

**CIHM
Microfiche
Series
(Monographs)**

**ICMH
Collection de
microfiches
(monographies)**



Canadian Institute for Historical Microreproductions / Institut canadien de microreproductions historiques

© 1998

Technical and Bibliographic Notes / Notes techniques et bibliographiques

The Institute has attempted to obtain the best original copy available for filming. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change the usual method of filming are checked below.

- Coloured covers / Couverture de couleur
- Covers damaged / Couverture endommagée
- Covers restored and/or laminated / Couverture restaurée et/ou pelliculée
- Cover title missing / Le titre de couverture manque
- Coloured maps / Cartes géographiques en couleur
- Coloured ink (i.e. other than blue or black) / Encre de couleur (i.e. autre que bleue ou noire)
- Coloured plates and/or illustrations / Planches et/ou illustrations en couleur
- Bound with other material / Relié avec d'autres documents
- Only edition available / Seule édition disponible
- Tight binding may cause shadows or distortion along interior margin / La reliure serrée peut causer de l'ombre ou de la distorsion le long de la marge intérieure.
- Blank leaves added during restorations may appear within the text. Whenever possible, these have been omitted from filming / Il se peut que certaines pages blanches ajoutées lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible, ces pages n'ont pas été filmées.
- Additional comments / Commentaires supplémentaires:

L'Institut a microfilmé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-être uniques du point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de filmage sont indiqués ci-dessous.

- Coloured pages / Pages de couleur
- Pages damaged / Pages endommagées
- Pages restored and/or laminated / Pages restaurées et/ou pelliculées
- Pages discoloured, stained or foxed / Pages décolorées, tachetées ou piquées
- Pages detached / Pages détachées
- Showthrough / Transparence
- Quality of print varies / Qualité inégale de l'impression
- Includes supplementary material / Comprend du matériel supplémentaire
- Pages wholly or partially obscured by errata slips, tissues, etc., have been refilmed to ensure the best possible image / Les pages totalement ou partiellement obscurcies par un feuillet d'errata, une pelure, etc., ont été filmées à nouveau de façon à obtenir la meilleure image possible.
- Opposing pages with varying colouration or discolourations are filmed twice to ensure the best possible image / Les pages s'opposant ayant des colorations variables ou des décolorations sont filmées deux fois afin d'obtenir la meilleure image possible.

This item is filmed at the reduction ratio checked below /
Ce document est filmé au taux de réduction indiqué ci-dessous.

10x		14x		18x		22x		26x		30x											
12x		16x		20x		24x		28x		32x											

The copy filmed here has been reproduced thanks to the generosity of:

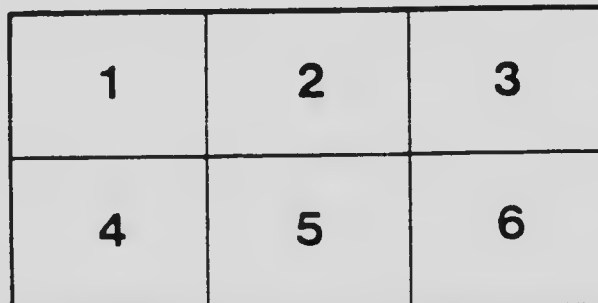
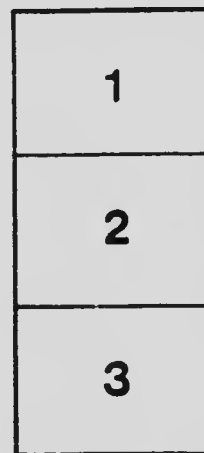
National Library of Canada

The images appearing here are the best quality possible considering the condition and legibility of the original copy and in keeping with the filming contract specifications.

Original copies in printed paper covers are filmed beginning with the front cover and ending on the last page with a printed or illustrated impression, or the back cover when appropriate. All other original copies are filmed beginning on the first page with a printed or illustrated impression, and ending on the last page with a printed or illustrated impression.

The last recorded frame on each microfiche slide all contain the symbol \rightarrow (meaning "CONTINUED"), or the symbol ∇ (meaning "END"), whichever applies.

Maps, plates, charts, etc., may be filmed at different reduction ratios. Those too large to be entirely included in one exposure are filmed beginning in the upper left hand corner, left to right and top to bottom, as many frames as required. The following diagrams illustrate the method:



L'exemplaire filmé fut reproduit grâce à la générosité de:

Bibliothèque nationale du Canada

Les images suivantes ont été reproduites avec le plus grand soin, compte tenu de la condition et de la netteté de l'exemplaire filmé, et en conformité avec les conditions du contrat de filmage.

Les exemplaires originaux dont la couverture en papier est imprimée sont filmés en commençant par le premier plat et en terminant soit par la dernière page qui comporte une empreinte d'impression ou d'illustration, soit par le second plat, selon le cas. Tous les autres exemplaires originaux sont filmés en commençant par la première page qui comporte une empreinte d'impression ou d'illustration et en terminant par la dernière page qui comporte une telle empreinte.

Un des symboles suivants apparaît sur la dernière image de chaque microfiche, selon le cas: le symbole \rightarrow signifie "A SUIVRE", le symbole ∇ signifie "FIN".

Les cartes, planches, tableaux, etc., peuvent être filmés à des taux de réduction différents. Lorsque le document est trop grand pour être reproduit en un seul cliché, il est filmé à partir de l'angle supérieur gauche, de gauche à droite, et de haut en bas, en prenant le nombre d'images nécessaire. Les diagrammes suivants illustrent la méthode.

1870
1871
1872
1873
1874
1875
1876
1877
1878
1879
1880
1881
1882
1883
1884
1885
1886
1887
1888
1889
1890
1891
1892
1893
1894
1895
1896
1897
1898
1899
1900

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

BULLETIN No. 238

BUTTER.

