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C A N A D A DEPARTMENT OF TRADE AND COMMERCE DOMINION BUREAU OF STATISTICS CENSUS OF INDUSTRY

REPORT

on the

BREAD & OTHER BAKERY PRODUCTS INDUSTRY

in CANADA 1928

Bank of Canada LIBRARY RESEARCH DEPARTMENT

Published by Authority of the Hon. James Malcolm, M.P.. Minister of Trade and Commerce

+ + + OTTAWA 1930



NOTE.- The statistics published in the present statement include only the statistics of such manufacturing establishments as make Bread, Pastry etc., as their principal products. Statistics relating to specific products are therefore not to be regarded as comprehensive, as products like, bread, buns, pies, cakes and puddings are also found as secondary products of other industries such as Eiscuits and confectionery.

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(See summary table, page 2.)

DEPART.ENT OF TRADE AND COLLERCE DOMINION BUREAU OF STATISTICS CENSUS OF INDUSTRY

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

THE BRY D AND BAKERY PRODUCTS INDUSTRY IN CANADA, 1928.

Ottawa, February, 1930.- The annual report on the Baking Industry in Canada for the calendar year 1928 is herewith presented. This report is distinct from the Fiscuit and Confectionery industry and yet similar items of production appear in both reports so that in order that a complete and comprehensive survey of the industry may be obtained a study of both reports will be found necessary. A subsequent paragraph under the head of "Production" deals specifically with this feature.

The number of individual establishments reporting to the Bureau during the year was 2,482, an increase of 39 over the previous year as will be seen from the following table showing the location of the various plants by provinces for the calendar years 1927 and 1928.

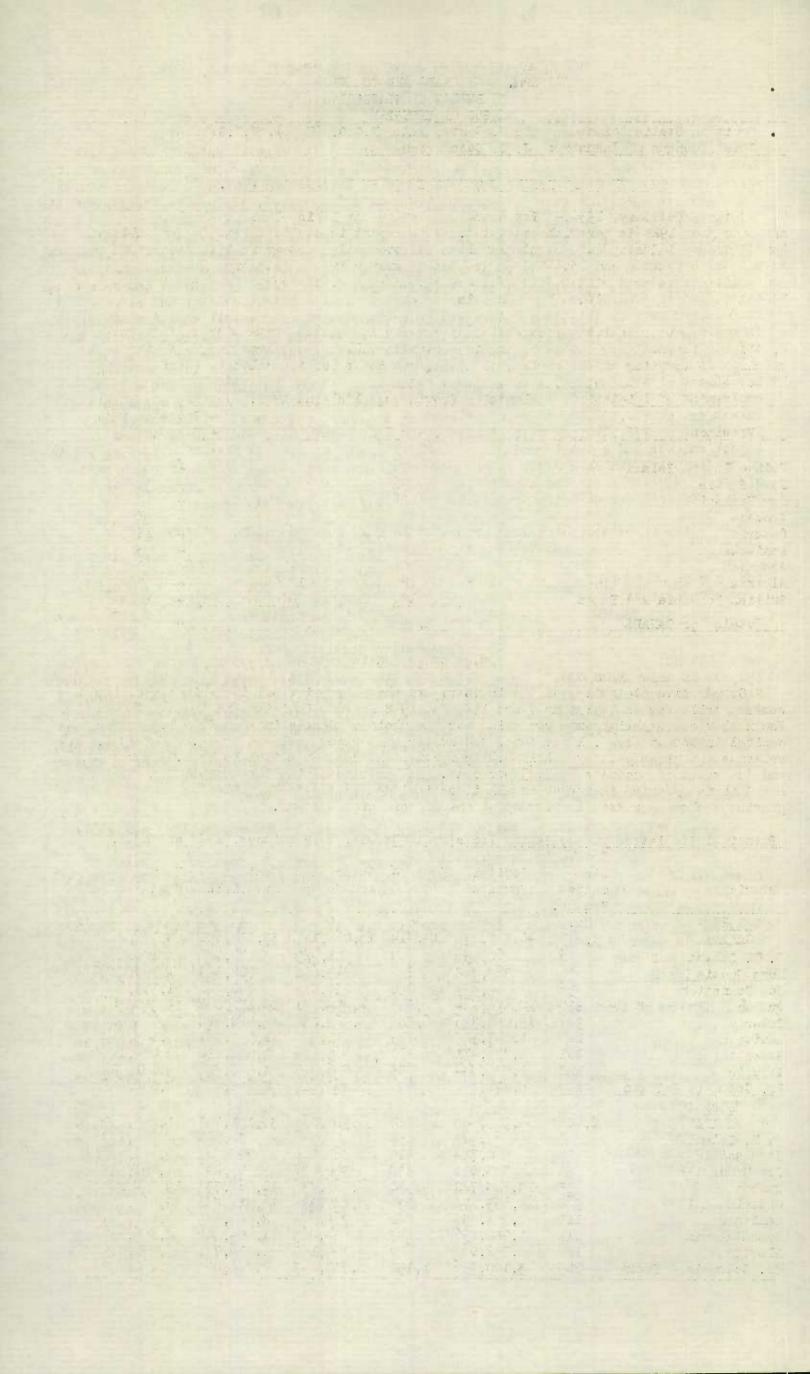
Location of Plants by	y Provinces,	1927 and 1928.	
	1		4 Increase and
Province	1927	1928	- Decrease
Dulars Thursd Taland		g	1 2
Prince Edward Island	-t		
Nova Scotia	56	58	<i>t</i> , <i>c</i>
New Brunswick	56	58	+ 2
Quebec	838	835	- 3
Ontario	947	960	4 13
Mani toba	120	115	- 5
Saskatchewan	101	111	/ 10
Alberta	120	128	4 S
British Columbia and Yukon	199	209	<u> </u>
Totals for CANADA	2,443	2,482	<u>+ 39</u>

Comparative Statistics

Comparative statistics of the industry are shown by principal items in the following summary table for the calendar years 1927 and 1928 for the Dominion and the provinces. The number of establishments reporting for the whole of Canada increased by 1.59 per cent, capital investment by 9.41 per cent, the number of persons employed by 14.29 per cent, salaries and wages paid by nearly 5.01 per cent, the cost of materials by 1.04 per cent, and the value of products by 3.63 per cent. All provinces with the exception of Quebec end Ontario reported increases in all items included in the table while the above named provinces show decreases in respect of one or more of the items.

Frincipal Statistics of the Baking Industry in Canada, by Provinces, 1927 and 1928.

Provinces	Estab- lish- ments Report.	Capital Invested	Employ- ees	Salaries and Wages	Cost of Materials	Value of Products
1927 CAMADA P. E. Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatohewan Alberta Br. Columbia & Yukon	No. 2,443 6 56 56 838 947 120 101 120 199	\$ 40,559,259 60,935 369,848 545,499 12,498,864 19,036,396 1,943,325 1,276,471 1,830,844 2,977,077	4,258 6,882 799 407	237,284 4,498,791 7,962,239 581,393	\$ 35,779,690 71,784 702,393 742,500 10,171,046 16,380,622 1,953,961 1,035,212 1,540,726 2,681,446	\$ 68,726,262 135,222 1,330,217 1,318,620 19,310,546 32,745,604 3,809,554 2,052,142 3,181,721 4,842,636
1928 CANADA P. E. Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta Br. Columbia & Yukon	2,482 53 58 835 960 115 111 128 209	44, 377, 449 69, 787 760, 314 773, 011 13, 233, 720 19, 693, 170 1, 991, 588 1, 982, 895 2, 752, 067 3, 120, 796	33 319 358 4,380 7,137 881 543 620	24,576 265,959 300,072 4,559,736 8,120,394 964,678 634,063 704,107	779,246 10,067,733 16,511,330 2,089,775 1,404,589 1,736,721	1,490,780



Size of Establishments

In view of the tendency towards concentration in industrial enterprises a series of tables has been prepared presenting in a threefold way the size of establishments in the Baking industry measured by (a) capital investment, (b) gross value of production and (c) employment, all within certain specified groups or limitations for the calendar years 1927 and 1928. The tables further indicate the movement in capital, production and employment within the industry.

