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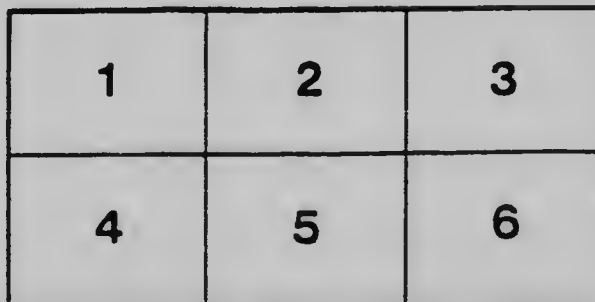
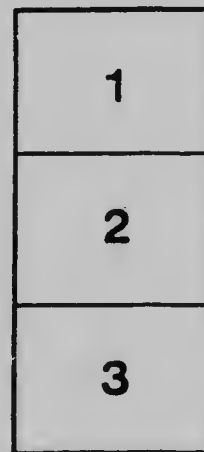
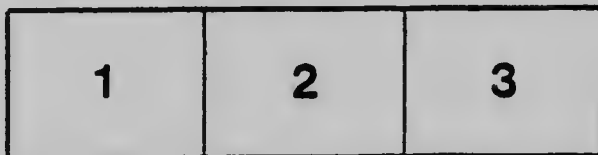
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O. H. M. S.

W. J. Gerald
Deputy Minister.

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA.

—
BULLETIN No. 142
—

MJLK

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

BULLETIN No. 142

MILK

OTTAWA, Sept. 24, 1907.

W. J. GERALD, Esq.,

Deputy Minister of Inland Revenue.

SIR,—Milk, which enters so largely into the food of people in health, and forms the almost exclusive food of infants and invalids, is without doubt, the most important single article of diet. When we take into account the ease with which it can be adulterated by skimming and watering, to say nothing of the use of preservatives, dyes, thickeners, and other modes of falsification, it follows that the control of milk production and distribution should receive the attention of the Department of Inland Revenue, as charged with the administration of the Adulteration Act.

This conclusion was evidently arrived at by the late Chief Analyst, Mr. Thomas Macfarlane, and the first official publication issued under his direction had reference to the establishing of a Standard for normal milk. Since October, 1887, when Bulletin No. 1 was issued, there have been 17 bulletins (including the present one) dealing with this subject, published by the Inland Revenue Department. Up to the present time, it has been found impracticable to define, legally, a standard milk. In order to aid in the fixing of such a standard, as well as to show that earnest efforts have been made by the departmental laboratory to secure trustworthy and sufficient data for such a step, I think it well to synoptize, as briefly as possible, the work recorded in departmental publications, during the past twenty years.

The subject of milk is dealt with in the following Bulletins, issued by this Department:—

No. 1 issued October, 1887.	No. 53 issued December, 1897.
" 2 " December, "	" 61 " January, 1899.
" 9 " June, 1889.	" 64 " May, 1899.
" 11 " October, "	" 74 " February, 1901.
" 17 " September, 1890.	" 80 " December, 1901.
" 21 " January, 1891.	" 93 " February, 1904.
" 28 " " 1892.	" 121 " June, 1906.
" 32 " March, 1893.	" 142 " September, 1907.
" 43 " January, 1896.	

Bulletin No. 1 contains a report upon 162 samples of whole milk, obtained in June, July and August, 1887, under expert supervision, from herds of not less than four cows. The following synopsis of results is of great interest and importance:—

	Novr Scotia.	New Brunswick.	Quebec.	Montreal.	Ottawa.	Toronto.
Number of samples examined.....	32	11	20	33	20	37
Butter Fat--Highest.....	5.40	4.62	4.18	5.17	5.20	4.50
" Lowest.....	3.00	3.43	3.02	2.80	3.62	2.32
" Average.....	4.24	3.91	3.54	3.82	4.26	3.38
Non-fat solids	8.48	8.54	8.85	8.47	8.67	8.70
Total solids	12.72	12.45	12.39	12.29	12.93	12.08
Water	87.28	87.55	87.61	87.71	87.07	87.92

Based upon these results, the Chief Analyst suggested the adoption of the following constants for *Standard Quality Milk*:—

Total Solids.....	12 per cent.
Butter Fat.....	3.5 "
Solids other than fat.....	8.5 "

Bulletin No. 2 contains the results of analysis of 105 samples of market milk, as supplied to twelve towns and cities, in September 1887. Nine samples containing above 5.4 per cent fat, are classified as being "partly cream," the remaining samples show the following averages:—

City or Town.	Number of samples.	Water.	Fat.	Non-fat solids.	Total solids.
Halifax, N.S.....	12	88.22	3.51	8.27	11.78
Pictou, N.S.....	5	87.12	3.86	9.02	12.88
St. John, N. B.....	9	88.01	3.96	8.03	11.99
Quebec	17	87.84	3.94	8.22	12.16
Montreal.....	14	87.08	3.83	9.09	12.92
Serbro.....	5	86.84	4.31	8.85	13.16
Ottawa	6	87.17	4.20	8.63	12.83
Kingston.....	6	88.70	3.15	8.15	11.30
Belleville.....	6	87.20	4.17	8.63	12.90
Toronto.....	5	88.04	3.52	8.44	11.96
Port Hope.....	5	87.74	3.50	8.76	12.26
Peterborough.....	6	88.01	3.87	8.12	11.99
Market Milk.....	96	87.60	3.82	8.49	12.31

Although this collection (from which all samples containing more than 5.4 per cent of fat have been excluded) includes nine samples which are adjudged as "skimmed" and twelve samples which are adjudged as "watered," the average content of butter-fat and total solids fully meets the standard set for genuine milk in Bulletin No. 1.

Bulletin No. 9 contains the results of analysis of 196 samples of market milk, collected in March and April, 1889. Omitting 5 samples which contained more than 5.4 per cent fat, and 41 samples found to be skimmed or watered, the remaining 150 samples give the following averages:—

Water.....	87.42 per cent
Butter-fat.....	3.79 "
Non-fat solids.....	8.79 "
Total solids.....	12.58 "

It therefore appears that the limit of 12 per cent for total solids, and 3.5 per cent for butter-fat, as proposed in Bulletin No. 1, cannot be regarded as too high for genuine milk.

Bulletin No. 11. This important report upon 58 samples of milk, obtained in May and June, 1889, is intended to meet the point raised by the Dominion Dairymen's Association, that the standard of 12 per cent total solids, and 3.5 per cent fat proposed by Mr. Macfarlane, might be too high, so far as May and June milk was concerned; although satisfactory as regards the milk supply of other months.

