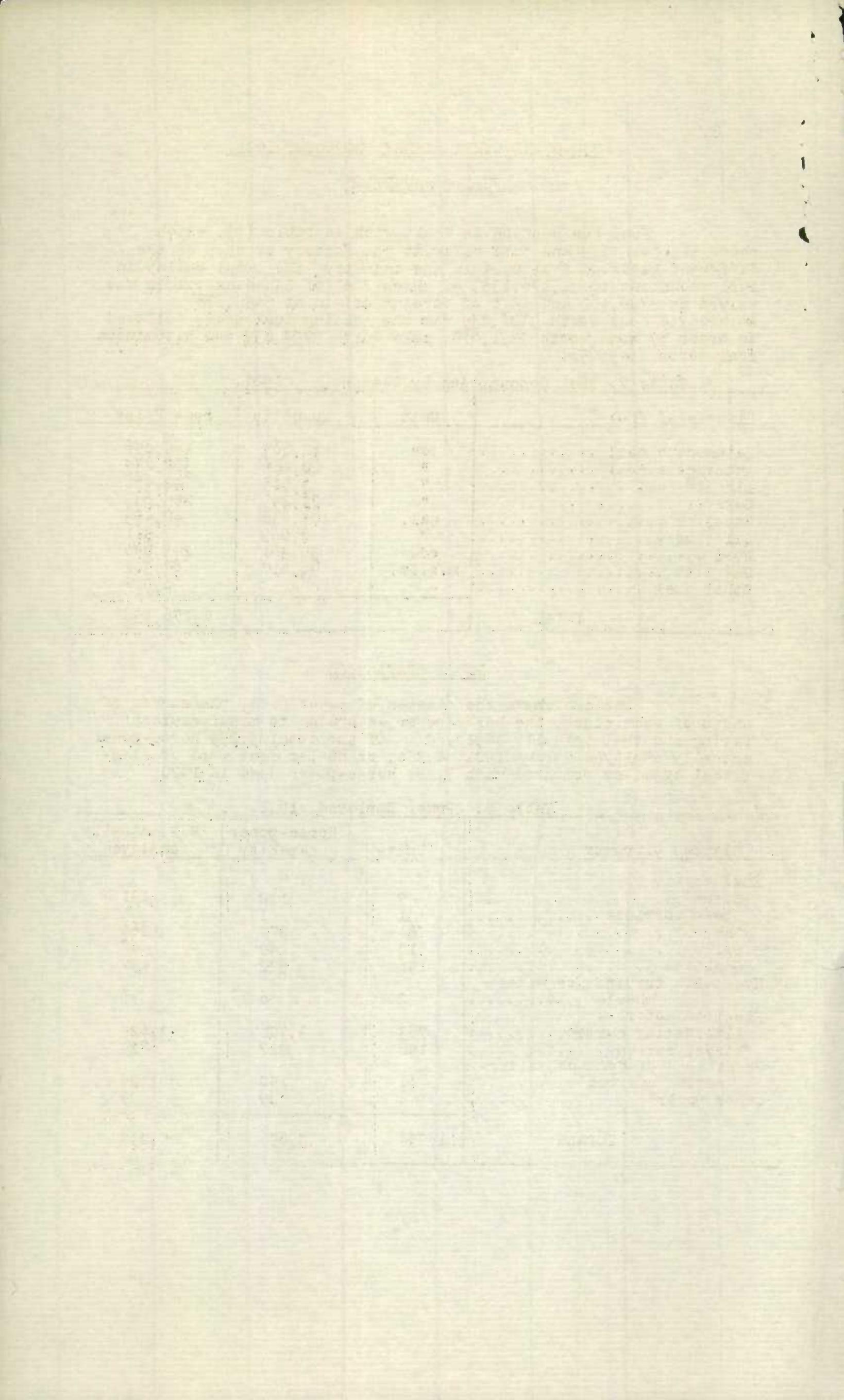
Classes of fuel	Unit	Quantity	Cost Value
Bituminous coal	ton	12,263	\$145,656
Anthracite coal	"	20,486	327,235
Lignite coal	"	3,943	42,468
Coke	"	22,299	255,635
Gasoline	gal.	104,638	40,405
Oil (fuel)	"	2,069	311
Wood	ed.	50,361	291,070
Gas	m.c.ft.	96,017	67,341
Other fuel	-	-	6,017
TOTAL			1,176,138

POWER STATISTICS

Table 8 shows the classes of power used, the number of units of each class, the horse-power according to manufacturers' rating and that actually employed. Of the total 5,255 horse-power actually employed during 1921, 4,254, or 80 per cent were of electrical type, as compared with 3,954 horse-power used in 1920.

Table 8. Power Employed, 1921.

Classes of power	Units	Horse-power capacity	H.P. actually employed
Engines -			
Steam	9	132	131
Steam turbines	1	1	1
Gas	64	272	264
Oil	12	49	48
Gasoline	156	522	497
Hydraulic turbines or water wheels	2	6	6
Electric motors -			
Alternating current	783	3,708	3,425
Direct current	198	927	829
Generators or dynamos, alternating current	1	50	25
Other power	8	29	29
TOTALS	1,234	5,696	5,255



BREAD AND OTHER BAKERY PRODUCTS, 1921.MISCELLANEOUS EXPENSES

The cost of miscellaneous or overhead charges in 1921 is shown in table (9) by principal items. The largest specified item was for repairs to buildings and machinery amounting to \$572,138. Rent of offices, etc. is next with an outlay of \$452,259, followed in order by taxes amounting to \$359,923, advertising expenses to \$276,863, insurance to \$254,930 and rented power, \$146,480.

Table 9. Miscellaneous Expenses, 1921.

Items of Expense	Amount
Rent of offices, works and machinery	\$ 452,259
Rent of power	146,480
Insurance (premiums for year only) .	254,930
Taxes, all kinds	359,923
Royalties, use of patents, etc.....	1,663
Advertising expenses	276,863
Travelling expenses	57,302
Repairs to buildings and machinery .	572,138
All other sundry expenses	2,299,422
TOTAL	4,420,980

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