

**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	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	12x		16x		20x		24x		28x		32x

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

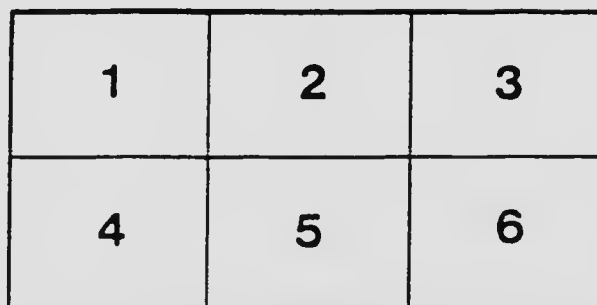
National Library of Canada

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 shall 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:

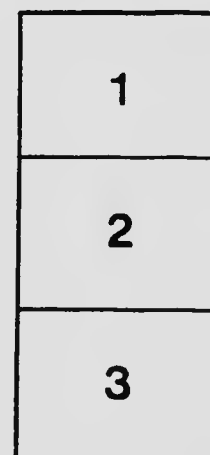
Bibliothèque nationale du Canada

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 apparaîtra 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.



LABORATORY
OF THE
INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 107

DOMESTIC BUTTER

1871

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 107.

DOMESTIC BUTTER.

LABORATORY OF THE INLAND REVENUE DEPARTMENT,
317 QUEEN ST.,
OTTAWA, ONT., September 11, 1905.

W. J. GERALD, Esq.,
Deputy Minister of I. R. D.

DEAR SIR: It is the honour to hand you a report upon domestic butter, i.e., butter as found in the retail market, and intended for home consumption. This report comprises the results of the analysis of one hundred and eighty (180) samples, collected under your authorization in July last.

It is regrettable that owing to delay on the part of Lyman Sons and Co. of Montreal in supplying containers to our inspectors, no samples were collected in the districts of Nova Scotia, New Brunswick and Prince Edward Island. In each of the remaining (nine) districts, twenty samples were collected.

The work of analysis has been done in this laboratory and I have to acknowledge valuable assistance on the part of Mr. Valin and Miss Wright.

Most of these samples are farm made butters, and many of the vendors were unable to trace samples to their origin. Nineteen of the samples are designated as 'Creamery made'.

We hear so much about the presence of borax and boracic acid in Export Canadian butter, that it is very surprising to find only one of the samples included in this report, containing this preservative. The sample in question (No. 18, Montreal) was purchased from Ewan Bros., 376 St. Antoine St., Montreal, but its maker is unknown.

In further corroboration of the absence of borax, in domestic butter, I caused eleven (11) samples of creamery butter as supplied to the Ottawa market, and representing as

many different makers, to be specially examined. Farm made butters being apparently quite free from borax, I wished to know whether the preservative was used by the larger creameries. The following results were obtained with these samples.

Creamery.	Vendor	Borax.
A—Maxville (Edwards Creamery Co).....	McGregor.....	Present.
B—Rising Sun (North Wakefield).....	".....	"
C—Golden Leaf.....	Scott.....	None.
D—Renfrew.....	Bate.....	Present.
E—Aldernay (Wellington St.).....	Bryson & Graham.....	None.
F—Amprior.....	Moreland.....	"
G—Hilbrook (Prescott).....	Lindsay.....	"
H—Laurentian (N. Nation Mills).....	Bate.....	"
I—Royal (East Templeton).....	".....	"
K—Ottawa Cold Storage.....	Matthews.....	"
L—Favorite.....	Ottawa Dairy Co.....	"

Thus it appears that three (3) out of eleven creameries supplying butter to Ottawa use borax. It is noteworthy that No. 25472 (No. 1, Kingston), said to be Renfrew creamery, contains no borax.

I do not wish at this time to raise the question of the desirability of employing borax in butter. There is certainly no legal objection to its use. But it is a highly interesting fact, that Canadian farm-made butter is free from borax, and that even creamery-made butter contains it quite exceptionally.

The last extensive examination of butter under the Food Act, was made in this laboratory in 1890. At that time (See Bull. 16), 150 samples were analysed; the examination having special regard to the possible presence of foreign fat (Oleo-margarine).

In the present instance the numbers tabulated under 'Refractometer,' indicate that no foreign fat exists in any of the samples now reported. It may be explained that the refractive *index* of the butter fat is observed at temperature above the *melting* point of the fat. The exact temperature of observation need not be known, since the figure found is checked by a specially graduated thermometer whose scale shows the mean reading for genuine butter fat at the temperature of observation. This number is entered in the table under the caption 'Normal,' while the observed reading is placed beside it, in the column headed 'Found.' A difference of about one unit, is permissible, owing to variations in the constitution of genuine butter fat, and to incipient rancidity.

The question of the amount of water which may legitimately be present in butter has often been discussed. In 150 samples examined in 1890, the mean water percentage was 8.97. A very careful study of the amount of water present in Canadian Creamery butter was made by Mr. Shutt, Chemist of the Experimental Farms, in 1902. Of 105 samples examined, only two showed more than 15 per cent water; only one sample exceeded 16 per cent; and ninety-two samples fell below 14 per cent. Sixteen per cent of water is, I believe, the limit fixed by English law, for imported butter. It will be seen that only one sample (No. 14, St. Hyacinthe) exceeds this amount. Only eight (8) samples exceed 14 per cent of water, while 114 samples contain less than 10 per cent.