Twenty four herds were examined, the average milk, morning and evening, being analyzed. Omitting one herd of pure Jerseys, whose milk averaged 5.54 per cent fat, and 15.08 per cent total solids, the mean results are:—

Water.....	87.38 per cent.
Butter-fat.....	3.66 "
Non-fat solids.....	8.96 "
Total solids.....	12.62 "

In this Bulletin there also appears the results of examining milk supplied to 16 cheese factories in the neighborhood of London, Ont. These milks include samples known to be skimmed or watered. The average results obtained are as follows:—

Water.....	87.42 per cent.
Butter fat.....	3.80 "
Non-fat solids.....	8.78 "
Total solids.....	12.58 "

When samples known to be skimmed or watered are omitted, these averages become:—

Water.....	87.26 per cent.
Butter fat.....	3.93 "
Non-fat solids.....	8.81 "
Total solids.....	12.74 "

As a conclusion from these results, Mr. Macfarlane formally recommends the adoption of 3.5 per cent fat and 12 per cent total solids as a legal minimum for milk of standard quality.

Bulletin No. 17 gives the results of analysis of 165 samples of milk collected in the smaller towns of Ontario in July and August, 1890.

Judged on the basis of 3.5 per cent fat and 12 per cent total solids, the results are as follows:—

	Samples.	Per centage.
Adulterated or inferior.....	68	41
Genuine.....	97	59
Total.....	165	100

Bulletin No. 21 contains the result of analysis of 124 samples of milk from town supplies in Ontario and Manitoba in November, 1891. Judged on the basis of the proposed standard (3.5 per cent. fat and 12 per cent. solids) these were found to be as follows:—

	Analyst.	BELOW STANDARD.		GENUINE.		Total Samples
		Samples.	p. c.	Samples.	p. c.	
Towns in Ontario.....	Ellis.....	35	45	43	55	78
Towns in Manitoba.....	Kenrick....	10	22	36	78	46
		45	36	79	64	124

Professor Ellis expresses the opinion that it is impossible to assert that a milk has been adulterated with water, if the *solids not fat* are higher than 8 per cent; or that it has been skimmed if the fat exceeds 2.5 per cent.

Professor Kenrick questions the propriety of adopting any single standard for the whole of Canada.

Bulletin No. 28 gives the results of examination of 133 samples of milk collected in October, November and December of 1891 in the Kingston and London districts of Ontario and in Manitoba and the Northwest. The results may be summarized as follows:—

	Analyst.	BELOW STANDARD.		GENUINE.		Total.
		Samples.	p. c.	Samples.	p. c.	
Kingston district	Valade	8	30	19	70	27
London district	Harrison	11	20	43	80	54
Manitoba, &c.	Kenrick	10	20	42	80	52
		29	22	104	78	133

The classification has reference to a standard of 3.5 per cent butter-fat and 12 per cent total solids.

Bulletin No. 33. This contains the results of analysis of 186 samples of milk collected throughout Nova Scotia, Quebec and Ontario in August, September and October, 1892. The results are summarized as follows:—

	BELOW STANDARD.		GENUINE.		Total.
	Samples.	p. c.	Samples.	p. c.	
Nova Scotia	21	50	21	50	42
Quebec	19	31	43	69	62
Ontario	29	35	55	65	84
	69	37	119	63	188

The classification is based upon a standard of 3.5 per cent fat and 12 per cent total solids.

Bulletin No. 43. This gives the result of analysis of 251 samples of milk collected throughout the Dominion during October, November and December of 1895. These are classified as follows:—

Genuine	181	72 per cent.
Watered	11	
Partly skimmed	7	
Under average in total solids	15	28 "
" cream	18	
" non-fat solids	19	
Total	251	100

The following important note, by Mr. Macfarlane, occurs in the text of this Bulletin:—

‘For the information of the public, and in order to obtain greater precision hereafter, it may be well to explain the manner in which I have made use of the above expressions, as regards whole milk. The term *watered* is used, when the non-fatty

solids are under 8 per cent, and the butter percentage is below the average (3.5), or at least, not above it. When the "non-fat solids" show the normal percentage (8.5) and a lower amount of fat than 3 per cent, it is characterized as "partly skimmed". When a sample falls below 2 per cent butter fat, the word "skimmed" is used. The expression "under average" has been used for the purpose of indicating those samples whose adulteration cannot be pronounced upon with certainty, but which are, in point of quality, inferior to those marked genuine. "Under average in total solids" is the expression used when the latter fall below 12 per cent and the sample cannot be positively characterized as "watered". When the fat ranges between 3 and 3.5 per cent, the non-fat solids being normal, the sample is said to be "under average in cream"; and when the non-fat solids fall below 8.25 per cent the sample is said to be "under average" so far as regards the latter constituents.

Bulletin No. 53. This Bulletin gives the results of analysis of 178 samples, collected throughout the Dominion in September and October 1897. The following is a synopsis:—

	Samples.	Per cent.
Genuine	115	65
Adulterated	19	11
Under average	44	24
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	178	100

The classification is based upon the explanations given in Bulletin No. 43.

Bulletin No. 61 contains the results of examination of 74 samples of milk, obtained in towns of Ontario, in October, November and December of 1898. These were found as follows:—

	Samples.	Per cent.
Genuine	54	73
Adulterated	3	4
Under Average	17	23
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	74	100

Bulletin No. 64 contains the results of analyzing 29 samples of milk, taken in Montreal, St. Hyacinthe and Sherbrooke, Que., in January and February, 1899.

	Samples.	Per cent.
Genuine	21	72
Adulterated	8	28
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	29	100

This Bulletin also contains a study of the acidity of milk by A. L. Tourchot; and some work on the determination of Lactose and Casein.

Bulletin No. 74 contains the results of analysis of 131 samples, obtained throughout the Dominion, in November and December, 1900.

	Samples.	Per cent.
Genuine	104	79
Adulterated &c.	27	21
	<hr/>	<hr/>
	131	100

Preservatives (especially borates) were looked for. None were found.

Bulletin No. 80 contains the results of analysis of 182 samples of milk, taken throughout the Dominion, in September and October, 1901.

	Samples.	Per cent.
Genuine	116	64
Adulterated	7	4
Doubtful	59	32
	<hr/>	<hr/>
	182	100

In this Bulletin, the Ch. of Analyst gives more precise meaning to the term "Under average in non-fat solids"; applying it only in cases where the solids not fat are under 8.25 per cent; but the butter-fat above 75 per cent, and the total solids, not under 12 per cent.