In 1928 the number of establishments reporting was 2,482 with a total capital investment of \$44,377,449, a total gross value of output or production of \$71,227,097, and a total employment of 15,422. Of the total number of establishments seventeen had a capital investment of \$12,969,578 or 29.25 per cent of the total investment and an average investment of \$762,916. In gross value of output fifteen establishments had \$14,870,562 or 20.9 per cent of the total output and an average output per establishment of \$991,371. In employment nineteen plants had 3,621 persons on the payrolls or 22.7 per cent of the total employment and an average employment of 191 per establishment.

In 1927 the number of establishments re-orting was 2,443 with a total capital investment of \$40,559,259, a total gross value of output of \$68,726,262, and a total employment of 14,414. Of the total number of establishments thirteen had a capital investment of \$10,153,262 or 25.0 per cent of the total investment, with an average investment of \$781,020 per establishment. In gross value of production seventeen establishments had a total production of \$18,116,985 or 26.4 per cent of the total output of the industry and an average output per establishment of \$1,065,705. In employment nineteen establishments had a total payroll of 3,513 or 24.4 per cent of the total number employed and an average employment of 185 per establishment.

Size of establishments by groups of Capital investment, Value of Output, and Employment, 1927 and 1928.

Const Line	DECAMON	1927		1	1928	
(a) Groups of Capital	Estab-	1	Average	Estab-	1	Average
Investment	lish-	Capital	Capital	lish-	Capital	Capital
	ments		per estab-	ments	1	per estab-
			lishment			lishment
	No.	\$	\$	No.	\$	\$
Under \$50,000	2,343	17,494,020			20, 558, 487	
\$50,000 to under \$100,000	41	2,865,388			2,198,909	
\$100,000 to under \$200,000	29	3,997,147			3,101,390	
\$200,000 to under \$500,000	17	6,049,442			5, 549, 085	
\$500,000 to under \$1,000,000	9	5,853,038	650,338		10,721,742	
\$1,000,000 and over	1 I	4,300,224	1,075,056		2,247,836	
Total	2.443	40, 559, 259			44.377.449	17,879
		1927			1928	-11012
(b) Groups of Values of	Estab-		Average	Estab-		Average
Output	lish-	Value of	Output per	lish-	Value of	Output per
	ments	Output	estab-	ments	Output	establish-
			lishment			ment
	No.	\$	\$	No.	\$	\$
Under \$50,000	2,240	27,351,892	12,211	2,305	35,167,270	15,257
\$50,000 to under \$100,000	112	7,734,056	69,054		6,309,846	69,339
\$100,000 to under \$200,000	43	6,199,562	144,176	40	5,292,337	132,308
\$200,000 to under \$500,000	31	9,323,767	300,767	31	8,784,525	283, 372
\$500,000 to under \$1,000,000	10	7,588,316	758,832	96	6,677,276	741,919
\$1,000,000 and over	7	10, 528, 559	1,504,095	6	8,193,286	
Total	2,443	68,726,262	28,132	2,482	71,227,097	28,698
		1927			1928	
(c) Groups of Employment	Estab-		Average	Estab-		Average
	lish-	Persons	persons	lish-	Persons	persons
	ments	employed	employed	ments	employed	employed
			per estab-			per estab-
			lishment			lishment
	No.	No.	No.	No.	No.	No.
Under 20 persons	2,345	7,766	3.31	2,391	8,836	3.70
20 to: under 50	62	1,956	31.55	51	1,569	30.76
50 to: under 100	17	1,179	69.35	21	1,396	66.48
100 10to under 200	12	1,670	139.17	12	1,727	143.92
200 to under 500	7	1,843	263.29	7	1,894	270.57
500 and over					-	-
Total	2,443	14,414	5.90	2,482	15,422	6.21

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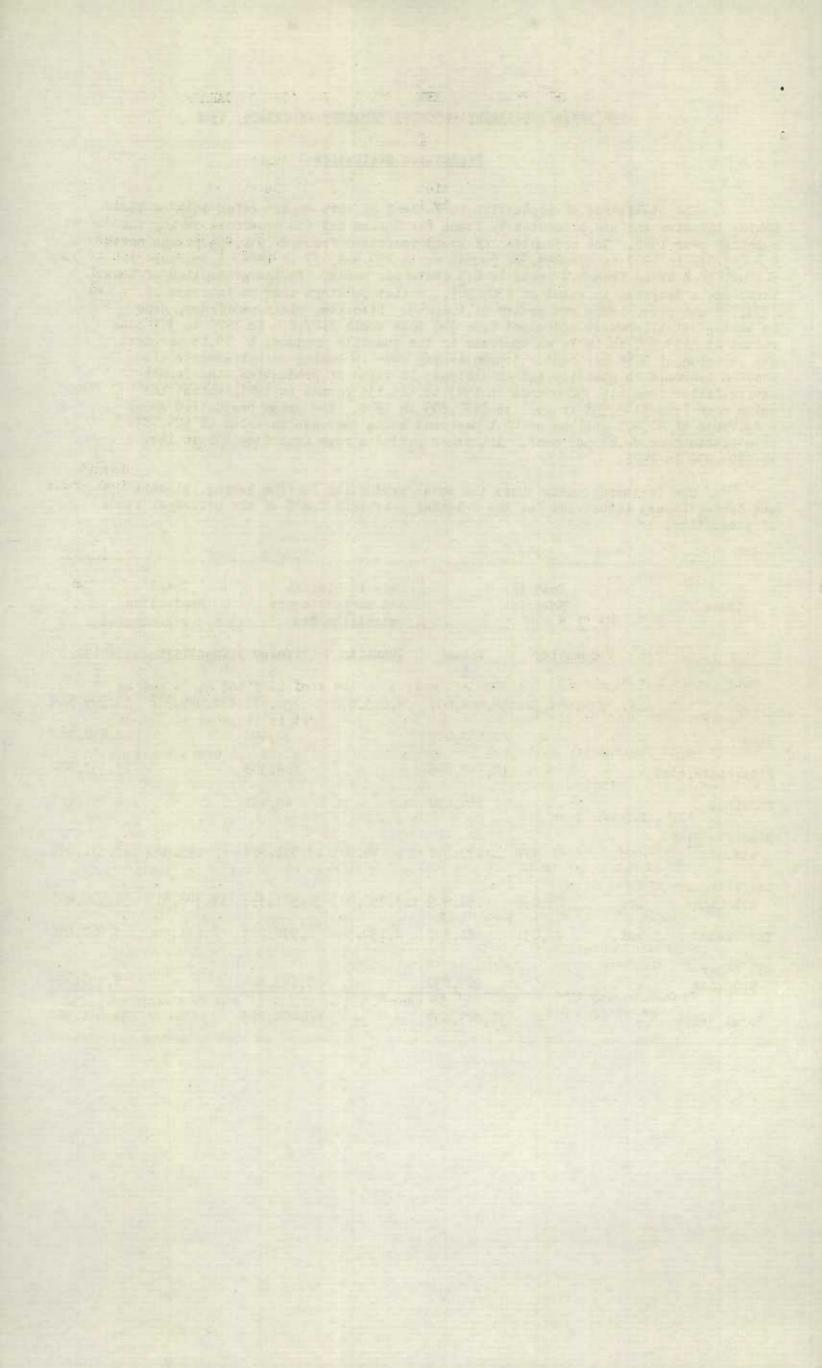
A de la compara e la companya da companya d Na companya da c sisterata - saste (a) Conserved (a) the fourth ibe 750,000 750,000 en selas 51-0,000 8100,000 en selas 520,000 6800,000 en selas 500,000 61,000 en selas 500,000 81,000 en selas 500,000 16161 e 2 -a sublim is a surro (1) ar stri 000.013 TOLID 1999 - 1997 1999 - 1998 1999 - 1998 Barrier Branch . £ . = 1 2 ... 1 5 65