The salt present has been determined by estimating the chlorine, and is therefore slightly below the quantity actually used for two reasons.

1st.—Commercial salt is not pure chloride of sodium, but contains traces of sulphates, etc.

2nd.—No allowance is made for the hygroscopic moisture in commercial salt. This last may frequently reach 10 per cent of its weight.

The demand for *fresh* butter, i. e., butter containing but little salt, is evidenced by the low percentage of salt found. In 1890 the salt content varied from 15.16 per cent to 1.0 per cent, the average amount being 5.15 per cent. In the present collection the average amount of salt is about 3.5 per cent.

The numbers given under 'Curd' are obtained by subtracting the 'salt' from the 'non-fat solids.' Since the former number is somewhat low, for reasons just given, the 'Curd' percentage will be correspondingly higher than the truth. The keeping qualities of a butter (apart from the addition of antiseptics) depend largely upon the completeness with which the curd is removed. This is effected by 'Working' the butter. A too complete removal of the curd, however, injures the taste of the butter, and as the public demands a table butter of distinct aroma and taste, the tendency will be to reduce the so called 'working' of the butter to a minimum, and to depend upon cold storage and the addition of preservatives to give it keeping quality.

It was proposed by Dr. Vieth of the Aylesbury Dairy Company, London, England, in 1890, that no butter offered for sale should contain less than 80 per cent of butter fat. Judged by this standard, seven (7) samples of the present collection would be condemned, as follows:--

No. 14—St. Hyacinthe	78.60	Butter fat.
" 1—Montreal	77.38	"
" 4— "	79.38	"
" 18— "	79.32	"
" 11—Kingston	79.78	"
" 12— "	79.72	"
" 17—London	79.84	"

It is, however, to be added that 113 samples (= 63 %) contain more than 85 per cent of butter fat.

I would respectfully recommend the publication of this Report as Bulletin 107.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,

Acting Chief Analyst.

TABLE I.—DOMESTIC BUTTER—JULY, 1905

Date of Collection.	Collector's Number.	Serial Number.	Name and Address of Vendor.	Cost per lb.	Name and Address of Manufacturer or Furnisher, when known.
<i>District of Quebec—C. E. Roy, Inspector.</i>				\$ cts.	
Aug. 10	27537	1	Timothé Goudreau, Limoulou.....	0 20	Damass Rouleau, Quebec.
" 10	27538	2	E. P. Bérubé, Limoulou.....	0 22	Bill Devine, Stoneham.
" 11	27539	3	G. G. Devarences et Cie, Rue St. Vallier, Place sans Bruit, Quebec.	0 24	Not known.
" 11	27540	4	J. E. Rousseau, Rue St. Vallier, Place sans Bruit, Quebec.	0 21	David McKinley, Valcartier.
" 11	27541	5	Joa. Bloin, 90 Rue St. Sauveur, St. Malo, Que.	0 22	Not known.
" 12	27542	6	J. Pepin, 132 Rue Massue, St. Sauveur, Que.	0 22	Thom. Knox, Valcartier.
" 12	27543	7	Leo. Vidal, 146 Rue Bayard, St. Sauveur, Que.	0 24	Alf. Marceau, St. Anselme.
" 12	27544	8	J. A. Lachance, 133 Rue Charest, St. Roch.	0 25	Ed. Côté, Quebec.
July 24	27532	9	Lejage & Godbout, Chicoutimi.....	0 19	M. Gagné, St. Jérôme.
" 24	27533	10	Bouchard & Michaud ".....	0 20	Taddy Tremblay, St. Fulgence.
" 26	27534	11	M. Turgeon, Lévis.....	0 22	M. Bergeron, St. Nicholas.
" 19	27525	12	Jean Drolet, 41 Marché Champlain....	0 18	M. Kelly, Inverness.
" 19	27526	13	" " ".....	0 22	Theodule Paquet, St. Nicholas.
" 20	27527	14	L. Mercier et Cie, 1137 St. Paul, Que.	0 20	Capt. Leavéque, Isle Verte.
" 27	27530	15	" " ".....		
" 27	27535	16	" " ".....		
" 20	27528	17	J. A. Poliquin, Montmagny.....	0 18	Henri Laverdière, Notre Dame du Rosaire.
" 21	27529	18	A. Maurais, Ste. Anne de la Pocardière.	0 18	France Ligott, St. Onésime.
" 22	27530	19	J. O. Giard, Rivière du Loup.....	0 22	Ex chariste Belanger, St. Antoine.
" 22	27531	20	P. O. L. J. Ouellet, Rivière du Loup	0 23	Theodule Chouinard, St. Maurice.
<i>District of St. Hyacinthe—J. C. Rouleau, Inspector.</i>					
July 19	24741	1	G. E. Brown, Pt. Fortune.....	0 20	B. Chouinillard, St. Thomas de Rigaud.
" 19	24742	2	Mde L. Landry, Buckingham.....	0 22	Arcèle Reau, near Buckingham.
Aug. 29	24743	3	J. L. Richard, St. Jérôme.....	0 20	Thos. Bows, Mille Isle.
" 30	24744	4	Wm. Stafford, Joliette.....	0 18	Neuse rappelle pas.
" 30	24745	5	Paul Clement, St. Gabriel.....	0 24	Emery Rondeau, St. Gabriel de B.
Sept. 1	24746	6	Louis Hamel, Nicolet.....	0 24	Proulx & frères, Nicolet.
" 1	24747	7	Ed. Marchand ".....	0 24	V. Gelinus, St. Gregoire, de Nicolet.
Aug. 9	24728	8	Guillet & Menard, Farnham.....	0 18	D. Hatherington, St. Bridgette.
" 9	24729	9	J. B. Nadeur, Farnham.....	0 24	Joa. Potvin, Farnham.
" 9	24730	10	Joa. Gagné, Sherbrooke.....	0 22	J. Broadbill, Orford.
" 9	24731	11	S. Fortier, East Sherbrooke.....	0 25	M. McCallister, Sherbrooke.
" 9	24732	12	Hiron & Blonin, East Sherbrooke.....	0 22	F. A. Bourque
" 14	24733	13	O'Carriagan et fils, Trois Rivières....	0 22	Gunn, Langlois & Cie, Montreal.
" 14	24734	14	Louis Buni lle et frères.....	0 23	W. E. Clement, Trois Rivières.
" 15	24735	15	P. C. Lemoine, Sorel.....	0 25	A. Magnan, Sorel.
" 15	24736	16	A. Francœur et Cie, Sorel.....	0 20	Hislop & Hunter, Montreal.
" 22	24737	17	A. Brassard, Laprairie.....	0 24	J. E. Laroche, St. Philippe.
" 25	24738	18	Richer & Daoust, Valleyfield.....	0 23	Howard & Co., Eganville.
" 23	24739	19	Seguin & Courville ".....	0 23	Green, Langlois & Co., Montreal.
" 23	24740	20	L. Bourbonnais, Coteau Landing....	0 25	Georgius Bourbonnais, Coteau Landing.
<i>District of Montreal—J. J. Costigan, Inspector.</i>					
Aug. 1	26644	1	C. H. Poudrier, Bonsecours Market..	0 25	Gunn & Langlois, Montreal.
" 1	26645	2	" " ".....	0 22	Not known.
" 4	26646	3	R. J. Smith, Bonsecours Market....	0 24	Hugh Allan, Montreal.
" 1	26647	4	" " ".....	0 20	White Packing Co., Montreal.
" 1	26648	5	N. Ethier ".....	0 23	Not known.
" 1	26649	6	" " ".....	0 20	"