Bulletin No. 93 gives the results of analysis of 224 samples of milk, collected in November and December of 1903, throughout the Dominion.

	Samples.	Per cent.
Genuine	159	71
Adulterated	23	10
Under average.....	42	19
	224	100

Bulletin No. 121. This Bulletin deals with the inspection of skim-milk, buttermilk and cream, as well as with whole milk. Results of analysis of 332 samples of whole milk collected throughout the Dominion in April and May, 1906, are as follows:—

	Samples.	Per cent.
Partly cream.....	13	4
Genuine	189	57
Adulterated	45	14
Doubtful.....	85	25
	332	100

Comment.

Bulletins 1 and 11 contain the results of analysis of a very large number of authentic milks; representative of 165 herds of cows, containing from 4 to more than 50 cows each. The period represented, includes the months of May, June, July and August. The following resumé, gives the results at a glance:—

Locality.	No. of Herds.	No. of Cows.	Average Fat.	Average Total Solids.
Bull. No. 1	Nova Scotia.....	32	4.24	12.72
	New Brunswick	11	3.91	12.45
	Quebec	20	3.54	12.39
	Montreal and vicinity.....	33	3.32	12.29
	Ottawa and vicinity	9	4.26	12.93
Bull. No. 11, London and vicinity.....	Toronto and vicinity.....	37	3.38	12.06
		23	3.66	12.62
	165	2,067+	3.80	12.62

Mean fat = 3.35
Mean solids = 12.46

About 2,500 cows are represented in this synopsis and it is evident that, so far as averages are concerned, the minimum limits of 3.5 per cent fat and 12 per cent solids, are fully justified.

Closer inspection of the results shows that 10 herds (comprising about 118 cows) yielded milk containing less than 3 per cent of fat. (Mean fat = 2.78 per cent) and less than 12 per cent total solids (mean total solids = 11.36 per cent).

The lowest butter-fat given by any herd is 2.52 per cent. This is from a herd of 10 cows in the vicinity of Toronto; and it is noteworthy that the Toronto district shows the poorest quality of milk, an average for 37 herds, numbering about 400 cows, being 3.38 per cent fat, and 12.08 per cent total solids.

Thirty-five herds (numbering about 380 cows) show butter-fat between 3 and 3.5 per cent, the average for this lot being 3.2 per cent. The total solids average about 11.8 per cent.

It will be noted that the work recorded in Bulletins 1, 2, 9 and 11, is made a basis for determining the limits, below which milk should be regarded as "adulterated" within the meaning of the Act. As a result of this study, the late Chief Analyst concluded that 3.5 per cent of butter-fat and 12 per cent. total solids was a reasonable standard. Individual cows failed to meet this standard; and, indeed, 45 out of 142 herds, reported in Bulletin No. 1, yielded milk containing less than 3.5 per cent fat; ten (10) of these falling below 3.0 per cent. The fact that the remaining herds yielded milk so much above 3.5 per cent. as to bring the whole up to 3.86 per cent, was held to prove that the average of 3.5 per cent fat could easily be reached by any dairyman who properly selected and properly cared for his stock; and that the dairyman who purposely selected his cows with regard to quantity of milk, and without reference to quality, should not be permitted, unchallenged, to compete with those who, (constituting the large majority in every province of the Dominion) furnished milk which fully met the requirements of 3.5 per cent fat, and 12 per cent solids.

The work in subsequent bulletins consists of the analyses of market milks, interpreted in terms of the recommended standard.

The following table presents a synopsis of the results, and is important as showing how the adoption of a standard of 3.5 per cent fat and 12 per cent solids, affects the classification of market milk, as sold in Canada.

Number of Bulletin.	Number of Samples.	Genuine (per cent.)	Doubtful (per cent.)	Adulterated (per cent.)
17.....	105	59	19	22
21.....	124	64	26	10
28.....	133	78	7	15
32.....	184	63	22	15
43.....	251	72	21	7
53.....	178	65	24	11
61.....	74	73	23	4
64.....	29	72	11	17
74.....	131	79	18	3
80.....	182	64	32	4
93.....	224	71	19	10
121.....	332	57	29	14
	2,011	66	23	11

INSPECTION of 1907.

The work recorded in the tables now submitted, has been done upon 343 samples of whole milk, collected in July and August of this year. They represent all the inspectoral districts of Canada, with the exception of Manitoba.

I have applied to the interpretation of the analytical results the same standards for fat, total solids, and non-fat solids which my predecessor used in work of this kind. The following table shows, at a glance, the general conclusions.

Inspectoral district.	Total samples.	Genuine		Skimmed or partly skimmed.	Watered.	Doubtful.
		Normal.	Abnormal.			
Nova Scotia.....	30	21	4	1	4	0
P. E. Island.....	15	9	2	3	0	1
New Brunswick.....	30	22	5	1	2	0
Quebec.....	30	10	10	8	1	1
St. Hyacinthe.....	30	19	4	6	1	0
Montreal.....	30	9	20	1	0	0
Ottawa.....	30	19	11	0	0	0
Kingston.....	30	15	15	0	0	0
Toronto.....	30	3	10	7	8	2
London.....	28	15	13	0	0	0
Calgary.....	30	27	3	0	0	0
British Columbia.....	30	2	14	9	5	0
	343	171	111	36	21	4
		282				

The average percentage of genuine samples is 82, and is distinctly higher than at any previous inspection. The percentages of genuine samples for each district in regard to the total number of samples collected in that district, are as follows:—

District.	Samples examined.	Genuine.
Nova Scotia.....	30	83 per cent.
P. E. Island.....	15	73 "
New Brunswick.....	30	90 "
Quebec.....	26	69 "
St. Hyacinthe.....	30	77 "
Montreal.....	30	97 "
Ottawa.....	30	100 "
Kingston.....	30	100 "
Toronto.....	30	43 "
London.....	28	100 "
Calgary.....	30	100 "
British Columbia.....	30	53 "

It thus appears that the districts of Toronto and British Columbia stand out prominently as those in which the milk supply is of very low quality.

In conclusion, I am of opinion that the standard proposed by the late Chief Analyst in 1887, is a reasonable one, and can easily be met by any dairyman who pays proper attention to his herd. Nor can it be urged that this standard is inapplicable to the summer months. Evidence to the contrary is furnished not alone by the collection specially made for this purpose in 1889 (Bulletin No. 11), but by many subsequent collections, including that now reported.