Production Statistics

The statistics of production in Table I of this report refer only to the Taking Industry and are presented by items for Canada and the provinces during the calendar year 1928. The production of bread increased from 780,940,855 pounds worth \$54,043,072 in 1927 to 874,059,302 pounds worth \$54,948,637 in 1928, a decrease in the price of bread from 6.9 cents to 6.3 cents per pound. In the production of buns there was a decrease in value of \$305,969, whilst puddings show an increase of \$233,706 and pies, cakes and pastry \$1,102,245. Biscuits, plain and fancy, made in baking establishments increased from 340 tons worth \$127,256 in 1927 to 377 tons valued at \$139,577 in 1928, an increase in the quantity produced of 10.88 per cent and in value of 9.68 per cent. Confectionery made in baking establishments also shows a decrease in quantity and an increase in value of production, the former having fallen from 615,752 pounds in 1927 to 585,135 pounds in 1927, whilst the value rose from \$143,598 in 1927 to \$182,809 in 1928. Ice cream production shows a decrease of 27,471 gallons or 40.1 per cent and a decrease in value of \$26,783 or a little over 24.65 per cent. All other products rose from \$364,291 in 1927 to \$904,830 in 1928.

The following table shows the total production for the Baking, Biscuit and Confectionery industries for the calendar year 1928 for 8 of the principal items of production.

Items		Made in Bakerie		Made in bi and confec establishm	tionery	To tal Production		
		Quanti ty	Value \$	Quanti ty	Value \$	Quanti ty	Value\$	
Bread	Lb.	874,059,302	54,948,637	4,885,076	356,687	878,949,378	55, 305, 324	
Buns	-	-	2,160,021	-	70,340	-	2,230,361	
Pies, cakes, etc.	-	-	12,542,676		814,348		13,357,024	
Puddings	-		266,690	-	25,421		292,111	
Biscuits plain, etc.	ton	377	139,577	49,003	17,391,482	49,380	17,531,059	
Confectionery, all kinds	Lb.	585,135	182,809	117,757,077	30,921,398	118,342,212	31,104,207	
Ice cream	gal.	41,031	81,857	2,130,554	2,978,723	2,171,585	3,060,580	
All other products	-	_	904,830	-	7,845,824	-	8,750,654	
Total Value	-	-	71,227,097		60,404,223	-	131,631,320	



Production Statistics - Cont'd.

The per capita consumption of "bakers bread" on an estimated population of 9,658,000 in 1928 was 91.0 pounds as compared with 82.5 pounds in 1927. A table showing the per capita consumption of biscuits, confectionery and ice cream is given in the report on that industry and is here repeated for the calendar years 1926, 1927 and 1928 by quantity and value.

Items		1926		1927		1928	
		Quantity	Value \$	Quanti ty	Value \$	Quanti ty	Value \$
Bi scui ts	Lb.	9.27	1.60	10.94	1.77	10.46	1.84
Confectionery, all kinds	Lb.	11.56	3.02	12.04	3.20	12.64	3.28
Ice cream	gal.	.72	1.00	.78	1.08	.88	1.20

The weight of a loaf of bre > throughout the Dominion is not standardized but is regulated by municipal by-laws in the various provinces, except in Ontario where under R.S.O. ch. 224 the standard weight of the loaf is fixed at 24 and 48 ounces, except that in the case of "small bread" the limit is fixed at 12 ounces. According to information collected by the Bureau of Statistics the average weight of a loaf in the provinces may be stated as follows:

P. E. Island, Nova Scotia and New Brunswick at 12 pounds or 24 oz.

Quebec, in certain municipalities at l_2^1 pounds or 24 ounces, while in the remaining parts of the province it is variously stated at 4, 5 and 6 pounds.

Ontario at 24 and 48 ounces except in the case of "small bread".

Manitoba generally at 16 and 20 ounces except in outlying portions of the province where it is stated at 3 pounds.

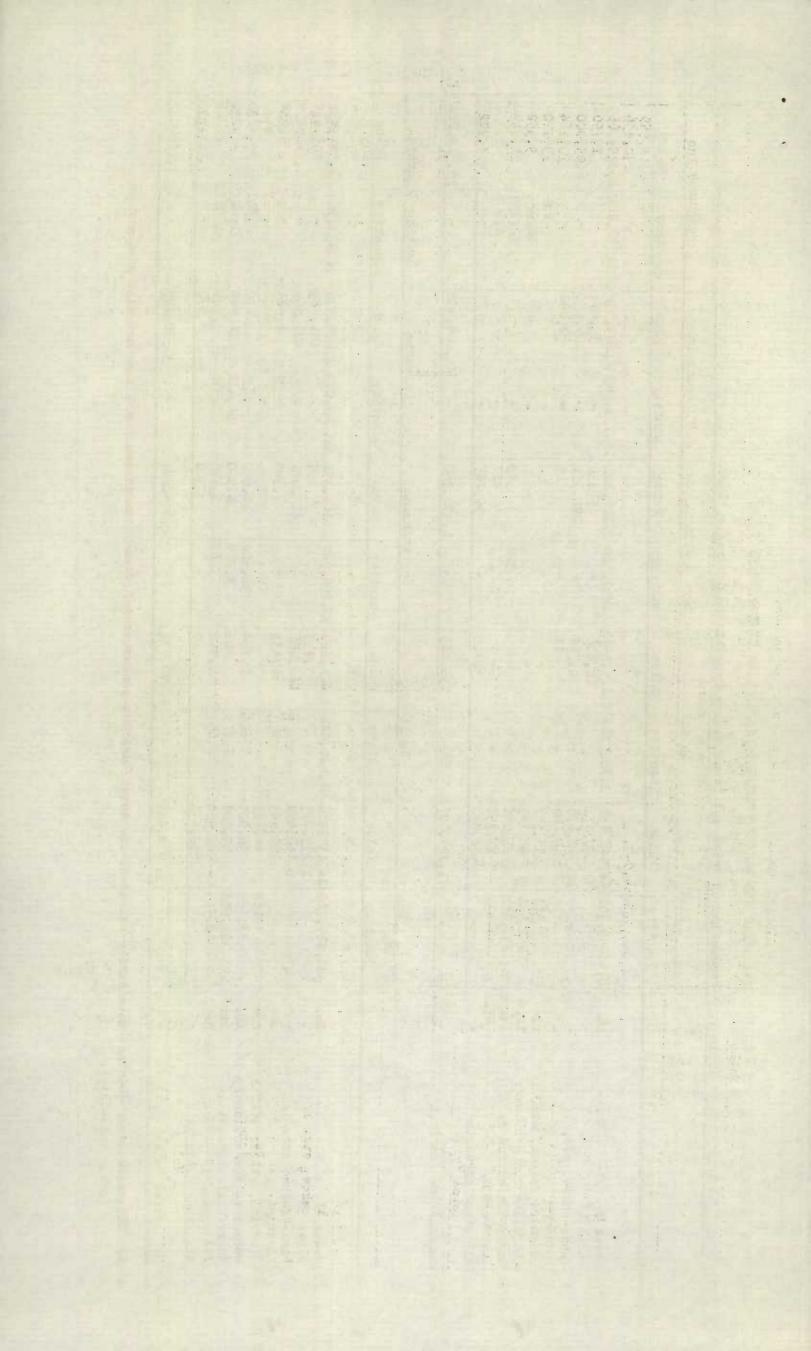
Saskatchewan, Alberta and British Columbia report 16, 18 and 20 ounces as the average weight of the loaf which is regulated by municipal by-laws. The second second second second of the second second