TABLE I.—DOMESTIC BUTTER—JULY, 1905—*Continued.*

Date of Collection.	Collector's Number.	Serial Number.	Name and Address of Vendor.	Cost per lb.	Name and Address of Manufacturer or Furnisher, when known.
<i>District of Toronto—Con.</i>				\$ cts.	
July 19	25476	12	W. A. Sherwood & Co., St. Paul Street, St. Catherines.	0 24	Not known.
" 20	24852	13	F. W. Fearman & Co., McNab St., Hamilton.	0 24	J. Malcolm & Son.
" 20	24853	14	Peebles, Hobson & Co., King, St. W. Cor. McNab and Hamilton Sts.	0 25	Mrs. Main, Hagersville.
" 20	24854	15	W. H. Ryckman & Co., 16 McNab St., Hamilton.	0 25	St. Mary's Creamery Co.
" 20	24855	16	W. H. Ryckman & Co., 16 McNab St., Hamilton.	0 22	Gibson, Grand River.
July 20	24856	17	W. H. Ryckman & Co., 16 McNab St., Hamilton.	0 17	Nelson Creamery.
" 20	24857	18	W. R. Budge, McNab, cor. Market St., Hamilton.	0 22	Not known.
" 20	24858	19	Fowler Canadian Cr., Market Hall, Hamilton.	0 22	M. A. Valeur, Beverly.
" 20	24859	20	W. C. Hoover, Market Hall, Hamilton.	0 22	Mrs. T. Reid, Hagersville.
<i>District of London—T. Kidd, Inspector.</i>					
June 22	22900	1	J. J. McEwen, Goderich.....	0 16	M. Taggart, Colbourn Township.
" 23	22905	2	Janes Canning, Dublin.....	0 16	Mrs. John Patric, Hibbert Township.
" 22	22902	3	T. S. Ford & Co., Mitchell.....	0 16	Mrs. Robt. Rooney " "
" 22	22947	4	Cantelon Bros., Clinton, Ont.....	0 16	R. McClennol, Clinton.
" 26	22310	5	Edward O'Flaherty, Stratford.....	0 17	Mrs. M. J. Crowley, Ellis Township.
" 26	22313	6	John Gray, St. Mary's.....	0 16	Mrs. Muxworth, Fullerton Township.
" 27	22318	7	F. G. Murphy, 246 Dundas St., London.	0 18	Mrs. Hodgins Birr, London.
" 27	22321	8	C. A. O'Neill, Ingersoll.....	0 20	J. W. Harrison, Dearham Township.
" 28	22323	9	Pool & Co., Woodstock.....	0 20	S. Laurence, Oxford Township.
" 28	22327	10	R. V. Vair.....	0 15	Noble Dickinson, Norwich.
July 6	22334	11	Dunke & Co., Berlin.....	0 18	Mr. Nathin Clemmer, Waterloo Tp.
" 7	22342	12	A. G. Fitzsimons, Guelph.....	0 15	Mrs. Lush, Guelph.
" 7	22345	13	Benson Bros., Guelph.....	0 16	Mrs. McCrea, Guelph Township.
" 7	22347	14	J. M. Dooley, Guelph.....	0 16	Mrs. Black " "
" 7	22351	15	John Stone, Galt.....	0 20	George Kitcher, St. Georges.
" 10	22354	16	McKay Bros., Georgetown.....	0 15	Mrs. Wm. Hoare, Georgetown.
" 11	22356	17	D. J. Downey, Alliston.....	0 15	Mrs. Pennilton, Mulmer Tp.
" 12	22359	18	George E. Reynolds, Beeton.....	0 16	Mrs. Ramsey, Tecumsetts Tp.
" 13	22363	19	William Hammell, Tottenham.....	0 16	Mrs. Wm. King " "
" 14	22365	20	McBride & Gillespie, Orangeville.....	0 16	T. J. Henery, Caleder Tp.
<i>District of Winnipeg—W. M. Conklin, Inspector.</i>					
Aug. 4	25524	1	Otto Schultz, Gretna.....	0 20	Not known.
" 5	25528	2	J. T. Brett, Kenora.....	0 25	R. Gould, Kenora.
" 5	25529	3	H. E. Hook & Co., Kenora.....	0 25	Merrick Bros., McGregor, Man.
" 8	25533	4	The Retail Co., Morden.....	0 15	Not known.
" 8	25534	5	T. H. Heinman, Morden.....	0 15	" "
" 8	25535	6	P. A. Young & Co., Crystal City.....	0 15	" "
" 8	25537	7	J. G. McLean & Co., Pilot Mound.....	0 15	" "
" 9	25539	8	W. Pennington, Cartwright.....	0 15	" "
" 10	25541	9	F. J. Messens, Holintfield.....	0 15	" "
" 10	25542	10	Jones Bros., Nings.....	0 15	" "
" 11	25544	11	McAllister & Robinson, Boissevain.....	0 15	" "
" 15	25545	12	G. McClure, Carman.....	0 15	" "
" 15	25546	13	G. D. Raymond, Carman.....	0 15	" "
" 15	25547	14	A. E. Hill Co., Carman.....	0 18	" "
" 16	25548	15	W. Noble, Glenboro'.....	0 15	" "
" 16	25549	16	J. F. Fumerton, Glenboro'.....	0 15	" "
" 16	25550	17	Wm. Dickson, Holland.....	0 15	" "