7

1871
1872
1873
1874
1875
1876
1877
1878
1879
1880
1881
1882
1883
1884
1885
1886
1887
1888
1889
1890
1891
1892
1893
1894
1895
1896
1897
1898
1899
1900
1901
1902
1903
1904
1905
1906
1907
1908
1909
1910
1911
1912
1913
1914
1915
1916
1917
1918
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943
1944
1945
1946
1947
1948
1949
1950
1951
1952
1953
1954
1955
1956
1957
1958
1959
1960
1961
1962
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973
1974
1975
1976
1977
1978
1979
1980
1981
1982
1983
1984
1985
1986
1987
1988
1989
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT

OTTAWA, CANADA.

BULLETIN No. 238

BUTTER

OTTAWA, May 14, 1912.

WM. HIMSWORTH, Esq.,
Assistant Deputy Minister of Inland Revenue.

SIR,—I beg to report upon a collection of 157 samples of butter purchased by our inspectors during February and March of this year.

An official standard for butter is established by an Order-in-Council of November 3, 1910, as follows:—

(G. 934).

Butter is a solid product made by gathering in any manner the fat of fresh or ripened milk, and has a Reichert-Meissl number not less than 24 and a saponification value not less than 0.905 (40°C) .

Butter is a clean non-rancid product made by gathering in any manner the fat of fresh or ripened milk or cream into a mass, which also contains a small portion of the other milk constituents, with or without salt, and contains not less than 82.5 per cent milk fat and not more than 16 per cent of water. Butter may also contain added colouring matter of harmless character.

The value of butter inheres in the amount and the quality of the fat contained in it. Legal butter must not contain more than 17.5 per cent of other substances than milk fat. These substances are essentially water, salt and curd. It is evident that by increasing the water content of butter, the purchaser may be defrauded, and for this reason a specific maximum for water is fixed by law. This maximum (16 per cent) is evidently much higher than necessary, and the following synopsis of water content actually found in the 157 samples now reported is instructive:—

Less than 1 per cent water in 5 samples.			
"	2	"	6
"	10	"	112
Above	10	"	33
"	16	"	1
		—	
	Total	.....	157

It is by the introduction of water, rather than by an excess of salt, that the producer can increase the weight of his product, since modern taste objects to the presence of more than 3 or 4 per cent of salt. This is seen in the following resume of the present collection :—

Salt below 1 per cent in 7 samples.	
" from 1 to 2 "	50 "
" " 2 to 3 "	51 "
" " 3 to 4 "	28 "
" " 4 to 5 "	13 "
" " 5 to 6 "	5 "
" " 6 to 7 "	2 "
" above 7 "	1 "
Total.	157 "

Where a butter contains 3 per cent of salt, it is evident that not more than 14·5 per cent of water can be present, if the butter is legal butter; that is if it contains 82·5 per cent of milk fat, as required by law. It would appear from the above record of water content, that this allowance is ample; and indeed the best butters contain much less than 14·5 per cent of water.

The following statement is instructive as showing that the best butter making provinces furnish a butter with comparatively low water content.

10 samples of butter from Nova Scotia, average 8·38 per cent water.	
10 " " Pr. Ed. Island "	3·93 "
10 " " New Brunswick "	5·66 "
10 " " Quebec "	6·34 "
10 " " St. Hyacinthe "	7·82 "
10 " " Montreal "	8·23 "
10 " " Ottawa "	5·13 "
10 " " Kingston "	6·70 "
8 " " Toronto "	6·14 "
9 " " London "	6·14 "
10 " " Windsor "	6·40 "
10 " " Manitoba "	11·01 "
10 " " Calgary "	11·36 "
10 " " Nelson "	7·66 "
10 " " Vancouver "	8·25 "
10 " " Victoria "	9·73 "

This showing becomes more emphatic when considered in relation to the average price of butter in the different provinces.

Province.	Number Samples.	Average Price.	Average Water Content.
		cts.	
Nova Scotia.....	10	30·7	8·38
Prince Edward Island.....	10	29·5	3·93
New Brunswick.....	10	32·4	5·66
Quebec.....	30	37·1	7·46
Ontario.....	47	35·3	6·09
Manitoba.....	10	42·5	11·01
Alberta.....	10	44·0	11·36
British Columbia.....	30	41·2	8·55

It appears from the above, that the price of butter of good quality, varies from 29·5 cents per pound in Prince Edward Island, where it is cheapest, to 44·0 cents per pound in Alberta, where the ruling price is highest. But if we consider the cost of the essential component of butter, namely the milk fat, the difference in price at these two extremes is much greater. Alberta butter averages 2·35 per cent of salt; Prince Edward butter averages 3·01 per cent. So that while 29·5 cents pays for 93·06 per cent butter fat in Prince Edward Island, 44·0 cents pays for only 86·29 per cent butter fat in Alberta. While the nominal difference in price per pound is expressed by the ratio 1 to 1·49 the real difference in cost for the butter fat is 1 to 1·608.

Judging not alone by the present examination, but as the result of analyses recorded in Bulletins No. 219 (211 samples), No. 170 (295 samples), No. 131 (101 samples), &c., I am convinced that the legal maximum of 16 per cent for water in butter is unnecessarily large; and permits of the placing on the market of butter varying too greatly in actual value, to the disadvantage of the consumer and of the butter maker who is careful to avoid the retention of unnecessarily large amounts of water in his product.

The following tabulation of fat content gives more direct information regarding the milk-fat values of these butters:—

Below 82.5 per cent fat (legal minimum)	4 samples.
82.5 to 85 per cent.	13 "
85 to 86 "	6 "
86 to 87 "	12 "
87 to 88 "	12 "
88 to 89 "	12 "
89 to 90 "	15 "
90 to 91 "	11 "
91 to 92 "	29 "
92 to 93 "	15 "
93 to 94 "	6 "
94 to 95 "	7 "
95 to 96 "	9 "
96 to 97 "	3 "
Above 97 "	3 "
Total	157 "

Four samples are adulterated, as having less than the legal minimum fat.