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		1		Prince Ed							
		CANA	DA	Island		Nova Scot	ia	New Brun	swick	Queb	ec
		ja nagio nagi milia nga nga nga nga nga nga nga nga nga ng					1				an ann an Arrange an Arrange ann a' bha ann an Arrange ann an Arrange
		quantity	Value	Juantity	Value	quantity	Value	Juantity	Value	quantity	Value
					ý		i ja				4
									1		
Bread 1/	16.	874,059,302	54 948 637	1,722,284	125,297	16.510.386	1.118.202	15.781.665	1.103.736	281,792,781	16.294.959
Buns 1/	-		2,160,021		18.408		29,336		33,646		230,456
Pies, cakes, etc. 1/	-		12,542,676		8,764	_	292,551	-	269,576	-	2,835,066
Fuddings 1/			266,690		14		14	_	2,000		1,750
	+ 0.10	377	139,577		-		-		_,000	235	95,000
Biscuits, plain, etc. 1/	ton		61,743						_	20,923	10,264
Shocolate confectionery 1/	1b.	152,534				300	45			42,954	15,120
Sugar confectionery 1/	10.	432,601				175	427			4,908	9,352
Ice Gream 1/	gal.	41,031		-	2 500					4,700	
All other products	-	-	904,830		3,700	-	50,205				22,255
					251 202		1 100 100		1 400 050		10 514 000
Total Value		-	71,227,097		156,183		1,490,780		1,408,958		19,514,222
		Onte	ario	Manito	ba	Saskat	tchewan	Alt	oerta	British Co	lumbia
											State Brick of Scheroscond Sciences
		Quantitur									
and and a second s			Value	Quantity	Value	Juantity	Value	Quantity	Value	Quantity	Value
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
		Quantity	Value V	Quantity	Value	Quantity	Value	Quantity	Value V	Quantity	which of specific a production straining
Bread 1/	lb.		Ŷ	and an and the second	Ŷ				Ŷ		Ŷ
Bread 1/	16.		ç 24,137,778	57,640,841	¥ 3,421,815	33,796,989	2,281,391		• 2,879,508	54,535,764	¥ 3,585,951
Buns 1/	1b.		¢ 24,137,778 1,273,793	57,640,841	¥ 3,421,815 129,435	33,796,989	2,281,391 95,107		2,879,508 144,783	54,535,764	
Buns 1/ Fies, cakes, etc. 1/	1b.		24,137,778 1,273,793 6,448,499	57,640,841	<pre> 421,815 129,435 462,081 </pre>	33,796,989	2,281,391 95,107 413,071		2,879,508 144,783 472,869	54,535,764	3,585,951 205,057 1,340,199
Buns 1/ Fies, cakes, etc. 1/ Puddings 1/	-	370,929,519	24,137,778 1,273,793 6,448,499 199,363	57,640,841	3,421,815 129,435 462,081 51,633	33,796,989	2,281,391 95,107		2,879,508 144,783	54,535,764 _	
Suns 1/ Fies, cakes, etc. 1/ Puddings 1/ Biscuits, plain, etc. 1/	- - ton	370,929,519	24,137,778 1,273,793 6,448,499 199,363 44,577	57,640,841	3,421,815 129,435 462,081 51,633	33,796,989	2,281,391 95,107 413,071 1,318	41,349,073	<pre> 2,879,508 144,783 472,869 1,484 -</pre>	54,535,764 - - -	
Suns 1/ Fies, cakes, etc. 1/ Puddings 1/ Biscuits, plain, etc. 1/ Chocolate confectionery 1/	- ton lb.	370,929,519 - - 142 88,451	24,137,778 1,273,793 6,448,499 199,363 44,577 36,625	57,640,841	<pre>3,421,815 129,435 462,081 51,633 - 2,764</pre>	33,796,989	2,281,391 95,107 413,071 1,318 11,650	41,349,073	<pre> 2,879,508 144,783 472,869 1,484 - 220 </pre>	54,535,764 - - 500	
Suns 1/ Fies, cakes, etc. 1/ Puddings 1/ Biscuits, plain, etc. 1/ Chocolate confectionery 1/ Sugar confectionery 1/	- - lb. lb.	370,929,519 - - 142 88,451 323,995	24,137,778 1,273,793 6,448,499 199,363 44,577 36,625 85,407	57,640,841 - - 5,625 2,415	3,421,815 129,435 462,081 51,633 2,764 805	33,796,989 - - 36,300 5,200	2,281,391 95,107 413,071 1,318 11,650 1,950	41,349,073 - - - 735 56,112	2,879,508 144,783 472,869 1,484 - 220 16,969	54,535,764 - - - 500 1,625	
Buns 1/ Fies, cakes, etc. 1/ Puddings 1/ Biscuits, plain, etc. 1/ Chocolate confectionery 1/ Sugar confectionery 1/ Ice Gream 1/	- ton lb.	370,929,519 - - 142 88,451	24,137,778 1,273,793 6,448,499 199,363 44,577 36,625 85,407 61,926	57,640,841 - - 5,625 2,415	<pre> 3,421,815 129,435 462,081 51,633 2,764 805 2,448</pre>	33,796,989 - - 36,300 5,200 1,085	2,281,391 95,107 413,071 1,318 11,650 1,950 1,490	41,349,073	2,879,508 144,783 472,869 1,484 - 220 16,969 3,986	54,535,764 - - 500 1,625 1,317	
Suns 1/ Fies, cakes, etc. 1/ Puddings 1/ Biscuits, plain, etc. 1/ Chocolate confectionery 1/ Sugar confectionery 1/	- - lb. lb.	370,929,519 - - 142 88,451 323,995	24,137,778 1,273,793 6,448,499 199,363 44,577 36,625 85,407	57,640,841 - - 5,625 2,415	3,421,815 129,435 462,081 51,633 2,764 805	33,796,989 - - 36,300 5,200 1,085	2,281,391 95,107 413,071 1,318 11,650 1,950	41,349,073 - - - 735 56,112	2,879,508 144,783 472,869 1,484 - 220 16,969	54,535,764 - - 500 1,625 1,317	
Buns 1/ Fies, cakes, etc. 1/ Puddings 1/ Biscuits, plain, etc. 1/ Chocolate confectionery 1/ Sugar confectionery 1/ Ice Gream 1/	- - lb. lb.	370,929,519 	24,137,778 1,273,793 6,448,499 199,363 44,577 36,625 85,407 61,926	57,640,841 - 5,625 2,415 2,037	<pre> 3,421,815 129,435 462,081 51,633 2,764 805 2,448</pre>	33,796,989 - - 36,300 5,200 1,085	2,281,391 95,107 413,071 1,318 11,650 1,950 1,490	41,349,073 - - 735 56,112 2,550	2,879,508 144,783 472,869 1,484 - 220 16,969 3,986	54,535,764 - - 500 1,625 1,317	