TABLE I.—DOMESTIC BUTTER—JULY, 1905—*Continued.*

Date of Collection.	Collector's Number.	Serial Number.	Name and Address of Vendor.	Cost per lb.	Name and Address of Manufacturer or Furnisher, when known.
<i>District of Winnipeg—W. M. Conklin, Inspector.—Con.</i>				\$ cts.	
Aug. 16	25551	18	W. F. Schooley, Holland	0 15	Not known.
" 17	25552	19	McRory & McCosh, Souris	0 20	"
" 17	25553	20	A. E. Brindle, Souris	0 15	"
<i>District of Calgary—W. Fletcher, Inspector.</i>					
July 18	21800	1	Hatfield & McSaren, Calgary	0 20	Charles Ostroni, Calgary District.
" 18	21801	2	Brown & Knight "	0 20	F. C. Brook, Langdon.
" 22	21812	3	A. S. Cameron "	0 20	Joseph Robinson, Calgary Dist.
" 22	21817	4	Hudson Bay Co. "	0 20	Mrs. A. Rodgers "
" 22	21819	5	Calgary Milling Co. "	0 20	F. Moorehouse "
" 25	21821	6	Star Trading Co., Wetaskiwin	0 15	H. H. Millar, Wetaskiwin.
" 25	21824	7	Compton & Montgomery "	0 15	Not known.
" 25	21828	8	N. W. Gould "	0 20	"
" 25	21832	9	A. R. Dickson "	0 20	G. T. Thorson, Wetaskiwin.
" 27	21838	10	Hudson Bay Co., Edmonton	0 20	Mrs. Fielders, Poplar Lake, Alta.
" 27	21843	11	Revillon Bros. "	0 20	A. D. Wilson, Nanaimo, Alta.
" 27	21848	12	McDougall & Secord "	0 20	John J. Bell, Horse Hills, Alta.
" 27	21853	13	Williamson Bros. "	0 20	Mrs. Macnamara, St. Alb. rt, Alta.
" 27	21855	14	Joe Morris "	0 20	M. Ulmar, Stoney Plain, Alta.
" 27	21856	15	The Whitelaw Co Sta., Edmonton ..	0 20	Mrs. Joe Wilson, Belmont, Alta.
" 28	21860	16	C. Sugarman, Strathcona	0 20	Andrew Klapstein, Ellerslie, Alta.
" 28	21865	17	J. P. Malone "	0 20	Ira Fulton, Strathcona.
" 28	21870	18	Douglas Bros. "	0 20	Mrs. Sutherland, Strathcona.
" 28	21872	19	A. H. Richards & Co., Strathcona...	0 20	C. Chambers, Cooking Lake, Alta.
" 28	21875	20	D. L. Ghormley "	0 20	A. McLeod, Rabbit Hills, Alta.
<i>District of British Columbia—E. B. Parkinson, Inspector.</i>					
June 27	26913	1	Webster Bros., Vancouver	0 25	M. Finseth, Bardo, Alberta.
" 27	26914	2	" "	0 25	F. West, Agassiz, B. C.
" 27	26915	3	" "	0 25	Richmond Dairy Co., Vancouver.
" 27	26918	4	H. O'Lea "	0 25	Not known.
" 27	26922	5	J. P. Nightingale "	0 25	Maple Leaf Creamery, Ont.
" 28	26924	6	S. T. Wallace "	0 25	The Chiliwack Creamery, Chiliwack, B. C.
" 28	26927	7	LaBelle & Co. "	0 30	McCollough Bros., Montreal.
" 28	26932	8	C. Charters "	0 25	Griffin & Co., Vancouver.
" 29	26935	9	F. Wright "	0 25	" " "
July 4	26938	10	W. T. Heddle, Nanaimo, B. C.	0 25	A. McMillan, Denman Island, B. C.
" 6	26951	11	Victoria Co-operative Assn., Ltd., Yates St., Victoria, B. C.	0 30	Victoria Creamery, Victoria.
" 6	26952	12	Fred. Carne, cor. Yates & Broadway, Victoria.	0 25	" " "
" 6	26958	13	G. W. Robinson, Douglas St., Victoria.	0 25	The Cowichan Creamery, Victoria, B. C.
" 6	26960	14	The Saunders Grocery Co., Ltd., Johnston St., Victoria, B. C.	0 25	Comox Creamery Assn., Courtney, B. C.
" 7	26962	15	West End Grocery Co., Ltd., Govt. St., Victoria.	0 25	Albermi Creamery Assn., Albermi, B. C.
" 7	26963	16	The Windsor Grocery Co., Govt. St., Victoria.	0 30	The Delta Creamery Co., Ltd., Ladner, B. C.
" 5	26944	17	Geo. Bevilcockway, Nanaimo	0 30	The Nanaimo Creamery Assn., Ltd., Nanaimo, B. C.
Aug. 18	28015	18	Foran Bros., Vancouver	0 15	Chiliwack Creamery.
" 18	28017	19	Geo. Wagg "	0 20	A. McCollough, Montreal.
" 18	28021	20	W. Clark "	0 30	Eden Bank Creamery.