It is, however, undeniable that some individual cows, and even some herds, yield milk containing less than 3.5 per cent fat. We have on record, ten herds (118 cows) whose milk averaged only 2.78 per cent, and one herd of 10 cows gave only 2.52 per cent fat.

These herds were in Toronto district (1889) and it will be noted that it is in Toronto district that the poorest showing occurs, in the present inspection. Dr. Ellis, Public Analyst at Toronto, has recorded his opinion that it is impossible to assert that a milk has been adulterated with water, if the *solids not-fat* exceed 8 per cent, or that it has been skimmed, if the fat exceeds 2.5 per cent. This opinion is certainly justified, if certain herds in the Toronto district may be included among normal milk producers.

In the face of what has been recorded I am compelled to admit that while I believe the standards for milk recommended by the late Chief Analyst to be reasonable, and already attained throughout the greater part of Canada, it is impracticable that they could be enforced by legal enactment over the whole of Canada. Without going so far as to say that the cow must herself be consulted in the matter of quality of milk, it is undeniable that the existence of many herds, whose average milk shows less than 3 per cent of fat, and less than 11.5 per cent total solids, makes the universal adoption of a three and a half per cent standard impossible.

It remains, however, quite possible for towns and cities to fix local standards for their own milk supplies. And this, it seems to me, is the proper course to be pursued, at least for the present. In an appendix, I have given a list of cities and towns, in which by-laws regulating the quality of milk which may be sold therein, already exist. That the low quality of milk now produced in certain districts, could be raised to the proposed standard quality, by proper care on the part of dairymen, goes without saying. The natural incentive to needed improvement is, quite evidently, that the cities and towns purchasing such milk, should insist upon their supplies having a fixed minimum value in fat and total solids. The local authorities must of course, be charged with the responsibility of seeing that such enactments are enforced.

The work which this department can do, in aiding the improvement of this most important food substance, is apparently limited to an occasional inspection, throughout the whole country, with a view to ascertaining the general condition of milk supplies. To fix a lower standard than 3.5 per cent fat, and 12 per cent solids, would be to give endorsement to a quality of milk lower than the average quality now produced. I have already given my reasons for believing that it would be impracticable at present to enforce a standard of 3.5 per cent fat, and 12 per cent total solids, over the whole Dominion.

It is to be noted, in conclusion, that the work herein summarized has regard to the nutritive value of milk, i.e. its value as a food. But there is another aspect of the milk problem which ought not to be ignored. The cleanliness of market milk is second only in importance to its nutritive value. Apart from the disgusting character of the impurities which must be present in milk, unless the most scrupulous attention is paid to its production, the danger from disease germs present in it is very great indeed. It is not going too far to say that (omitting desiccated foods) just in proportion to the nutrient value of the material, is its suitability as a medium for the development of microbial life. It is at once apparent that milk may become a most efficient propagating medium for disease germs. The following quotation is from a recent publication of the Bureau of Animal Industry, Washington, D.C.

"EVIDENCE THAT MILK IS A CAUSE OF DISEASE."

1. It has been shown by the most painstaking investigation, extending over a long period of years, that certain diseases in the animal are communicable through the medium of the milk, this being especially true of tuberculosis, foot-and-mouth disease, anthrax and cowpox; and that diseases like garget, gastro-enteritis and septic fevers in the cow will render the milk morbid to men.
2. It has been shown that animals which have fed on poisonous forage plants or have been treated with strong medicaments are disqualified from producing a pure or sound milk.
3. During the past twenty-five years there have been published in the different medical journals the histories of 195 epidemics of typhoid fever, 99 of scarlet fever and 36 of diphtheria, all traceable to the milk supply.

In the recent exhaustive investigation conducted by the highest health authority in this country, viz., the United States Bureau of Public Health and Marine-Hospital Service, the commission definitely traced 85 of the 866 cases of typhoid fever (about 10 per cent) in the District of Columbia to the use of infected milk.

4. It has been shown in a former report that in the District of Columbia about one fourth, and in the country at large about one sixth, of all the children born perish before the completion of the first year; that nearly one-half of the deaths in children under 1 year of age are caused by gastro-enteric diseases, chiefly infantile diarrhoea; and that of the 54,047 infantile deaths which have been investigated at home and abroad with reference to feeding, 86.6 per cent had been artificially fed, all of which points with more than mere suspicion to the fact that the morbid agent is introduced into the body with the food (cow's milk).

This phase of the milk question must evidently be left to local action.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,

Chief Analyst.

RECORD OF FOOD SAMPLES—MILK—ANALYZED BY INLAND

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1907.			<i>District of Nova Scotia—R. J. Waugh, Inspector.</i>		
Aug. 9	Milk. . .	33436	J. McDonald, Halifax, N.S.	1 pint,	4c.. G. H. Madill, Milford, N.S.
" 9	"	33437	H. B. Blois "	1 "	4c.. W. Bryson, Hildon, N.S.
" 9	"	33438	W. Taylor "	1 "	4c.. E. Tupper, Hildon, N.S.
" 9	"	33439	J. M. Flemming "	1 "	4c.. A. Fisher, Alton, N.S.
" 9	"	33440	A. L. Theakston "	1 "	4c.. G. Withrow, Shubenacadie, N.S.
" 9	"	33441	G. H. Kent "	1 "	4c.. W. R. McPhee, McKay's Siding, N.S.
" 9	"	33442	Mrs. Hurley "	1 "	4c.. Mr. Harvy, Halifax, N.S.
" 9	"	33443	Mrs. A. Cahill "	1 "	4c.. Mr. Clark, City Milk Co., Halifax, N.S.
" 9	"	33444	Mrs. Grant "	1 "	4c.. Scotia Pure Milk Co., City.
" 9	"	33445	Mrs. A. Salkus "	1 "	4c.. G. H. Kent, Halifax, N.S.
" 10	"	33446	Scotia Pure Milk Co., Halifax, N.S. .	1 "	4c.. Vendors
" 10	"	33447	G. D. Hogg "	1 "	4c.. W. Withrow, Elm-dale, N.S.
" 10	"	33448	P. A. Marryatt, North-west Ave., Halifax, N.S.	1 "	4c.. J. Keddy, Harrietfield, N.S.
" 12	"	33449	Mrs. O. Hondley, Dartmouth, N.S. .	1 "	4c.. Mr. Ritchie, Cole Harbour Road, N.S.
" 12	"	33450	Mrs. Bellefontaine "	1 "	4c.. Mr. Ritchie, Cole Harbour Road, N.S.
" 12	"	33451	J. R. Grant "	1 "	4c.. Vendor
" 12	"	33452	W. E. Ford, Halifax, N.S.	1 "	4c.. Mr. Currie, Halifax, N.S.
" 12	"	33453	Jas. Hogan "	1 "	4c.. O. Upham, Halifax, N.S.
" 12	"	33454	P. Lowri "	1 "	4c.. A. Innis, Dartmouth, N.S.
" 14	"	33455	H. A. Boyd, Yarmouth, N.S.	1 "	4c.. Not known
" 14	"	33456	G. H. Murphy "	1 "	4c.. Vendor
" 15	"	33457	F. W. Wickwire, Kentville, N.S. . . .	1 "	4c.. "
" 15	"	33458	Capt. Allen "	1 "	4c.. "
" 15	"	33459	H. Eagles, Kentville, N.S.	1 "	4c.. "
" 15	"	33460	J. W. Pyke, Kentville, N.S.	1 "	4c.. Not known
" 16	"	33461	R. W. Mearns, Windsor, N.S.	1 "	4c.. Vendor
" 16	"	33462	J. Muller, Windsor, N.S.	1 "	4c.. "
" 16	"	33463	C. Dill, Windsor, N.S.	1 "	4c.. "