The fat is found to be genuine milk fat in every case. In one or two samples it exhibits somewhat exceptional character, but not such as to justify any suspicion of being of foreign origin.

Boric acid is present in ten (10) samples. This does not constitute legal adulteration, under present regulations. The question of allowing preservatives in butter is under investigation. British law permits boric acid up to one tenth of one per cent.

I beg to recommend the publication of this report as Bulletin No. 238.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

BULLETIN No. 238—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cwt.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1912.							
Feb. 23	Table Butter....	47041	Yercas, Kentville, N.S.	1 lb.	25	Unknown	Unknown
" 26	"	47042	J. E. Sanford, Halifax, N.S.	1 "	35	Acadia Creamery Co., Kingston, N.S.	Mfrs
" 28	"	47043	Ziwick & Co., Lunenburg, N.S.	1 "	26	Unknown	J. F. Turner, Northfield, N.S.
" 29	"	47044	J. S. Berringer, Lunenburg, N.S.	1 "	25	"	R. Brahm, Blockhouse, N.S.
" 29	"	47045	I. G. Oxner, Lunenburg, N.S.	1 "	25	"	H. A. Mader, Barrs Corner, N.S.
Mar. 4	"	47046	Smith & Proctor, Halifax, N.S.	1 "	36	Crapaud Creamery Co., Crapaud, P.E.I.	Mfrs
" 4	"	47047	Rooney & Lovett, Halifax, N.S.	1 "	35	Lawrencetown Creamery Co., Lawrencetown, N.S.	"
" 4	"	47048	P. T. Shea, Halifax, N.S.	1 "	35	Basin River Mfg. Co., Basin River, N.S.	"
" 5	"	47049	Truro Market Ltd., Truro, N.S.	1 "	30	Geo. Chaplin, Middle Stewackie, N.S.	"
" 6	"	47050	S. Thomson, Dartmouth, N.S.	1 "	35	Unknown	Bank & Williams, Halifax, N.S.
DISTRICT OF PRINCE EDWARD ISLAND—							
Feb. 19	Table Butter....	46146	Beer & Goff, Charlottetown, P.E.I.	1 lb.	34	Dunstaffnage Butter Co., Dunstaffnage, P.E.I.	
" 15	"	46147	Brace & McKay Co., Ltd., Summerside, P.E.I.	1 "	25	F. Treholm, Muddy Creek, P.E.I.	
" 15	"	46148	"	1 "	30	Central Creamery Lot 16, P.E.I.	
" 16	"	46149	R. T. Holman, Ltd., Summerside, P.E.I.	1 "	30	Co-operative Central Creamery, Summerside, P.E.I.	
" 16	"	46150	Sinclair & Stewart, Summerside, P.E.I.	1 "	25	Unknown	
" 19	"	46151	Sanderson & Co., Charlotown, P.E.I.	1 "	27	"	Sinclair & Stewart, Summerside, P.E.I.
" 21	"	46152	Sterns Bros., Souris, P.E.I.	1 "	30	"	
" 21	"	46153	Mathew & McLean, Ltd., Souris, P.E.I.	1 "	32	Lakeville Dairying Co., Kings Co., P.E.I.	
" 21	"	46154	J. J. Hughes & Co., Souris, P.E.I.	1 "	30	Unknown	
" 21	"	46155	Sterns Son & Co., Souris, P.E.I.	1 "	32	East Point Dairying Ass'n, Kings Co., P.E.I.	

TABLE BUTTER.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water	Salt.	Butyric-acid fractionator reading at 40°C.	Dry saltless Butter.	Free acid.		
R. J. WAUGH, INSPECTOR.							
	p. c.	p. c.		p. c.			
Local Farmer's Butter...	9.82	2.50	41.1	87.70	None.	47041	Genuine.
Dairy.....	9.16	4.54	42.1	86.30	"	47042	"
.....	8.04	4.80	43.1	87.16	"	47043	"
.....	8.32	5.00	43.2	85.78	"	47044	"
.....	5.74	2.96	42.6	91.30	"	47045	"
.....	7.68	1.84	42.3	90.48	"	47046	"
.....	9.04	3.74	42.5	87.22	"	47047	"
.....	8.68	2.14	42.6	89.18	"	47048	"
.....	7.82	2.94	42.1	89.24	"	47049	"
Dairy.....	9.54	4.20	41.8	86.26	"	47050	"
WM. A. WEEKS, INSPECTOR.							
.....	2.82	1.60	42.0	95.58	None.	46146	Genuine.
.....	5.24	2.60	43.7	92.16	"	46147	"
.....	6.60	0.70	42.8	92.70	"	46148	"
.....	0.60	3.26	42.8	96.14	"	46149	"
.....	7.80	4.26	42.4	87.94	"	46150	"
Tub Butter.....	0.60	1.80	43.0	97.60	"	46151	"
.....	3.82	5.80	41.6	90.40	"	46152	"
.....	1.44	3.60	42.8	94.96	"	46153	"
.....	3.24	5.34	43.4	91.42	"	46154	"
.....	7.18	1.10	42.8	91.72	"	46155	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	COST.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NEW BRUNSWICK—

1912.							
Feb.	7	Table Butter....	45591 M. E. Grass, St. John, N.B.	1 lb.	37	Standard Creamery, St. John, N.B.	
"	7	"	45592 W. Fenwick, St. John, N.B.	1 "	32	Thos. A. Goggin, Albert Co., N.B.	
"	15	"	45593 Harry G. McBeath, St. John, N.B.	1 "	36	Maritime Dairy Co., Sussex, N.B.	
"	15	"	45594 H. S. Francis, St. John, N.B.	1 "	34	Jno. E. McAuley, Lower Mill Stream, Kings Co., N.B.	
"	27	"	45595 Jos. W. Robinson, St. Stephen, N.B.	1 "	30	T. L. Boyd, St. David's Parish, Charlotte Co., N.B.	
Mar.	5	"	45596 M. E. Doohan, ericton, N.B.	1 "	30	Unknown	
"	6	"	45597 C. B. Snow, Woodstock, N.B.	1 "	28		Philip Isaacson, Woodstock, N.B.
"	8	"	45598 J. W. McPhail, Perth, N.B.	1 "	30	Unknown	Unknown
"	12	"	45599 Sussex Mercantile Co., Ltd., Sussex, N.B.	1 "	37	Maritime Dairy Co., Ltd., Sussex, N.B.	
"	13	"	45600 Mrs. P. White, Moncton, N.B.	1 "	30		David Steeves, Moncton, N.B.