TABLE II.—DOMESTIC BUTTER—JULY, 1905—Continued.

District.	Serial Number.	Collector's Number.	Water.	Non-fat Solids.	Fat.	Sodium Chloride.	Borax or Boracic Acid.	REFRACTOMETER.		Curd.
								Normal.	Found.	
Quebec.....	1	27537	p.c. 10 16	p.c. 7 10	p.c. 82 74	p.c. 3 56	None...	48 1	48 5	p.c. 3 54
	2	27538	9 64	5 60	84 76	3 40	"	46 6	47 8	2 20
	3	27539	9 10	6 20	84 70	4 25	"	46 9	46 9	1 95
	4	27540	11 90	3 70	84 40	2 29	"	47 8	47 9	1 41
	5	27541	6 06	3 80	90 14	2 29	"	48 0	48 0	1 51
	6	27542	7 08	3 70	89 22	1 92	"	48 3	48 9	1 78
	7	27543	11 78	3 08	85 14	2 16	"	46 8	48 0	0 92
	8	27544	13 12	4 18	82 70	2 80	"	47 1	47 0	1 38
	9	27532	7 96	2 08	89 96	1 14	"	47 1	46 9	0 94
	10	27533	6 76	6 90	86 34	3 14	"	45 8	45 0	3 76
	11	27534	9 48	5 70	84 82	4 40	"	46 5	46 1	1 30
	12	27525	14 56	4 20	81 24	3 40	"	48 7	48 0	0 80
	13	27526	9 24	3 70	87 06	3 11	"	48 2	48 0	0 56
	14	27527	8 76	5 14	86 10	2 59	"	47 0	47 0	2 55
	15	27536	5 72	6 20	88 08	2 89	"	46 2	46 0	3 31
	16	27535	12 22	4 24	83 54	2 54	"	47 8	47 5	1 70
	17	27528	8 66	4 48	86 86	3 65	"	47 6	47 0	0 83
	18	27529	8 54	4 90	86 56	2 55	"	47 8	46 7	2 35
	19	27530	12 46	4 00	83 54	2 55	"	46 0	46 0	1 45
	20	27531	14 20	4 80	81 00	2 04	"	45 3	45 0	2 76
St. Hyacinthe.....	1	247 41	13 30	4 88	81 82	2 72	"	46 5	46 2	2 16
	2	247 42	11 28	3 68	85 04	1 86	"	47 3	47 0	1 82
	3	247 43	8 80	5 71	85 49	4 50	"	47 1	47 0	1 21
	4	247 44	11 70	3 70	84 60	2 10	"	47 1	47 2	1 60
	5	247 45	8 40	4 10	87 50	2 80	"	48 0	47 9	1 30
	6	247 46	8 50	3 20	88 30	1 70	"	47 7	47 6	1 50
	7	247 47	13 00	4 10	82 90	2 10	"	47 2	47 4	2 00
	8	247 28	6 20	2 90	90 90	2 46	"	46 7	46 0	0 44
	9	247 29	7 90	3 38	88 72	2 30	"	49 0	50 0	1 08
	10	247 30	10 00	3 20	86 80	2 46	"	46 9	46 0	0 74
	11	247 31	9 74	4 42	85 84	3 38	"	47 2	47 0	1 04
	12	247 32	7 34	4 50	86 16	3 30	"	49 0	50 0	1 20
	13	247 33	11 00	4 00	85 00	3 31	"	47 1	47 2	0 69
	14	247 34	18 16	3 24	78 60	2 55	"	47 2	47 2	0 69
	15	247 35	10 32	3 00	86 68	2 21	"	47 3	47 0	0 79
	16	247 36	12 40	4 70	82 90	4 59	"	47 4	47 0	0 11
	17	247 37	13 20	4 10	82 70	2 90	"	47 4	47 1	1 20
	18	247 38	8 50	6 42	85 08	4 82	"	46 3	46 0	1 60
	19	247 39	8 28	4 22	87 50	2 90	"	46 7	46 8	1 34
	20	247 40	12 04	6 40	81 56	3 48	"	47 0	47 2	2 92
Montreal.....	1	26644	13 12	9 50	77 38	6 46	"	46 2	46 0	3 04
	2	26645	9 16	4 88	85 96	3 65	"	47 6	47 6	1 23
	3	26646	11 36	7 90	80 74	7 02	"	46 8	46 0	0 88
	4	26647	15 06	5 56	79 38	3 31	"	46 0	46 0	2 25
	5	26648	13 54	6 34	80 12	2 26	"	46 8	40 5	4 08
	6	26649	9 96	6 06	83 98	4 84	"	43 3	43 0	1 22
	7	26650	6 76	2 74	90 50	1 12	"	48 5	48 5	1 62
	8	26651	9 84	3 44	86 72	2 26	"	47 5	46 6	1 18
	9	26652	10 40	5 64	83 96	3 74	"	44 8	44 5	1 90
	10	26653	9 84	6 80	83 86	2 89	"	47 0	46 2	3 41
	11	26654	9 96	5 80	84 24	3 74	"	45 5	45 5	2 06
	12	26655	11 44	7 50	81 06	2 26	"	47 0	47 1	5 24
	13	26656	8 60	5 36	86 04	3 40	"	46 5	46 5	1 96
	14	26657	9 14	7 34	83 52	4 10	"	47 0	46 8	3 24
	15	26658	13 20	6 20	80 60	3 63	"	46 3	46 3	2 57
	16	26659	14 06	4 16	81 78	1 70	"	46 1	45 9	2 46
	17	26660	8 50	6 70	84 80	4 33	"	46 2	46 0	2 37
	18	26661	14 68	6 00	79 32	1 64	Borax	48 2	46 0	*4 36
	19	26662	10 72	4 60	84 68	2 72	None	46 7	46 5	1 88
	20	26663	5 46	4 04	90 50	1 79	"	47 0	46 2	2 25
Kingston.....	1	25472	3 68	3 58	92 74	2 85	"	48 5	48 0	0 73
	2	25473	8 64	3 30	87 96	2 15	"	48 5	48 5	1 15
	3	25474	7 12	3 12	89 76	2 63	"	49 5	49 5	0 49
	4	25475	7 48	2 94	89 58	2 09	"	48 3	48 0	0 85