Table 1.- Production of Bread and Other Bakery Products by Provinces, 1928.

1/ Data here given does not necessarily represent the total Canadian production of these commodities since they are also produced in other industries. 4



Capital Invested

Capital invested in the baking industry is shown in Table 2 by items and provinces for the calendar year 1928. A further division shows fixed capital as distinct from working capital. Fixed capital comprising land, buildings, fixtures, machinery and tools totalled \$35,709,872 in 1928 as against \$32,509,770 in 1927, an increase over the preceding year of \$3,200,102 or 9.84 per cent. Working capital made up of materials, supplies and stocks on hand together with cash, trading and operating accounts, etc. totalled \$8,667,577 as against \$8,049,489 the previous year, an increase of \$618,088 or 7.6 per cent.

Apportioned by provinces Ontario leads in invested capital with 44.4 per cent of the total, Quebec being second with 29.8 per cent and the remaining provinces following in the order named: British Columbia 7.03, Alberta 6.2, Manitoba 4.49, Saskatchewan 4.47 and the Maritime Provinces 3.61 per cent.

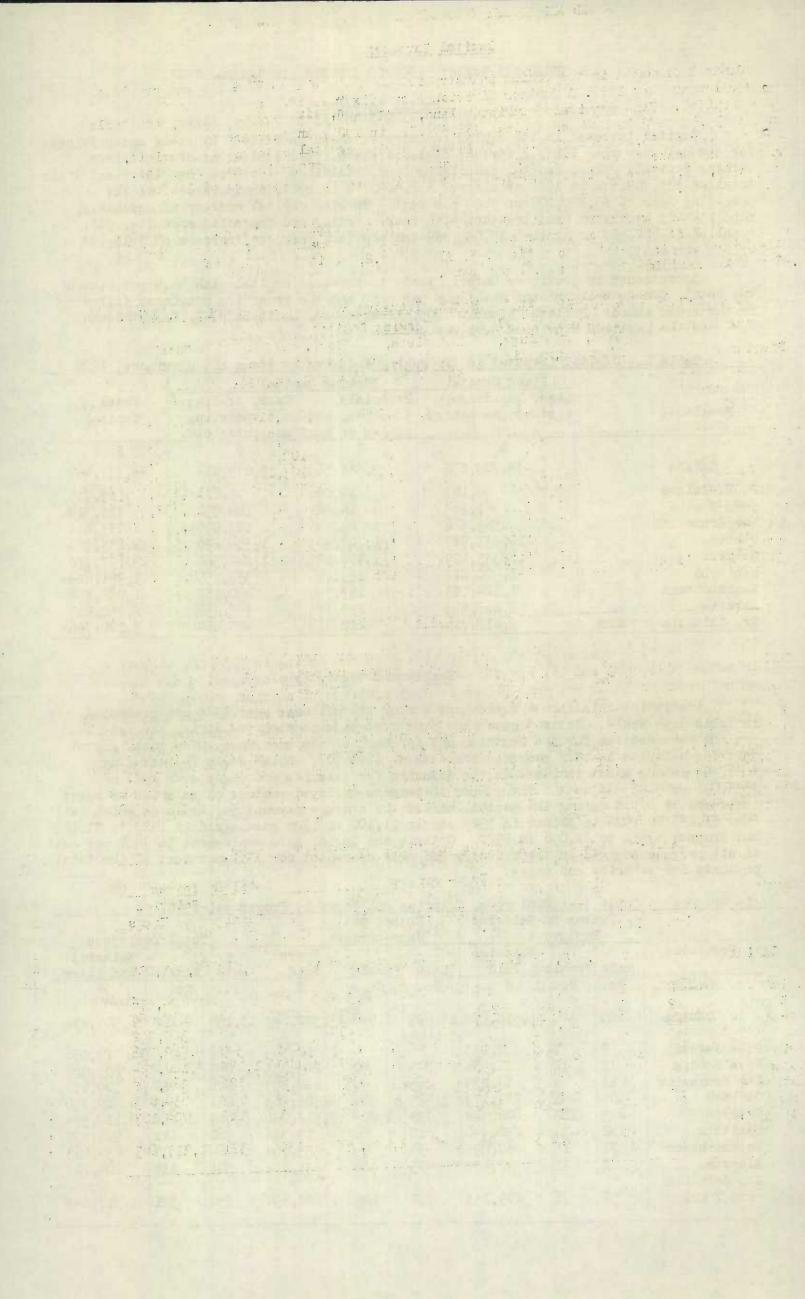
Table 2 Ca	mital :	invested i	n the B.	aking]	Industry	by items	and :	provinces.	1928.	

	Fixed Capital	Working Car	The subscription of the su	make 1
Provinces	Land, buildings, fixtures, machinery		Cash, trading	Total Capital
		stocks on hand		o oprove
	\$	\$	\$	\$
CANADA	35,709,872	3, 588, 563	5,079,014	44, 377, 449
P. E. Island Nova Scotia	50,107 567,864	14,006 89,520	5,674 102,930	69,787 760,314
New Brunswick	565,366	84,546	123,099	773,011
Quebec Ontario	10,731,987 16,383,679	1,107,503 1,460,129	1,394,230 1,849,362	12,233,720 19,693,170
Mani toba Saskatchewan	1,500,817 1,324,783	153,716 167,951	337,155 490,162	1,991,688 1,982,896
Alberta Br. Columbia & Yukon	2,167,553 2,417,716	228,776 282,416	355,738 420,664	2,752,067
Br. Columbia & Tukon	<i>c</i> , +1 /, /10	202,410	420,004 :	3,120,796

Employment Statistics

Statistics relating to employment during the calendar year 1928 are presented in Table 3, 4 and 5. Table 3 gives the number of persons employed during the year by sex and remuneration for the Dominion and for each of the provinces. The total amount paid for salaries in 1928 shows an increase of \$176,507, whilst wages increased by \$656,584 making a net increase in the payments for salaries and wages over 1927 of \$833,091 or 5.42 per cent. The number of persons employed whether on salaries or wages increased by 1,008 during the period, whilst the average payment per employee which fell from \$1,133 in 1924 to \$1,116 in 1925 and to \$1,100 in 1926 rose again in 1927 to \$1,115 but dropped again to \$1,096 in 1928. Ontario and Quebec gave employment to 74.7 per cent of all persons engaged in the industry and also accounted for 75.1 per cent of the total payments for salaries and wages.