DISTRICT OF QUEBEC—

Feb.	6	Table Butter....	37348 Arthur Riufret, 414 Rue St. Joseph, Quebec.	1 lb.	36	Unknown	Dom. Fish Co..
"	7	"	37349 Arthur Drolet, 714 Rue St. Valier, Quebec.	1 "	35	Beurrerie Encienne, Lorrette.	Mfr.....
"	7	"	37350 " " "	1 "	35	Unknown	Charle Damrais, St. Roch des Auln's.
"	8	"	37351 O. Lacroix, 19 Rue St. Joseph, Quebec.	1 "	35	"	P. A. Caron, Village des Auln's.
"	8	"	37352 " " "	1 "	35	"	"
"	8	"	37353 " " "	1 "	32	"	Emond & Cote..
"	9	"	37354 Hamel & Bedard, 728 Rue St. Valier, Quebec.	1 "	35	Beurrerie St. Augustin.	Mfr.....
"	12	"	37355 Cantin & Frere, 291 Rue St. Joseph, Quebec.	1 "	35	Unknown	J. B. Renaud & Cie.
"	12	"	37356 " " "	1 "	35	"	Unknown
"	12	"	37357 " " "	1 "	35	"	"

TABLE BUTTER.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.					No. of Sample.	Remarks and opinion of the Chief Analyst.
	Water.	Salt.	Butyro-refractometer reading at 40° C.	Dry Saltless Butter.	Iodic acid.		

J. C. FERGUSON, INSPECTOR.

	p. c.	p. c.		p. c.			
Creamery.....	6.42	1.94	41.8	91.64	None...	45591	Genuine.
Country prints.....	1.88	1.26	41.3	96.86	" ..	45592	"
.....	6.34	1.46	43.3	92.20	" ...	45593	"
Dairy	7.08	1.50	43.0	91.42	" ...	45594	"
.....	6.70	2.08	42.5	91.22	" ...	45595	"
Country prints.....	5.58	4.00	42.1	90.42	" ...	45596	"
.....	8.96	6.46	44.0	81.64	" ...	45597	"
.....	2.78	1.66	43.2	95.56	" ...	45598	"
.....	4.66	2.74	43.0	92.60	" ...	45599	"
Country prints.....	6.24	4.10	41.7	89.66	" ...	45600	"

F. X. W. E. BELAND, INSPECTOR.

.....	8.86	2.80	44.0	88.44	None...	37348	Genuine.
.....	5.80	4.00	43.8	90.20	" ...	37349	"
.....	9.88	2.00	43.3	88.12	" ...	37350	"
.....	9.56	1.80	42.6	88.64	" ...	37351	"
.....	5.64	2.20	43.0	92.16	" ...	37352	"
.....	8.86	6.86	43.8	84.28	" ...	37353	"
.....	4.64	3.80	43.9	91.56	" ...	37354	"
.....	7.94	2.08	44.1	89.98	" ...	37355	"
.....	1.44	4.26	43.0	94.30	" ...	37356	"
.....	0.76	2.04	41.9	97.20	" ...	37357	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ST. HYACINTHE—

1911.							
Feb. 19	Table Butter...	39012	R. Bernard, Farn- ham.	1 lb.	38	Unknown.....	
" 20	"	39013	H. Huot, St. Jean...	1 "	38	Gunn's Creamery...	Gunn, Langlois & Co., Montreal.
" 20	"	39014	F. Giroux, St. Jean...	1 "	40	Morin Bros., Sabervais.	
" 21	"	39015	F. X. Gagnon, Ma- gor.	1 "	40		Mathews, Ltd., Montreal.
" 22	"	39016	A. Baillargeon, Sher- brooke.	1 "	35		C. McLenzie, Sherbrooke.
Mar. 6	"	39017	Hubert & Jobin, Waterloo.	1 "	33	H. True, Frost Vill- age.	
" 6	"	39018	E. A. Westover, Knowlton.	1 "	38	Mr. Dussault, Kn- owlton.	
" 12	"	39019	S. Dufault, Sorel....	1 "	38	Gunn's Creamery...	Gunn, Langlois & Co., Montreal.
" 19	"	39020	F. Baril, Warwick...	1 "	35	Jos. Birrette, War- wick.	
" 25	"	39021	Alb. Brodeur, St. Hyacinthe.	1 "	40	A. Casavanet, St. Dominique.	

DISTRICT OF MONTREAL—

Feb. 20	Table Butter....	40801	G. H. Falle, St. Ant- oine Market, Mon- treal.	1 lb.	37	Eastern Township Creamery.	
" 20	"	40802	A. Benoit, St. Antoine Market, Montreal.	1 "	35		
" 20	"	40803	"	1 "	37		Gunn, Langlois & Co., Ltd.
" 20	"	40804	J. R. Lefebvre, 246 St. Antoine St., Montreal.	1 "	37		
" 20	"	40805	E. E. Wallace, 100 Stanley St., Mon- treal.	1 "	38		
" 20	"	40806	Willisson Bros., 201 Prince Arthur West, Montreal.	1 "	40	Wm. Carson, Spring- dale Creamery.	
" 20	"	40807	S. L. Mathawson & Son, 18 Ontario st. East, Montreal.	1 "	40		E. E. Wallace..
" 20	"	40808	L. Beauvais, 206 De- montigny, st. West, Montreal.	1 "	38		Gunn, Langlois & Co., Ltd.
" 20	"	40809	L. Frankel, 80 De- montigny st., West, Montreal.	1 "	40		
" 20	"	40810	"	1 "	38		

TABLE BUTTER.