*Borax included with curd.

TABLE II--DOMESTIC BUTTER--JULY, 1905--Continued.

Curd.	District.	Serial Number.	Collector's Number	Water.	Non-fat Solids.	Fat.	Sodium Chloride.	Borax or Boracic Acid.	REFRACTOMETER.		Curd.
									Normal.	Found.	
				p.c.	p.c.	p.c.	p.c.				p.c.
5.0				3.54							1.88
8.0				2.20							1.59
9.0				1.95							1.10
9.0				1.41							1.98
9.0				1.51							0.20
9.0				1.78							0.69
0.0				0.92							3.94
0.0				1.38							2.92
0.0				0.94							2.16
0.0				3.76							0.93
1.0				1.30							1.29
0.0				0.80							1.13
0.0				0.56							2.53
0.0				2.55							2.77
0.0				3.31							1.36
5.0				1.70							0.55
0.0				0.83							2.17
7.0				2.35							1.67
0.0				1.45							1.71
2.0				2.76							1.21
0.0				2.16							0.97
0.0				1.82							0.93
0.0				1.21							2.27
2.0				1.60							3.13
9.0				1.30							1.06
7.0				1.50							0.79
7.0				2.00							1.62
3.0				0.44							2.63
0.0				1.08							1.05
0.0				0.74							1.40
7.0				1.04							0.82
0.0				1.20							0.39
7.0				2.09							4.72
7.0				0.69							1.54
7.0				0.79							0.54
7.0				0.11							0.93
7.0				1.20							0.23
7.0				1.60							1.28
6.0				1.34							0.30
7.0				2.92							0.84
6.0				3.04							2.05
7.0				1.23							1.02
6.0				0.88							0.54
6.0				2.25							0.67
6.0				4.08							0.57
13.0				1.22							2.08
18.0				1.62							2.17
16.0				1.18							2.30
14.0				1.90							2.02
16.0				3.41							1.79
15.0				2.06							2.95
47.0				5.24							1.43
46.0				1.96							1.56
46.0				5.24							2.02
46.0				2.57							2.84
45.0				2.46							1.54
46.0				2.37							1.92
46.0				*4.36							1.76
46.0				1.88							2.76
46.0				2.25							1.12
48.0				0.73							1.20
14.0				1.15							1.80
49.0				0.49							
48.0				0.85							
	Kingston--Con	5	24851	11.08	4.00	84.92	2.12	None.	46.8	46.8	1.88
		6	25477	11.22	4.82	83.96	3.23	"	45.6	45.6	1.59
		7	25478	7.80	9.60	82.00	8.50	"	45.2	45.7	1.10
		8	25479	8.86	4.10	87.04	2.12	"	46.2	45.0	1.98
		9	25480	10.68	2.92	86.40	2.72	"	46.7	46.5	0.20
		10	25481	9.68	3.80	86.52	3.11	"	47.0	47.0	0.69
		11	25487	12.08	8.14	79.78	4.20	"	46.7	48.5	3.94
		12	25488	13.36	6.92	79.72	4.00	"	46.4	48.1	2.92
		13	25489	15.34	3.72	80.94	1.56	"	47.5	47.1	2.16
		14	25490	11.18	1.96	86.86	1.03	"	47.1	46.7	0.93
		15	25491	11.40	3.80	84.80	2.51	"	47.2	47.0	1.29
		16	25482	13.40	4.26	82.34	3.13	"	47.4	47.5	1.13