REVENUE DEPARTMENT LABORATORY AND PUBLIC ANALYST.

Inspector's Report.	RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks.
	Specific Gravity at 15° C.	Water.	Butter Fat.	Other Solids.	Total Solids.			
		p. c.	p. c.	p. c.	p. c.			
Taken from can in delivery.	1.0309	87.16	4.28	8.56	12.84	M. Bowman....	33436	Genuine.
" " ..	1.0314	87.47	3.91	8.62	12.53	"	33437	"
" " ..	1.0326	87.74	3.41	8.85	12.26	"	33438	"
" " ..	1.0278	86.75	5.31	7.94	13.25	"	33439	"
" " ..	1.0307	86.86	4.59	8.55	13.14	"	33440	"
" " ..	1.0311	87.53	3.98	8.54	12.47	"	33441	"
" " ..	1.0311	87.53	3.98	8.54	12.47	"	33442	"
The vendor is a shop-keeper.	1.0295	86.25	5.37	8.38	13.75	"	33443	Genuine, under average in total solids.
" " ..	1.0312	88.72	3.18	8.10	11.28	"	33444	Partly skimmed.
Sold as pasteurized milk.	1.0314	89.21	2.65	8.14	10.79	"	33445	Watered.
The vendor is a shop-keeper.	1.0284	89.33	2.95	7.72	10.67	"	33446	Genuine, under average in total solids.
Pasteurized by vendors.	1.0308	88.45	3.25	8.30	11.55	"	33447	Genuine.
Sample taken from can in delivery wagon.	1.0303	86.41	5.06	8.53	13.59	"	33448	Watered.
" " ..	1.0227	90.03	3.66	6.31	9.97	"	33449	"
The vendor is a shop-keeper.	1.0269	89.32	3.45	7.23	10.68	"	33450	Genuine.
" " ..	1.0243	85.39	7.27	7.34	14.61	"	33451	"
Taken from delivery wagon.	1.0329	86.81	4.15	9.04	13.19	"	33452	Genuine, under average in solids not fat.
The vendor is a shop-keeper.	1.0286	88.44	3.59	7.97	11.56	"	33453	Genuine.
" " ..	1.0310	87.01	4.40	8.59	12.99	"	33454	Genuine, under average in fat.
" " ..	1.0322	88.31	3.21	8.48	11.69	"	33455	Genuine.
Sample taken from can in delivery wagon.	1.0346	85.81	4.87	9.32	14.19	"	33456	"
" " ..	1.0325	86.15	4.85	9.00	13.85	"	33457	"
" " ..	1.0307	87.42	4.11	8.47	12.58	"	33458	"
" " ..	1.0326	87.41	3.70	8.89	12.59	"	33459	Watered.
Taken from delivery wagon.	1.0278	89.86	3.31	6.83	10.14	"	33460	Genuine.
The vendor is a shop-keeper.	1.0327	86.63	4.71	8.66	13.37	"	33461	"
Taken from delivery wagon.	1.0325	87.09	4.00	8.91	12.91	"	33462	"
Taken from delivery wagon.	1.0270	86.63	5.46	7.91	13.37	"	33463	"
Taken from delivery wagon.	1.0316	86.46	4.82	8.72	13.54	"	33463	"

RECORD OF FOOD SAMPLES—MILK—ANALYZED BY

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
<i>District of Nova Scotia—R. J. Waugh, Inspector—Concluded.</i>					
1907.					
Aug. 16	Milk.....	33464	T. M. Currie, Windsor, N.S.....	1 pint, 4c..	Vendor
" 16	"	33465	W. Livingstone, Windsor, NS.....	1 " 4c..	T. M. Currie, Windsor
<i>District of Prince Edward Island—T. Moore, Inspector.</i>					
July 25	Milk.....	31124	A. Mutch, Hopeton.....	1 pint, 3c..	Vendor
" 27	"	31125	T. R. Enman, Charlottetown Royalty	1 " 3c..	"
" 27	"	31126	Hamond Kelley, Southport.....	1 " 3c..	"
" 30	"	31127	Frank Conroy, Souris.....	1 " 3c..	P. McIsaac, Souris Royalty.
Aug. 4	"	31128	Rogers Farquharson, Lot 48, Southport.	1 " 3c..	Vendor
" 4	"	31129	A. R. McKay, St. Peters Road ...	1 " 3c..	"
" 4	"	31130	Miller Matheson, Charlottetown Royalty.	1 " 3c..	"
" 7	"	31131	G. M. Price, Summerside.....	1 " 3c..	"
" 7	"	31132	L. J. Pickering, Summerside	1 " 3c..	"
" 7	"	31133	Joseph McNeill, Summerside.....	1 " 3c..	"
" 7	"	31134	J. W. Callbeck, Summerside.....	1 " 3c..	"
" 7	"	31135	Thomas Glover, Summerside.....	1 " 3c..	"
" 8	"	31136	W. Wheatley, East Royalty	1 " 3c..	"
" 8	"	31137	Victor McMillan, Charlottetown Royalty.	1 " 3c..	"
" 8	"	31138	Cameron & White, Charlottetown....	1 " 3c..	P. Mutch, Lot 48. ...
<i>District of New Brunswick—J. E. Ferguson, Inspector.</i>					
" 1	"	29534	Timothy Desmond, Loch Lomond Road, St. John Co., N.B.	½ " 5c..	Vendor
" 1	"	29535	Jas Beye, Black River Road. St. John Co., N.B.	½ " 5c..	"
" 1	"	29536	S. A. Carpenter, Manawagonish Road, St. John Co., N.B.	1½ " 9c..	"
" 1	"	29537	Alderbrook Dairy Co., 12 Sydney St., St. John, N.B.	½ " 5c..	W. V. Darling, Jubilee Sta., King's Co. N.B
" 1	"	29538	Jas. W. Brogan, 10 Brussell St., St. John, N.B.	½ " 6c..	M. Gibson, Red Head. St. John Co., N.B.
" 2	"	29539	T. M. Davidson's Dairy, Little River Road, St. John Co., N.B.	1 " 5c..	Vendor
" 2	"	29540	Jas. Macaulay, Cor. Queen and Wentworth Sts, St. John, N.B.	1 " 7c..	A. E. Macaulay. St. John N.B.