Table 3 Employees, Salaries and Wages by Provinces, 1928.										
	Nur	nber of	Salaried	Nun	nber of					
	E	Imployed		Wag	ge-earne	ers	5	Total Employees		
Provinces			Salaries			Wages			Salaries	
	Male	Female	And and a support of the support of	Male	Female	Paid	Male	Female	and Wages	
	No.	No.	\$	No.	No.	\$	No.	No.	\$	
1 - C S 10 - C					-1-					
CANADA	659	322	1,518,595	12,495	1,946	15, 382, 643	13,154	2,268	16,901,238	
P.E. Island	2	1	2,233	26	Ц Ц	22,343	28	5	24,576	
Nova Scotia	12	12	22,934	243		243,035	255	64	265,969	
New Brunswick	11	6	17,239	265	76	282,833	275	82	300,072	
Quebec	106	41	241,173			4,328,563	4,031	349	4,569,736	
Ontario	235	123	602,348		1,005	7,518,046	6,009	1,128	8,120,394	
Manitoba	142	37	250,740	618	84	713,938	760	121	964,678	
Saskatchewan	31	15	80,295		64	1.1001	464	79	634,063	
Alberta	28	11	72,480	473	108	631,627	501	119	704,107	
Br. Columbia										
and Yukon	92	76	229,153	738	245	1,088,490	830	321	1,317,643	
								1		



Employment Statistics - Con.

Table 4 presents statistics of employment by months and by sex for the Dominion in 1928. Employment was fairly constant throughout the year, the maximum being reached in October with a total of 14,508 of whom 12,571 were males and 1,937 females, whilst the minimum employment was attained in February with 11,726 males and 1,797 females or a total of 13,523. The average employment during the year totalled 14,441 of whom 12,495 were males and 1,946 were females.

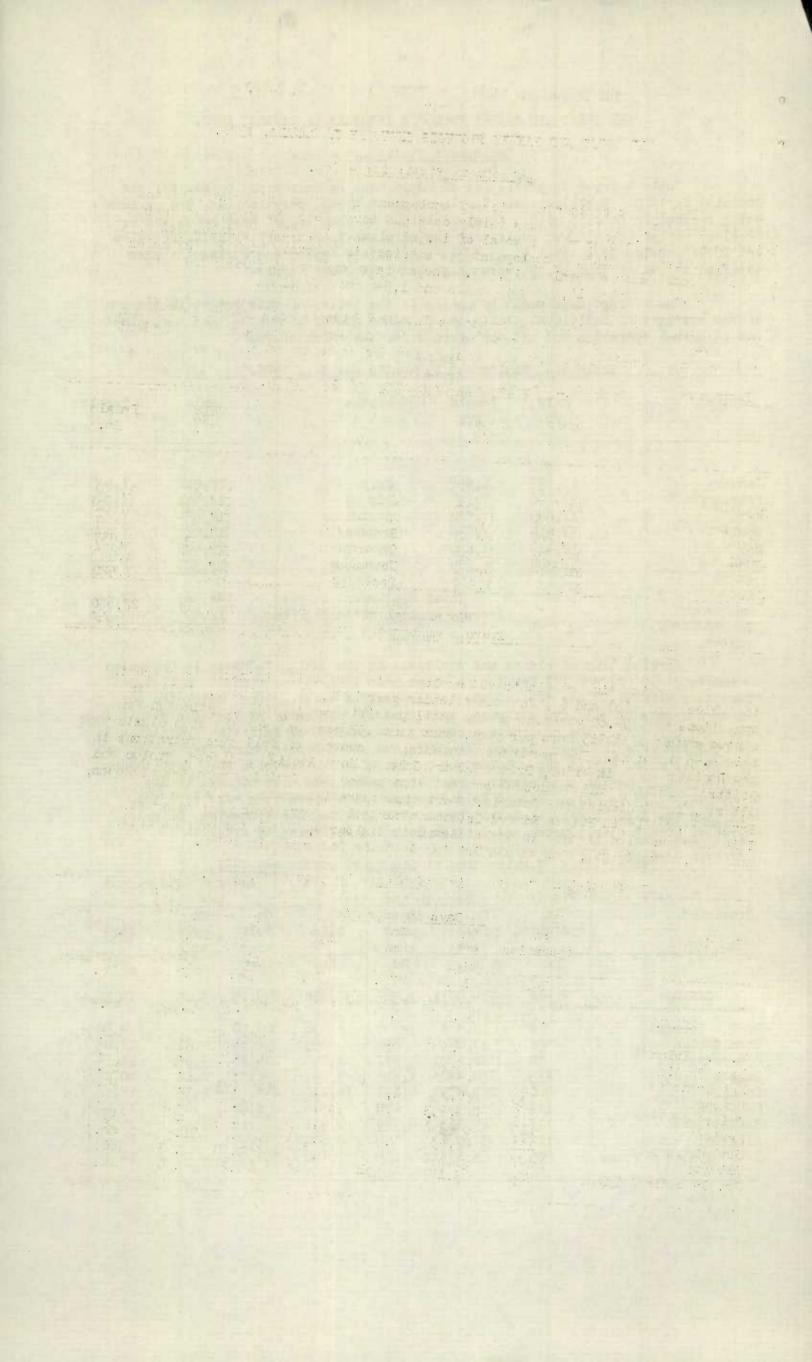
The average employment by months in the tables of this report is the sum of the averages of individual plants based on the number of months that each plant was in actual operation and not the average for the calendar year.

	Lauro T	DTOAHOULD DA	Monorio and Boy, Theo.		
Months	Male No.	Female No.	Months	Male No.	Female No.
January February March April May June	11,797 11,726 11,849 11,914 12,124 12,304	1,792 1,797 1,823 1,838 1,859 1,909	July August September October November December	12,512 12,541 12,554 12,571 12,548 12,523	1,950 1,951 1,947 1,937 1,927 1,920
			employment in year ployment during year	146,963 12,495	22,650

Table 4 .- Employment by Months and Sex. 1928.

Working time of plants and employees in the baking industry is presented in tables 5(a), (b) and (c) for the calendar year 1928, by provinces. Full time operations were 94.60 per cent of the total possible working time, estimated for census purposes at 313 days per year, part time .97 per cent and the time plants were idle 4.43 per cent. The provinces exceeding the avorage of full time operations in the Dominion were in order, Prince Edward Island, Nova Scotia, Manitoba, Quebec and British Columbia, whilst those below the average for the Dominion were Saskatchewan, Alberta, New Brunswick and Ontario. Part time operations were highest in New Brunswick, while in Prince Edward Island no part time operations were reported. Idle time was also highest in Saskatchewan with Alberta, New Brunswick, Ontario, Manitoba, Nova Scotia, Quebec and British Columbia following in order.

Table 5(a) Worki:	ng time o	f plants	by provin	nces, 192	3.	
	Plants	Days	in opera	tion	Average days worked per plant		
Provinces	in operation	On full time	On part time	Idle	On full time	On part time	Idle
	No.	No.	No.	No.	No.	No.	No.
CANADA	2,482	734,907	7,567	34, 392	296.09	3.05	13.86
P. E. Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta Br. Columbia & Yukon	8 58 58 835 960 115 111 128 209	2,468 17,205 16,522 250,442 283,953 34,341 29,433 37,370 63,173	250 577 1,816 2,297 79 2,389 55 104	36 699 1,055 9,097 14,230 1,575 2,921 2,639 2,140	308.50 296.64 284.86 299.93 295.79 298.62 265.16 291.95 302.26	4.31 9.95 2.18 2.39 .69 21.52 .43 .50	4.50 12.05 18.19 10.89 14.82 13.69 26.32 20.62 10.24



Employment Statistics - Con.