		17	25483	8.64	5.64	85.72	4.25	"	48.8	48.8	1.39
		18	25484	12.14	4.40	83.46	1.87	"	47.3	46.5	2.53
		19	25485	10.52	7.36	82.12	4.59	"	46.0	16.5	2.77
		20	25486	8.44	4.50	87.06	3.14	"	49.8	49.8	1.36
	Toronto	1	24840	8.68	4.80	86.52	4.25	"	49.5	50.0	0.55
		2	24841	9.06	4.80	86.14	2.63	"	47.4	47.8	2.17
		3	24842	10.00	6.34	83.66	4.67	"	47.6	47.0	1.67
		4	24843	9.64	4.00	86.36	2.29	"	46.4	47.0	1.71
		5	24844	10.06	6.82	83.12	5.61	"	46.4	46.0	1.21
		6	24845	10.00	4.00	86.00	3.03	"	46.4	46.0	0.97
		7	24846	13.68	4.04	82.28	3.11	"	46.4	47.0	0.93
		8	24847	9.76	7.29	83.04	4.93	"	48.3	49.6	2.27
		9	24848	11.14	5.00	83.86	1.87	"	46.4	46.0	3.13
		10	24849	10.28	4.64	83.08	3.59	"	45.3	45.0	1.06
		11	24850	9.16	6.48	84.36	5.68	"	44.6	44.0	0.79
		12	24852	7.40	4.00	88.60	2.38	"	45.0	44.9	1.62
		13	24856	8.96	5.60	85.44	2.97	"	49.0	49.0	2.63
		14	24853	10.24	4.28	85.48	3.23	"	49.1	48.8	1.05
		15	24854	11.00	3.68	85.32	2.28	"	49.8	49.0	1.40
		16	24855	8.80	6.34	84.86	5.52	"	48.8	48.5	0.82
		17	24856	13.16	5.20	81.64	4.81	"	48.0	48.0	0.39
		18	24857	9.40	7.18	83.42	2.46	"	48.4	48.0	4.72
		19	24858	10.42	4.00	85.58	2.46	"	48.0	48.5	1.54
		20	24859	8.86	4.36	86.78	3.82	"	47.0	47.0	0.54
	London	1	22300	9.74	2.80	87.46	1.87	"	49.7	49.0	0.93
		2	22305	8.26	2.10	89.64	1.87	"	49.4	49.0	0.23
		3	22302	4.78	3.26	91.96	1.98	"	47.4	47.0	1.28
		4	22297	9.44	4.80	85.76	4.50	"	49.8	49.0	0.30
		5	22310	11.68	5.60	82.72	4.76	"	48.7	48.0	0.84
		6	22313	8.20	4.60	87.20	2.55	"	47.8	48.5	2.05
		7	22318	4.96	3.40	91.64	2.38	"	47.3	46.0	1.02
		8	22321	6.36	7.34	86.30	6.80	"	48.7	48.5	0.54
		9	22323	5.62	4.00	90.38	3.33	"	47.3	47.0	0.67
		10	22327	3.94	4.44	91.62	3.87	"	46.4	44.9	0.57
		11	22334	6.08	3.70	90.22	1.62	"	48.0	48.0	2.08
		12	22342	5.96	3.62	90.42	1.45	"	48.4	48.0	2.17
		13	22345	6.44	4.00	89.56	1.70	"	48.2	48.0	2.30
		14	22347	8.88	4.14	86.98	2.12	"	48.6	48.0	2.02
		15	22351	7.78	4.76	87.46	2.97	"	46.4	45.5	1.79
		16	22354	9.56	5.84	84.60	2.89	"	44.0	42.9	2.95
		17	22356	9.72	10.44	79.84	9.01	"	48.7	49.0	1.43
		18	22359	9.20	5.76	85.04	5.01	"	46.8	46.5	0.75
		19	22363	9.56	4.40	86.04	3.14	"	45.0	45.0	1.26
		20	22365	8.76	5.72	85.52	4.16	"	45.4	45.0	1.56
	Winnipeg	1	25524	7.86	5.40	86.74	3.38	"	49.0	48.8	2.02
		2	25528	11.82	4.70	83.48	1.86	"	48.8	48.5	2.84
		3	25529	5.32	9.16	85.52	7.62	"	49.4	49.1	1.54
		4	25533	9.90	6.94	83.16	5.02	"	48.5	49.0	1.92
		5									