Inspector's Report (Is not an expression of opinion.)	RESULTS OF ANALYSIS.					Nc. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Salt.	Butyro-re- fractometer reading at 40°C.	Dry Saltless Butter.	Boitic acid.		

J. C. ROULEAU, INSPECTOR.

	p. c.	p. c.		p. c.			
.....	9.78	3.64	41.9	86.62	None...	39012	Genuine.
.....	4.72	2.06	43.4	93.22	" ...	39013	"
.....	5.44	2.72	42.5	91.84	" ...	39014	"
.....	5.36	0.94	43.9	93.70	" ...	39015	"
.....	7.70	4.56	44.2	87.74	" ...	39016	"
.....	10.82	3.30	43.5	85.88	" ...	39017	"
.....	7.84	2.70	43.0	89.46	" ...	39018	"
.....	8.58	3.06	44.0	88.36	" ...	39019	"
.....	9.28	2.70	42.9	88.02	" ...	39020	"
.....	8.64	2.84	44.3	86.52	" ...	39021	"

J. J. COSTIGAN, INSPECTOR.

Falle's Special.....	8.04	2.16	44.2	89.80	None...	40801	Genuine.
.....	10.24	1.67	44.0	88.09	" ...	40802	"
.....	10.60	2.20	43.5	87.20	" ...	40803	"
.....	6.36	2.40	44.0	91.24	" ...	40804	"
.....	6.06	2.60	44.3	91.34	" ...	40805	"
.....	7.76	3.08	42.9	89.16	" ...	40806	"
.....	7.70	1.22	44.2	91.08	" ...	40807	"
.....	5.28	2.16	43.9	92.56	" ..	40808	"
.....	10.82	0.20	45.0	88.92	Present	40809	"
Labelled Central Dairy Co.	9.42	0.20	43.3	90.48	None...	40810	"

¹ Reichert Meissl Number 28.3.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	COST.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF OTTAWA—							
1912.							
Feb.	2 Table Butter....	50111	The Civil Service Co-op. Supply Ass'n., Ottawa.	1 lb.	35	Unknown	Moynour, Ottawa.
"	2 " "	50112	J. Bambrick, Ottawa.	1 "	35	A. Trudl & Bro., William St., Montreal.	
"	2 " "	50113	Wall & Co., " "	1 "	35	Unknown	Moynour, Ottawa.
"	2 " "	50114	S. Diamond, By Ward Market, Ottawa.	1 "	33	"	Unknown
"	2 " "	50115	A. E. Rea & Co., Ltd., Ottawa.	1 "	33	"	Moynour, Ottawa.
"	5 " "	50116	H. H. Layng, Smith's Falls.	1 "	32	"	Anderson & Langstaff, Kempville.
"	7 " "	50117	T. R. Dunkin, Corn wall.	1 "	40	"	James Alexander, Ltd., Montreal.
"	9 " "	50118	P. A. Hnot & Son, Alexandria.	1 "		"	Unknown
"	13 " "	50119	Stewarts Ltd., Renfrew.	1 "	30	"	Mrs. Ferguson, Admaston.
"	19 " "	50120	Jos. P. Valiquette, Dalhousie St., Ottawa.	1 "	38	"	Moynour, Ottawa.

DISTRICT OF KINGSTON—

Feb.	5 Table Butter....	49511	Wm. J. Armit, Kingston.	1 lb.	38	Eastern Dairy School, Kingston.	
"	6 " "	49512	Wm. Davies, Kingston.	1 "	38	Maple Leaf Standard Dairy.	
"	7 " "	49513	H. E. Fairfield, Belleville.	1 "	40	G. A. Gillespie, Peterboro'.	
"	7 " "	49514	Thompson Bros., Belleville.	1 "	38	Cold Spring, Toronto.	
"	7 " "	49515	C. Hilton, Belleville.	1 "	38	Jersey Lily Dairy.	
"	7 " "	49516	Geo. Pearson, Belleville.	1 "	40	E. B. Mallory, Frankford.	
"	8 " "	49517	J. H. Heal, Peterboro'.	1 "	38	Central Smith Dairy Co.	
"	8 " "	49518	J. E. Lillico, Peterboro'.	1 "	38	S. A. Southworth, Omencee Creamery.	
"	8 " "	49519	H. Bradshaw, Peterboro'.	1 "	38	G. A. Gillespie, Peterboro'.	
"	8 " "	49520	A. Pearson, Peterboro'.	1 "	38	Unknown	

TABLE BUTTER.

Inspector's Report (Is not an expression of opinion).	RESULTS OF ANALYSIS.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Salt.	Bu'tyro re- fractometer reading at 40°C.	Dry saltless Butter.	Bo'ric acid.		

J. A. RICKEY, INSPECTOR.

	p. c.	p. c.		p. c.			
Dairy	1.58	7.16	43.1	91.26	None.	50111	Genuine.
Creamery	12.56	2.36	44.2	85.08	"	50112	"
Dairy	11.06	3.20	43.2	85.64	"	50113	"
"	5.92	3.50	42.2	90.58	"	50114	"
"	4.94	3.06	43.8	92.00	"	50115	"
"	1.16	2.14	44.2	86.70	"	50116	"
Maple Leaf Creamery ...	2.36	1.70	43.5	96.94	"	50117	"
Dairy	5.16	4.78	44.0	90.06	"	50118	"
"	0.74	5.36	43.2	94.90	"	50119	"
Creamery.....	5.80	1.50	44.2	92.70	"	50120	"

JAS. HOGAN, INSPECTOR.