INLAND REVENUE DEPARTMENT LABORATORY—Continued.

Inspector's Report.	RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks.
	Specific Gravity at 15° C.	Water.	Butter fat.	Other Solids.	Total Solids.			
		p. c.	p. c.	p. c.	p. c.			
Taken from delivery wagon. The vendor is a shop-keeper.	1-0317	86.62	4.79	8.59	13.39	M. Bowman...	33464	Genuine.
	1-0339	87.50	3.60	8.90	12.50	"	33465	"
	1-0344	88.32	2.61	9.07	11.68	M. Bowman...	31124	Partly skimmed.
	1-0321	87.88	3.41	8.71	12.12	"	31125	Genuine.
	1-0324	85.29	4.71	9.00	13.71	"	31126	"
	1-0343	88.54	2.54	8.92	11.46	"	31127	Partly skimmed.
	1-0311	86.82	4.43	8.63	13.11	"	31128	Genuine.
	1-0324	86.24	4.63	9.11	13.76	"	31129	"
	1-0312	87.91	3.58	8.51	12.09	"	31130	"
	1-0318	82.96	9.27	7.77	17.04	"	31131	"
	1-0324	88.37	3.11	8.52	11.63	"	31132	Genuine. Under average in fat.
	1-0334	86.99	3.89	9.12	13.01	"	31133	Genuine.
	1-0335	87.85	3.26	8.89	12.15	"	31134	Genuine. Under average in fat.
	1-0303	87.29	4.30	8.41	12.71	"	31135	Genuine.
	1-0330	87.27	3.73	9.00	12.73	"	31136	"
1-0329	88.70	2.81	8.49	11.30	"	31137	Partly skimmed.	
1-0333	88.56	2.92	8.52	11.44	"	31138	Doubtful as to skimming.	
Sample taken from milk wagon on street while serving customers.	1-0318	87.91	3.44	8.65	12.09	"	29534	Genuine.
	1-0298	86.84	4.79	8.37	13.16	"	29535	"
	1-0276	88.20	4.12	7.68	11.80	"	29536	Genuine; under average in solids not fat.
	1-0298	86.61	5.00	8.39	13.39	"	29537	Genuine.
	1-0340	87.73	3.91	8.36	12.27	"	29538	"
Sample taken from milk wagon on street while serving customers.	1-0308	86.97	4.47	8.56	13.03	"	29539	"
	1-0295	87.85	4.00	8.15	12.15	"	29540	Genuine; under average in solids not fat.

RECORD OF FOOD SAMPLES—MILK—ANALYZED BY

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1907.			<i>District of New Brunswick—J. C. Ferguson, Inspector—Con.</i>		
Aug. 2	Milk.	29541	H. M. Floyd, 124 Queen St., St. John, N.B.	1 Pint 7c..	Hanford McKnight, Apohaqui, King's Co., N.B.
" 2	"	29542	W. R. Small, cor. Gornian and Queen St., St. John, N.B.	1 " 7c..	Sussex Milk Co., 38 Sydney St., St. John, N.B.
" 3	"	29543	C. D. Harrington, Milledgeville, St. John Co., N.B.	1 "	Vendor
" 3	"	29544	M. H. Green, Milledgeville, St. John, N.B.	1 " 5c..	"
" 3	"	29545	Chas. N. Huggard, 165 Main St., St. John, N.B.	1 " 7c..	Alfred Freeze, Penobscot, King's Co., N.B.
" 6	"	29546	Sussex Milk Co., Sussex, King's Co., N.B.	1 " 5c..	McIntyre Bros, Sussex Parish, King's Co., N.B.
" 6	"	29547	Sussex Milk Co., Sussex, King's Co., N.B.	1 " 5c..	H. T. Hays, Sussex Parish, King's Co., N.B.
" 8	"	29548	Moncton Pasteurized Milk Co., Moncton, N.B.	1 " 5c..	Moncton Pasteurized Milk Co., Lewisville, Westmoreland, Co., N.B.
" 8	"	29549	Geo. O. Stratton, 293 Main St., Moncton, N.B.	1 " 5c..	"
" 9	"	29550	Keating Bros., Chatham, N.B.	1 " 5c..	Vendor
" 9	"	29551	Geo. E. Fisher, Chatham, N.B.	1 " 5c..	"
" 12	"	29552	William Rogers, Bathurst Village, N.B.	1 " 5c..	"
" 12	"	29553	Mrs. Thos. Kennah, St. George St., Bathurst, N.B.	1 " 5c..	"
" 20	"	29554	Clifford Thompson, Old Ridge, St. Stephen, N.B.	1 " 6c..	"
" 20	"	29555	Richard Thomas, Box 272, St. Stephen, N.B.	1 " 6c..	"
" 20	"	29556	G. K. Thomas, Stephen, N.B.	1 " 6c..	"
" 22	"	29557	Walter McFarlane, King St., Fredericton, N.B.	1 " 5c..	Vendor, Nashwaaksis, York Co., N.B.
" 22	"	29558	C. J. Bodkin, King St., Fredericton, N.B.	1 " 5c..	Robert M. Gay, Kingsclear, York Co., N.B.
" 22	"	29559	A. D. Gunter, King St., Fredericton, N.B.	1 " 5c..	G. W. Bowder, Nashwaaksis, York Co., N.B.
" 22	"	29560	Fred. P. Robinson, Regent St., Fredericton, N.B.	1 " 5c..	Vendor, Nashwaaksis, York Co., N.B.
" 24	"	29561	Cyrus Vanwart, Woodstock, N.B.	1 " 5c..	Vendor
" 26	"	29562	Jno. R. Graham, Grand Falls, Victoria Co., N.B.	1 " 6c..	"
" 26	"	29563	Ward B. Burpee, Grand Falls, Victoria Co., N.B.	1 " 6c..	"

INLAND REVENUE DEPARTMENT LABORATORY—Continued.