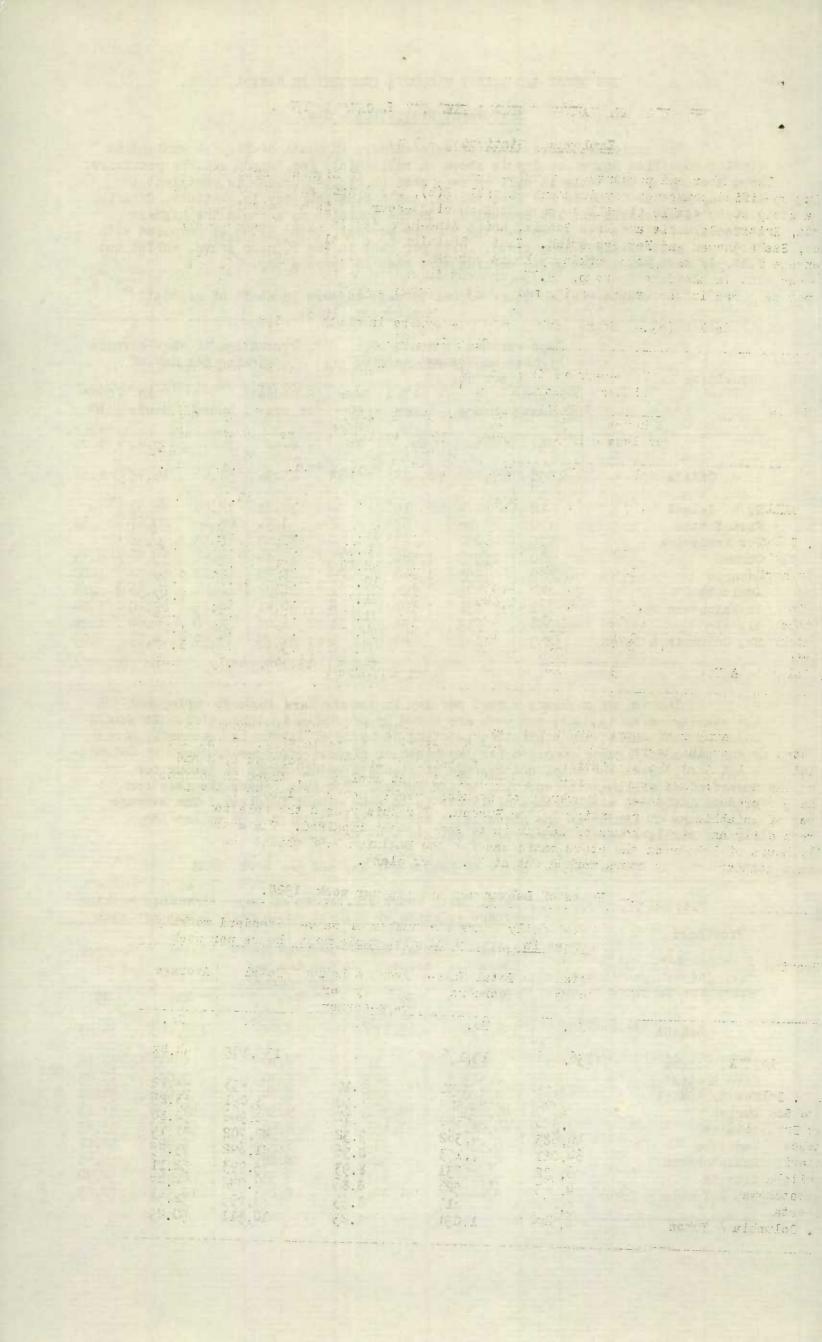
The number and percentage of wage-earners in month of highest employment working specified hours per day is shown in table 5(b), for Canada and the provinces. From a study of the table it will be seen that an eight-hour day is prevalent in Alberta, British Columbia and Nova Scotia, and a nine-hour day in Manitoba, Ontario, Quebec, Saskatchewan and New Brunswick. In the Dominion as a whole the highest percentage falls in the group working 9 hours per day, being 51.46 as compared with 25.94 per cent in the 8 hour group, 19.75 per cent in the 10 hour group, whilst but 2.85 per cent was in the group working more than 10 hours a day.

Provinces	-		n month o nent work of		Percentage of wage-earners working per day of			
	8 hours or less	9 hours	10 hours	Over 10	8 hours or less	9 hours	10 hours	Over 10
				hours				hours
	No.	No.	No.	No.	p.c.	p.c.	p.c.	p.c.
CANADA	3,936	7,809	2,998	433	25.94	51.46	19.75	2.85
P. E. Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta Br. Columbia & Yukon	12 170 125 560 1,529 154 181 346 859	4 86 230 1,959 4,455 471 238 219 147	15 67 25 1,560 1,040 105 101 41 44	- 283 129 1 6 11 1	38.71 52.31 32.89 12.84 21.38 21.07 34.41 56.08 81.73	12.90 26.46 60.53 44.91 62.28 64.44 45.25 35.50 13.99	48.39 20.61 6.58 35.76 14.54 14.36 19.20 6.64 4.19	.62 6.49 1.80 .13 1.14 1.78 .09

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

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(c). 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 8.98 whilst the average standard weekly hours worked out at 54.43 per plant.

Table 5(c)	c) Hours of Labour per day and per week, 1928.					
Provinces	Total daily hours and number of wage- earners in month of highest employment					
	Total hours	Total Wage- earners	Average hours per day per wage-earner	Total	Average	
	No.	No.	No.	No.	No.	
CANADA	136,296	15,176	8.98	135,105	54.43	
P. E. Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta Br. Columbia & Yukon	282 2,825 3,320 40,683 64,081 6,532 4,663 5,264 8,646	31 325 380 4,362 7,153 731 526 617 1,051	9.10 8.70 8.74 9.32 8.96 8.93 8.86 8.53 8.23	433 3,091 2,946 47,702 51,692 5,993 6,042 6,695 10,511	54.12 53.29 50.80 57.13 53.85 52.11 54.43 52.30 50.29	



Fuel Consumption

The quantity and cost value delivered at the factory or works of the classes of fuel consumed by the baking industry in 1928 is shown in table 6. By comparison on the basis of cost, wood was the principal fuel used, being 26.11 per cent of the total, followed in order by artificial and natural gas with 21.04 per cent, coke 19.31 per cent, bituminous coal 10.95 per cent, anthracite coal 9.54 per cent and lignite coal 6.35 per cent. The total cost of all fuel rose from \$1,518,293 in 1927 to \$1,588,646 in 1928 or 4.63 per cent. The total cost of electricity purchased was \$329,201 equivalent to 1.99 cents per k.w.h. for the 16,541,082 kilowatt hours reported.

Table 6 .- Fuel consumed by classes, 1928.