.....	7.98	1.88	42.9	91.14	None.	49511	Genuine.
.....	13.70	1.40	43.8	84.90	"	49512	"
.....	10.04	3.80	43.3	86.16	"	49513	"
.....	3.80	1.50	44.0	94.70	"	49514	"
.....	9.08	3.34	42.7	87.68	"	49515	"
.....	3.26	3.56	42.8	92.18	"	49516	"
.....	7.04	1.60	42.5	91.36	Present.	49517	"
.....	3.16	3.18	44.8	93.66	None.	49518	"
.....	4.42	2.00	44.1	93.58	"	49519	"
.....	4.52	2.86	43.3	92.62	"	49520	"

¹ Richert Me'rl number 29.2.

BULLETIN No. 238--

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quality.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF TORONTO--

1911.							
Feb.	7	Table Butter....	49327	The Duff-Jones Co., Ltd., 216 York St., St., Hamilton.	1 lb.	35	Farmers.....
"	7	"	49328	A. J. Lambert, 17 Market Hall, Hamilton.	1	32	Geo. Detweiler, Cargill.....
"	14	"	49329	The Wm. Davies Co., Ltd., 1291 Bloor St., Toronto.	1	38	Vendors.....
"	19	"	49330	The Ferguson Produce Co., Shelburne, Ont.	1	32	Wm. Shields, Shelburne, Ont.
"	20	"	49331	McDougal & Evans, Ltd., Owen Sound.	1	35	
"	20	"	49332	Dan. McClean, Owen Sound.	1	37	Farmers.....
"	21	"	49333	C. T. Enright, Colingwood.	1	25	"
"	29	"	49334	England & Sons, 758 Bathurst St., Toronto.	1	33	Vendors.....
Mch.	1	"	49335	J. McCuaig, Eglington, Ont.	1	38	E. Brown, Victoria Square.
"	2	"	49336	Doige Produce Co., 117 Carleton St., Toronto.	1	40	D. C. Ross, Brussels, Ont.

DISTRICT OF LONDON--

Feb.	19	Table Butter....	47881	Jones & May, Exeter	1 lb.	31	Unknown.....	Unknown.....
"	20	"	47894	Beacom & Smyth, Clinton.	1	30	"	"
"	20	"	47899	Cantelon Bros., Clinton.	1	32	"	"
"	20	"	48201	H. Wiltse, Clinton.	1	30	A. Innis, Stanley Tp.	
"	21	"	48211	Cardno Bros., Seaforth.	1	32	Unknown.....	Unknown.....
"	21	"	48212	T. S. Blues, Seaforth.	1	30	Mrs. Kirton.....	
"	22	"	48219	Knecht Grocery Co., Stratford.	1	33	Unknown.....	Unknown.....
"	24	"	48226	A. Beattie & Co., St. Marys.	1	38	St. Marys Creamery Co., St. Marys.	

TABLE BUTTER.

Inspector's Report (Is not an expression of opinion.)	RESULTS OF ANALYSIS.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Salt.	Butyro re- fractometer reading at 40°C.	Dry Saltless Butter.	Boric acid.		

H. J. LAGER, INSPECTOR.

	p.c.	p.c.		p.c.			
.....	4.92	1.80	42.7	93.28	None.	49327	Genuine.
.....	2.20	2.30	42.9	95.50	"	49328	"
Woodside Creamery.....	8.52	1.80	43.3	89.68	Present.	49329	"
.....	3.54	3.56	43.6	92.90	None.	49330	"
.....	1.84	3.25	42.8	94.91	"	49331	"
.....	10.84	1.52	42.7	87.64	"	49332	"
.....	2.28	3.42	46.2	94.30	" ¹	49333	Probably genuine, but fat of exceptional character.
.....	10.76	1.96	43.1	87.28	"	49334	Genuine.
.....	7.84	3.80	41.8	88.36	"	49335	"
.....	8.62	2.92	42.9	88.46	"	49336	"

JNO. TALBOT, ACTING INSPECTOR.

.....	7.28	2.58	43.0	91.14	None.	47881	Genuine.
.....	3.12	1.66	42.8	95.22	"	47894	"
.....	6.30	2.70	43.0	91.00	"	47899	"
.....	9.16	4.40	42.5	86.34	"	48201	"
.....	5.52	3.58	42.5	91.90	"	48211	"
.....	6.58	2.20	43.0	91.22	"	48212	"
.....	4.60	0.70	43.0	94.70	"	48219	"
.....	6.60	2.20	42.5	91.20	"	48226	"

¹ Reichert Meissl number 24.9.
Polenske 3.0.
Iodine 45.0.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	COST.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF WINDSOR—

1911.							
Feb.	13	Table Butter...	47876 Jas. Noble, Strathroy	1 lb.	32	Miss McIntyre, Adelaide.	.....
"	13	"	47878 Wm. Cross, Strathroy	1 "	32	Unknown	..... Unknown
"	6	"	48077 A. J. Clark & Co., London.	1 "	40	Kerwood Creamery Co., Kerwood.	.....
"	7	"	48081 E. S. English, London	1 "	40	"	.....
"	7	"	48084 Wm. Hayes, London	1 "	35	"	..... Mrs. Ardell
"	7	"	48088 S. H. Wilson, London East.	1 "	38	Medway Creamery	.....
"	8	"	48091 Mrs. F. Bong, London West.	1 "	36	Maple Leaf Creamery	.....
"	8	"	48093 R. W. Jones, London West.	1 "	36	Mrs. Scott	.....
"	8	"	48094 J. A. Glin, London West.	1 "	40	Medway Creamery, Arva, Ont.	.....