TABLE II.—DOMESTIC BUTTER—JULY, 1905—*Concluded.*

District.	Serial Number.	Collec- tc. s Number	Water.	Non-fat Solids.	Fat.	Sodium Chloride.	Borax or Boracic Acid.	REFRACTOMETER.		Curd.
								Normal.	Found.	
			p.c.	p.c.	p.c.	p.c.				p.c.
Winnipeg— <i>Con.</i>	10	25542	8.28	3.72	88.00	1.93	None . . .	47.1	46.9	1.79
	11	25344	9.92	4.20	85.88	2.08	" . . .	46.5	46.7	2.12
	12	25345	9.56	4.80	85.64	4.56	" . . .	47.5	47.0	0.24
	13	25546	9.78	3.76	86.46	2.96	" . . .	45.5	45.1	0.80
	14	25547	7.40	5.40	87.20	5.18	" . . .	47.5	48.0	0.22
	15	25548	8.48	3.22	87.30	2.08	" . . .	46.8	46.1	1.14
	16	25549	8.78	5.18	86.04	3.02	" . . .	46.3	45.6	2.16
	17	25550	9.32	3.00	87.68	1.80	" . . .	46.4	46.2	1.20
	18	25551	14.20	1.48	84.32	1.00	" . . .	45.8	44.8	0.48
	19	25552	9.96	2.88	87.16	1.62	" . . .	46.5	46.2	1.26
	20	25553	6.74	3.58	89.68	2.30	" . . .	47.3	47.0	1.28
Calgary	1	21800	7.30	4.76	87.94	1.87	" . . .	45.3	45.1	2.89
	2	21801	7.64	5.58	87.68	3.44	" . . .	47.7	47.5	2.14
	3	21812	12.20	3.68	84.12	1.95	" . . .	45.0	44.5	1.73
	4	21817	9.36	4.20	86.44	2.89	" . . .	46.2	45.2	1.31
	5	21819	8.06	3.00	88.94	1.44	" . . .	45.8	45.0	1.66
	6	21821	7.98	3.58	88.44	2.04	" . . .	46.5	46.0	1.54
	7	21824	9.66	3.40	86.94	1.24	" . . .	46.3	46.7	2.16
	8	21828	11.92	2.48	85.60	1.36	" . . .	46.5	46.3	1.12
	9	21832	8.96	3.66	87.38	1.54	" . . .	47.5	47.0	2.12
	10	21838	8.30	4.46	87.24	2.29	" . . .	46.4	46.1	2.17
	11	21843	8.88	3.98	87.14	2.97	" . . .	46.9	46.5	1.01
	12	21848	7.38	4.30	88.32	3.31	" . . .	48.5	47.5	0.99
	13	21853	5.46	6.00	88.54	3.82	" . . .	46.7	46.0	2.13
	14	21855	7.77	2.34	89.92	1.36	" . . .	46.7	45.0	0.98
	15	21856	8.15	3.44	88.41	2.89	" . . .	46.8	46.3	0.53
	16	21860	10.76	8.09	81.16	5.46	" . . .	47.9	47.8	2.62
	17	21865	10.20	4.98	84.82	2.68	" . . .	47.5	47.5	2.30
	18	21870	11.08	3.57	85.22	1.64	" . . .	47.6	47.3	2.06
	19	21872	8.10	2.38	89.32	0.78	" . . .	46.0	46.7	1.80
	20	21875	12.06	3.76	84.18	1.72	" . . .	47.4	47.0	2.04
British Columbia	1	26913	8.88	4.68	86.44	2.98	" . . .	48.9	48.0	1.70
	2	26914	12.56	3.60	83.84	2.21	" . . .	48.4	48.0	1.39
	3	26915	5.80	3.22	90.98	1.36	" . . .	47.6	46.8	1.86
	4	26918	5.85	2.68	91.47	1.46	" . . .	46.8	46.0	1.22
	5	26922	7.56	3.36	89.08	1.36	" . . .	50.1	49.0	2.00
	6	26924	6.78	2.20	91.02	1.19	" . . .	48.5	48.7	1.01
	7	26927	8.67	3.34	87.99	1.62	" . . .	48.3	47.0	1.72
	8	26932	7.02	4.28	88.70	2.80	" . . .	49.0	48.0	1.48
	9	26935	5.44	4.66	89.90	2.63	" . . .	48.4	48.2	2.03
	10	26938	8.60	3.22	88.18	1.45	" . . .	46.0	46.0	1.77
	11	26951	8.76	4.94	86.30	1.70	" . . .	44.9	44.0	3.24
	12	26952	9.50	3.86	86.64	1.45	" . . .	44.0	44.0	2.41
	13	26958	10.72	4.28	85.00	1.53	" . . .	47.4	47.0	2.75
	14	26960	7.68	4.78	87.54	2.38	" . . .	46.5	46.0	2.40
	15	26962	11.12	4.80	84.08	2.12	" . . .	47.8	47.0	2.68
	16	26963	10.92	5.68	83.40	1.95	" . . .	48.0	47.0	3.73
	17	26944	7.70	5.46	86.84	2.38	" . . .	44.5	44.0	3.06
	18	28015	8.66	2.42	88.92	1.80	" . . .	46.6	46.0	0.62
	19	28017	12.34	2.28	84.38	1.32	" . . .	47.1	47.0	0.96
	20	28021	9.22	2.42	88.36	1.64	" . . .	46.5	47.0	0.78