<u>Classes of fuel</u>	Unit of measure	Quantity	Cost value at the factory or works
Coal, bituminous Coal, anthracite Coal, lignite Coke Gasoline Fuel oil Wood Gas, artificial or natural Othor fuel	Short ton """ Imp. gal. """ cord M.c.ft.	19,723 10,956 8,736 27,977 117,891 675,378 78,404 557,716	173,901 151,545 100,782 306,820 33,172 70,246 414,793 334,263 3,124
Total cost of fuel			1,588,646

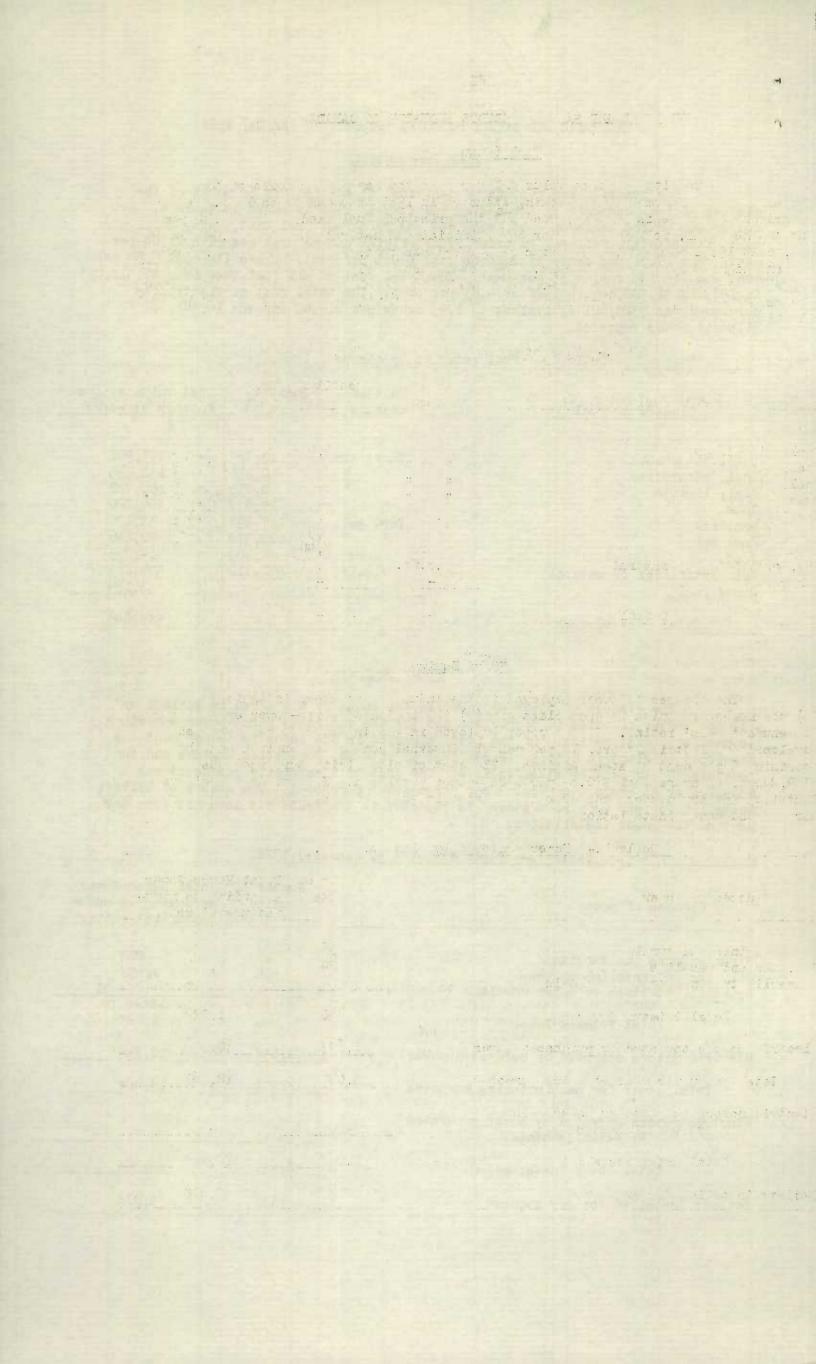
Power Equipment

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The classes of power employed in the industry are shown in table 7 by (a) the number of units in each class and (b) the indicated horse-power according to manufacturers' rating. Of the power employed in the industry 86 per cent was developed by electric motors, 12 per cent by internal combustion engines and the remaining 2 per cent by steam engines. The cost of electricity purchased was \$329,201 or an average of \$30.64 per horse-power purchased. The number of boilers installed for any purpose whatever is reported in the table but does not form any part of the power installation.

Table 7 .- Power employed by classes, 1928.

Classes of power	Number of units	Total Horse-Power according to manu- facturers' rating
Steam engines and turbines Oil, gas and gasoline engines Hydraulic turbines or water wheels	16 424	224 1,498
Iotal Primary Power	14140	1,722
Electric motors operated by purchased power	2,637	10,745
Total power for manufacturing purposes	3,077	12,467
Electric motors operated by power generated by establishments		
Total motor installation	2,637	10,745
Boilers installed for any purpose	137	3,018



Materials Used

The quantity and cost value of all materials used in the baking industry in 1928 is shown in table 8 for the Dominion. The total cost which in 1927 was \$35,779,690 rose in 1928 to \$36,151,747, an increase of \$372,057 or approximately 1 per cent. The single item of flour constituted more than 64.2 per cent of the total cost of all materials used. Yeast, sugar, shortening and eggs each with a cost exceeding a million dollars were next in order. Containers of all kinds and labels cost \$761,083 or about one per cent of the selling value of the products of the entire industry.

Table 8 .- Materials Used by Quantity and Cost Value, 1928.

Classes of materials	Unit of measure	Quanti ty	Cost Value \$
Flour	barrel	3, 305, 743	23,202,746
Hops	pound	26,585	3,968
Malt	11	3,892,161	442,356
Yeast	II	7,416,334	1,839,516
Salt	barrel	40,443	140,948
Sugar	pound	26,044,702	1,623,841
Butter	n	1,239,421	460,800
Cooking oils	11	618,731	88,003
Lard	11	4,256,018	630,022
Shortening	T	11,790,954	1,711,045
Cream	gallon	99,216	216,988
Milk, fresh and skim	Π	413,220	133,974
Milk, condensed	pound	5, 395, 121	358,072
Milk, dried or powdered	17	2,056,408	243, 421
Eggs	dozen	4,125,887	1,367,745
Fruits	pound	6,558,030	885,491
Nuts	n	423, 814	164,001
Glucose	Ħ	276,980	15,359
Chocolate	11	234,791	53, 501
Cocoanut	н	534,152	89,224
Syrups	gallon	63,259	38,541
Extracts, essences, etc. (value only)	-	-	63,934
All other materials (value only)		-	1,617,168
Boxes, cases, tins, labels, etc. (value only)			761,083
Total cost of Materials	-	-	36, 151, 747

Imports and Exports

The imports of manufactured commodities in the baking industry are not of sufficient importance to have a separate import classification but are included in imports under the item "flavoring powders, custard powders, jelly powders, sweetened breads, pies, cakes and puddings". One item only is shown separately that of Passover bread - which in the calendar year 1928 was valued at \$133,408, of which 91.7 per cent came from the United States.

Exports similarly are combined in the export slassification under the head of "biscuits and bread" so that it is not possible to give separate information regarding the export of either commodity,

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