DISTRICT OF MANITOBA—

Mar.	13	Table Butter...	47479 C. H. Hoffman & Son, grocers, Winnipeg.	1 lb.	45	Crescent Creamery Co., Winnipeg.	Manufacturers..
"	13	"	47480 " "	1 "	45	Swift & Co., Winnipeg.	" ..
"	13	"	47481 W. R. Strafer, grocer, Winnipeg.	1 "	35	Unknown	Rosen Salamon, Jarvis Ave., Winnipeg.
"	13	"	47482 D. A. Ritchie, grocer, Winnipeg.	1 "	40	"	The Simpson Produce Co., Winnipeg.
"	14	"	47483 D. G. Macdonald, Portage La Prairie.	1 "	40	The Ideal Creamery Co., Portage La Prairie.	Manufacturers..
"	15	"	47484 G. T. Grant & Co., grocers, Winnipeg.	1 "	45	The Carson Hygienic Dairy Co., Winnipeg.	" ..
"	15	"	47485 " "	1 "	45	The Crescent Creamery Co., Winnipeg.	" ..
"	15	"	47486 Hicks & Gillespie, grocers, Winnipeg.	1 "	45	The Carson Hygienic Dairy Co., Winnipeg.	" ..
"	19	"	47487 Alex. Reid, grocer, Brandon.	1 "	45	The Brandon Creamery & Supply Co., Brandon.	" ..
"	19	"	47488 A. M. Percival, grocer, Brandon.	1 "	40	"	" ..

TABLE BUTTER.

RESULTS OF ANALYSIS.

Inspector's Report. (If not an expressed opinion.)

Water.
Salt.
Butyric to compute total fat at 100°C.
Dry Solids.
Butter.
Butte Acid.

No. of Sample

Remarks and Opinion of the Chief Analyst.

J. S. TALBOT, INSPECTOR.

	100°	100°	100°	100°		
.....	3.16	1.56	43.0	95.28	None.	47576 Genuine.
.....	8.60	2.90	43.0	80.79	"	47575 "
.....	6.92	1.70	43.3	91.3	"	48577 "
.....	6.56	1.88	43.3	91.76	"	48081 "
.....	5.40	3.00	43.5	90.94	"	48081 "
.....	6.28	1.45	42.7	89.26	"	48088 "
.....	9.20	1.50	44.5	86.50	"	48004 "
.....	6.46	1.50	43.6	92.34	"	48693 "
.....	5.38	2.76	42.8	94.86	"	48004 "

A. C. LARIVIERE, INSPECTOR.

Crescent Creamery	15.26	3.16	43.4	81.58	None	47479 Below standard in fat. Adulterated.
Brookfield Creamery	10.90	3.30	43.0	86.76	"	47480 Genuine.
.....	2.54	1.52	43.5	95.94	"	47481 "
From Cowansville, P. Q.	3.24	1.20	43.6	95.59	"	47482 "
.....	6.10	1.10	43.9	92.80	"	47485 "
.....	13.84	5.50	44.8	80.66	"	47481 Below standard in fat. Adulterated.
.....	13.74	1.46	42.9	84.80	"	47485 Genuine.
.....	13.36	1.66	44.0	84.98	"	47486 "
.....	15.17	3.38	43.5	81.45	"	47487 Below standard in fat. Adulterated.
"Prairie Rose".....	16.82	3.00	42.5	79.28	"	47488 Below standard in fat and excess water. Adulterated.

¹ Reichert Meissl number, 29.7. 23111—2

² Reichert Meissl number 28.7.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Finisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Finisher.
DISTRICT OF CALGARY—							
1912							
March 6	Table Butter...	4411	Capital Mercantile Co., Edmonton, Alta.	lb	45	Gilt Edge Creamery, Edmonton.	
" 7	"	4412	Hudson Bay Co., Edmonton, Alta.	1	40	Swift Packing Co., Evanston.	
" 7	"	4413	Vine Co., Edmonton, Alta.	1	50	Edmonton City Dairy, Edmonton.	
" 8	"	4414	Halter & Aldridge, Edmonton, Alta.	1	45	Swift Co., Edmonton.	
" 8	"	4415	J. H. Morris & Co., Edmonton, Alta.	1	45	Flavelle, Ltd., Lindsay, Ont.	
" 15	"	4416	P. Burns Co., Ltd., Calgary.	1	40	Vendors.	
" 15	"	4417	Maitland & Co., Calgary.	1	45	The Swift Canadian, Calgary.	
" 15	"	4418	Hallett & Longden, Calgary.	1	45	" "	
" 15	"	4419	S. G. Freeze, Calgary.	1	45	Campbell & Griffith, Calgary.	
" 15	"	4420	Calgary Cattle Co., Calgary.	1	40	P. Burns & Co., Ltd., Calgary.	

DISTRICT OF NELSON—

Feb. 13	Table Butter...	4893	England & Son, Kamloops, B.C.	1 lb	45	Swift Canadian Co., Edmonton.	
" 13	"	4894	" " " "	1	45	F. R. Stewart & Co., Vancouver.	
" 13	"	4895	" " " "	1	40	" "	
" 13	"	4960	Hudson Bay Co., Kamloops, B.C.	1	40	" "	
" 13	"	4966	Stevens & Allen, Kamloops, B.C.	1	40	A. P. Shale & Co., Vancouver.	
" 13	"	4969	P. Burns & Co., Kamloops, B.C.	1	40	Vendors, Calgary.	
" 20	"	4923	F. L. Rosenbrock, Ashcroft, B.C.	1	45	New Westminster Creamery Co., New Westminster.	
" 20	"	4924	J. J. Ling & Co., Ashcroft, B.C.	1	40	W. H. Malkin Co., Vancouver.	
" 20	"	4925	" " " "	1	40	Swift Canadian Co., Edmonton.	
" 20	"	4926	" " " "	1	40	Milne & Gunn, Vancouver.	

TABLE BUTTER.

Inspector's Report (Is not an expression of opinion.)	RESULTS OF ANALYSIS.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Salt.	Hygroscopic refractometer reading at 40° C.	Dry saltless Butter.	Butter acid.		