Inspector's Report.	RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks.
	Specific Gravity at 15° C.	Water.	Butter Fat.	Other Solids.	Total Solids.			
		p.c.	p.c.	p.c.	p.c.			
.....	1.0314	88.00	3.45	8.55	12.00	M. Rowman....	29541	Genuine.
.....	1.0319	87.40	3.86	8.74	12.60	" "	29542	Genuine.
Sample taken from milk wagon on street	1.0279	88.76	3.60	7.64	11.24	" "	29543	Watered.
" "	1.0282	88.19	3.79	8.02	11.81	" " ..	29544	Genuine; under average in solids not fat.
.....	1.0306	88.37	3.31	8.32	11.93	" "	29545	" "
.....	1.0279	88.31	3.07	7.62	10.69	" "	29546	Watered.
.....	1.0305	87.76	3.86	8.38	12.24	" "	29547	Genuine.
Milk is pasteurized. Taken from milk wagon on street while serving customers.	1.0329	88.18	3.41	8.41	11.82	" "	29548	"
Taken from large can in vendor's store.	1.0337	88.46	2.98	8.56	11.54	" "	29549	Probably genuine, under average in fat.
Taken from milk wagon on street while serving customers.	1.0293	86.65	5.06	8.29	13.35	" "	29550	Genuine.
" "	1.0298	88.23	3.57	8.20	11.77	" " ..	29551	Genuine; under average in solids not fat.
" "	1.0320	87.64	3.63	8.73	12.36	" "	29552	Genuine.
.....	1.0316	85.54	5.53	8.98	14.46	" "	29553	"
Taken from milk wagon on street while serving customers.	1.0320	87.73	3.73	8.54	12.27	" " ...	29554	"
" "	1.0298	86.05	5.42	8.53	13.95	" " ...	29555	"
" "	1.0294	86.69	5.09	8.22	13.31	" "	29556	"
Sample taken from large can in wagon while delivering milk.	1.0312	85.69	5.67	8.64	14.31	" "	29557	Genuine.
Sample taken from large can in wagon while delivering milk to dairy depot.	1.0327	87.57	3.94	8.49	12.43	" "	29558	"
Sample from large can in delivery wagon.	1.0321	87.71	3.78	8.51	12.29	" "	29559	"
" " ..	1.0300	83.70	7.56	8.74	16.30	" "	29560	"
" " ..	1.0319	86.06	4.88	9.06	13.94	" " ...	29561	"
" " ..	1.0327	88.18	2.83	8.99	11.82	" "	29562	Partly skimmed.
" " ..	1.0320	86.87	4.00	9.13	13.13	" "	29563	Genuine.

RECORD OF FOOD SAMPLES—MILK—ANALYZED BY

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cont.	Name and Address of Manufacturer or Furnisher.
1907			<i>District of Quebec— E. Beland, Inspector.</i>		
July 2	Milk	26274	Moise Michaud, 371 Colomb.	1 pint,	5c.. Vendor
" 25	"	26275	Onézime Turgeon, 193 Latour-l.	1 "	5c.. "
" 25	"	26276	Charles Julien	1 "	4c.. "
" 25	"	27277	Cyrile Auger, 129 Caron	1 "	4c.. "
" 25	"	26278	Albert Dubois, 1141½ St. Valier	1 "	4c.. "
" 25	"	26279	Ozariate Bégin, 8 Kirouack	1 "	5c.. "
" 25	"	26280	Napoleon Ruel, 52 Victoria	1 "	4c.. "
" 25	"	26281	Charles Dorion, Charlesbourg Trecard	1 "	4c.. "
" 25	"	26282	Louis Labranche, Limoulu	1 "	4c.. "
" 25	"	26283	François Pouliot, 59 St. Luc	1 "	5c.. "
" 25	"	26284	Narcisse Turgeon, 27 Rigotville	1 "	5c.. "
" 25	"	26285	Charles Manger, St. Ambroise	1 "	5c.. "
" 25	"	26286	Alphonse Légaré, 167 St. Luc	1 "	5c.. "
" 25	"	26287	Louis Boucher, 309 Colomb	1 "	5c.. "
" 25	"	26288	Narcisse Allard, Ancienne Lorette	1 "	5c.. "
" 25	"	25289	Achilles Turgeon, 229 D'Aiguillon	1 "	5c.. "
" 25	"	26290	Jean Bouchard, Stadacona	1 "	5c.. "
" 25	"	26291	Alphonse Paradis, Charlesbourg	1 "	5c.. "
" 25	"	26292	Alexandre Vilnouve, Charlesbourg	1 "	5c.. "
" 25	"	26293	Arthur Parent, Charlesbourg Ouest	1 "	5c.. "
" 25	"	26294	François Reneaud, St. Ambroise	1 "	5c.. "
" 25	"	26295	Joseph Reneaud	1 "	5c.. "
" 25	"	26296	J. Bt. Vezina	1 "	5c.. "
" 25	"	26297	Arcade Caouette, 970 St. Valier	1 "	5c.. "
" 25	"	26298	Wilbrod Plamondon, 205 rue Massue	1 "	5c.. "
" 25	"	26299	Pierre Lepire, Charlesbourg	1 "	5c.. "
" 25	"	26300	J. Bt. Thibault, St. Ambroise	1 "	5c.. "
" 25	"	26301	Raymond Bussière, St. Malo	1 "	5c.. "
" 25	"	26302	J. Bt. Carrier, Petite Rivière	1 "	5c.. "
" 25	"	26303	Ignace, Verret	1 "	5c.. "

INLAND REVENUE DEPARTMENT LABORATORY—Continued.