R.W. FLETCHER, INSPECTOR.

	p. c.	p. c.		p. c.		
.....	12.36	1.52	42.7	86.12	Present.	4111 Genuine.
.....	10.52	2.70	43.5	86.78	None.	4112 "
.....	10.40	1.90	43.6	87.70	"	4113 "
.....	7.04	1.90	45.3	91.66	"	4114 "
.....	10.88	3.08	43.7	86.04	"	4115 "
.....	11.56	3.16	43.2	84.98	"	4116 "
.....	13.40	2.06	42.7	84.51	"	4117 "
.....	11.02	1.56	42.9	87.48	"	4118 "
.....	12.31	2.52	43.9	85.14	Present.	4119 "
" Shamrock " Brand	11.08	2.81	43.6	83.18	None.	4120 "

THOS. PARKER, INSPECTOR.

.....	5.20	2.00	45.3	92.80	None.	48493 Genuine.
.....	12.66	1.66	43.2	86.28	"	48494 "
.....	9.14	1.60	42.5	89.26	"	48495 "
.....	3.80	1.00	42.8	95.20	"	49601 "
.....	13.52	2.08	42.3	84.40	"	49606 "
.....	3.14	1.56	44.0	95.30	"	49610 "
.....	6.68	2.00	45.2	91.32	"	49623 "
.....	8.24	2.30	43.3	89.46	"	49624 "
.....	8.06	1.66	43.5	90.28	"	49625 "
.....	6.72	1.58	43.5	91.70	"	49626 "

¹ Reichert Meissl number, 25.6. ² Reichert Meissl number, 26.0. ³ Reichert Meissl number, 28.3.

Date of Collection	Nature of Sample	Quantity	Name of Vendor	Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Manufacturer	Furnisher
DISTRICT OF VANCOUVER					
1912.					
Feb. 13	Table butter	526	Baldam, Milner, I. B., C.	40	New Zealand Ice Cream Co., P.O. Box 11, N.S.
13	"	38	Howes & Carnersess, I. B., Vancouver, B.C.	40	A.P. Sibley & Co., Vancouver
13	"	5	N. Parr, Clover, I. B., C., B.C.	50	Farmers
13	"	3	Howes Cash Grocery, I. B., Chilliwack, B.C.	55	A.P. Sibley & Co., Vancouver
13	"	1	Howes Dept. Store, I. B., Chilliwack, B.C.	40	Chilliwack Creamery, Chilliwack, B.C.
14	"	9	Fre & Kerr, Abbot'sford, B.C.	35	J. Wolfe, Abbot'sford, B.C.
14	"	2	Brook, Abbot'sford, I. B., B.C.	40	E. R. Stewart & Co., Vancouver
14	"	48	N. Antier, Abbot'sford, I. B., B.C.	45	Abbot'sford Valley Creamery, Abbot'sford, B.C.
15	"	182	Howes Bakery, Mission Jct., B.C.	40	A.P. Sibley & Co., Vancouver
15	"	3	Howes Dairy Gen. Store, I. B., Mission Jct., B.C.	40	W. H. Malkin & Co., Vancouver
DISTRICT OF VICTORIA					
Feb. 22	Table butter	4781	Windsor Grocery Co., I. B., Victoria, B.C.	50	Cowichan Creamery Association, Duncan, B.C.
27	"	4782	Windsor Grocery Co., I. B., Victoria, B.C.	50	Salt Spring Island Creamery, Ganges Harbour, B.C.
28	"	4783	The West End Grocery Co., Ltd., Victoria, B.C.	35	R. S. Bither & Co., Victoria, B.C.
28	"	4784	The West End Grocery Co., Ltd., Victoria, B.C.	40	B. Wilson Co., Ltd., Victoria, B.C.
29	"	4785	D. H. Ross & Co., I. B., Victoria, B.C.	40	Western Bros., Victoria, B.C.
29	"	4786	D. H. Ross & Co., I. B., Victoria, B.C.	50	Island Creamery Association, Victoria, B.C.
Mar. 1	"	4787	Copas & Young, Victoria, B.C.	40	The Comox Creamery Association, Comox, B.C.
1	"	4788	Win. B. Hill, Victoria, B.C.	40	Northwestern Creamery, Victoria, B.C.
6	"	4789	Harrison & McDonald, Victoria, B.C.	40	Northwestern Creamery, Victoria, B.C.
6	"	4790	Acton Bros., Victoria, B.C.	40	B. Wilson Co., Ltd., Victoria, B.C.

TABLE BUTTER.

Inspector's Report (not an expression of opinion.)	RESULTS OF ANALYSIS.					No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Water.	%	Butyro-re- fractometer Reading at 40° C.	Dry Salt Butter.	%		

J. F. POWER, INSPECTOR.

	p. c.	p. c.		p. c.		
.....	13.82	2.20	42.3	83.98 Present.	38265	Genuine.
.....	11.84	2.20	43.0	85.96 None ..	38266	"
.....	4.70	1.46	42.9	93.84 " ..	38267	"
.....	14.26	1.54	43.1	84.20 " ..	38268	"
.....	0.54	2.10	43.5	97.36 Present.	38269	"
.....	6.68	1.24	42.1	92.08 None..	38270	"
.....	7.84	2.00	42.7	90.16 " ..	38271	"
.....	5.82	2.26	43.7	91.02 " ..	38272	"
.....	9.84	2.34	42.2	87.82 " ..	38273	"
.....	7.12	3.20	44.2	89.68 Present.	38274	"

D. OSULLIVAN, INSPECTOR.

.....	10.40	0.50	43.2	89.19 None..	47681	Genuine.
.....	9.10	2.20	42.0	88.70 " ..	47682	"
White Clover Creamery.	7.10	2.66	44.0	90.24 " ..	47683	"
Finest New England Creamery.	7.24	1.20	42.7	91.56 " ..	47684	"
Auburn Creamery.....	9.00	1.60	44.1	89.40 " ..	47685	"
Island Creamery.....	7.88	0.54	42.1	91.58 " ..	47686	"
.....	10.40	1.40	42.2	83.20 " ..	47687	"
Northwestern Creamery.	6.92	1.56	43.4	91.52 " ..	47688	"
.....	14.24	1.30	42.2	84.46 " ..	47689	"
Lindow Grove Creamery.	15.04	2.26	43.0	82.70 Present.	47690	"