Inspector's Report.	RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks.
	Specific Gravity at 15° C.	Water.	Butter Fat.	Other Solids.	Total Solids.			
	p. c.	p. c.	p. c.	p. c.	p. c.			
Sample from large can in delivery wagon.	1·0317	88·21	3·00	8·79	11·79	M. Bowman	26274	Genuine, below average in fat.
.....	1·0328	87·83	3·40	8·78	12·18	" "	26275	Genuine, under average in fat.
Broken duplicate.	1·0317	87·04	4·03	8·93	12·96	" "	26276	Genuine.
.....	1·0306	87·78	3·33	8·80	12·22	" "	26277	Genuine, under average in fat.
.....	1·0306	88·26	3·07	8·88	11·74	" "	26278	" "
.....	1·0317	87·77	3·75	8·49	12·24	" "	26279	Genuine.
.....	1·0317	87·93	4·23	7·84	12·07	" "	26280	Genuine, under average in non-fat solids.
.....	1·0306	87·53	4·67	7·80	12·47	" "	26281	" "
.....	1·0306	88·15	3·06	8·77	11·85	" "	26282	Genuine, under average in fat.
.....	1·0296	86·97	4·06	8·97	13·03	" "	26283	Genuine.
.....	1·0328	86·80	4·00	9·11	13·20	" "	26284	"
.....	1·0306	86·87	4·14	8·99	13·13	" "	26285	"
Broken duplicate.	1·0349	88·37	2·70	8·93	11·63	" "	26286	Partly skimmed.
" " ..	1·0340	89·10	2·28	8·61	10·80	" "	26287	" "
" " ..	1·0320	88·63	2·61	8·76	11·37	" "	26288	" "
.....	1·0320	88·85	2·86	8·28	11·14	" "	26289	Probably partly skimmed.
One bottle broken.	1·032	88·11	3·54	8·35	11·89	" "	26290	Genuine; slightly below average in total solids
.....	1·0317	87·13	4·20	8·67	12·87	" "	26291	Genuine.
.....	1·0320	89·04	2·69	8·26	10·95	" "	26292	Probably partly skimmed.
.....	1·033	88·33	3·02	8·64	11·66	" "	26293	If genuine; under average in fat.
.....	1·030	89·77	3·19	7·04	10·23	" "	26294	Watered.
.....	1·0319	87·15	3·98	8·87	12·85	" "	26295	Genuine.
.....	1·0330	88·07	3·54	8·30	11·93	" "	26296	"
One bottle broken.	1·036	88·74	2·54	8·72	11·26	" "	26297	Probably partly skimmed.
.....	1·033	87·96	3·19	8·85	12·04	" "	26298	Genuine; under average in fat.
.....	1·033	88·54	2·95	8·49	11·44	" "	26299	Probably partly skimmed.
.....	1·033	87·71	3·87	8·41	12·29	" "	26300	Genuine.
One bottle broken.	1·034	88·51	2·86	8·64	11·49	" "	26301	Probably partly skimmed.
Both samples broken.	.....	.....	.....	.....	.....	" "	26302	.....
.....	1·0319	87·55	3·52	8·93	12·45	" "	26303	Genuine.

RECORD OF FOOD SAMPLES—MILK—ANALYZED BY

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Quant.	Name and Address of Manufacturer or Furnisher.
<i>District of St. Hyacinthe— J. O. Rouleau, Inspector.</i>					
1907.					
Aug. 1	Milk..	61	W. Garceau, Drummondville.....	1 pint,	3c.. Vendor
" 1	"	62	" "	1 "	3c.. J. B. Landry, Drummondville.
" 2	"	63	Elie Lemire, Nicolet.....	1 "	Vendor
" 2	"	64	Nap. Desilet "	1 "	.....
" 2	"	65	Molais Guilbert "	1 "	.....
" 6	"	66	Jos. Lay, Richmond... ..	1 "	Vendor
" 8	"	67	Eug. Garneau, Thetford.....	1 "	3c.. "
" 8	"	68	Fred Dodier, Thetford... ..	1 "	3c.. Vendor.....
" 10	"	69	Miss Morais, Lennoxville	1 "	"
" 10	"	70	Louis Bergeron, Sherbrooke... ..	1 "	"
" 10	"	71	J. A. Benoit, Sherbrooke.....	1 "	Several milkmen.....
" 10	"	72	M. Robertson, Sherbrooke.....	1 "	" "
" 10	"	73	W. J. Hunt, Sherbrooke	1 "	Vendor.....
" 14	"	74	H. Lemaire, St. Jean, Que....	1 "	V. Richard, St. Jean..
" 15	"	75	E. Martel, Farnham.....	1 "	Vendor
" 15	"	76	S. Robert, Farnham.....	1 "	"
" 16	"	77	D. Riendeau, Granby.. ..	1 "	3c.. "
" 16	"	78	S. R. Webster, Granby.....	1 "	3c. Lewis Doe, Granby...
" 16	"	79	Thos. Hart, Granby.	1 "	3c.. Vendor.....
" 20	"	80	V. Bardier, St. Anne de Sorel.....	1 "	3c.. "
" 20	"	81	N. Crepeau, Sorel.....	1 "	3c.. "
" 20	"	82	J. B. Guevremont, Sorel	1 "	3c.. "
" 20	"	83	P. Mandeville, Sorel.....	1 "	3c.. "
" 20	"	84	N. Salvail, St. Anne de Sorel.....	1 "	3c.. "
" 20	"	85	P. Sabourin, St. Hyacinthe.....	1 "	3c.. "
" 20	"	86	P. Sabourin, St. Hyacinthe.. ..	1 "	3c.. "
" 20	"	87	P. Duhamel, St. Hyacinthe.....	1 "	3c.. Alex. Dauphinais, St. Hyacinthe.
" 21	"	88	W. Chapdelaine, St Hyacinthe.....	1 "	3c.. Vendor
" 23	"	89	Geo. Hulburd, Sweetaburg	1 "	free "
" 29	"	90	F. X. Laplante, St. Hyacinthe.....	1 "	3c.. J. B. Laplante, St. Hyacinthe.

INLAND REVENUE DEPARTMENT LABORATORY—Continued.

Inspector's Report.	RESULTS OF ANALYSIS.				Name of Analyst.	No. of Sample.	Remarks.	
	Specific Gravity at 15° C.	Water.	Butter Fat.	Other Solids.				Total Solids.
		p. c.	p. c.	p. c.				p. c.
.....	1.032	86.51	2.57	8.92	11.40	M. Bowman....	61	Partly skimmed.
.....	1.032	87.14	3.77	9.09	12.87	" "	62	Genuine.
.....	1.031	87.23	3.80	8.97	12.77	" "	63	"
.....	1.032	87.97	3.02	9.01	12.03	" "	64	Genuine; under average in fat.
.....	1.031	87.15	3.80	8.96	12.85	" "	65	Genuine.
.....	1.033	86.86	2.48	8.66	11.14	" "	66	Partly skimmed.
.....	1.031	87.22	3.90	8.68	12.78	" "	67	Genuine.
.....	1.032	86.98	3.96	9.06	13.02	" "	68	Genuine.
.....	1.030	86.88	4.19	8.98	13.13	" "	69	"
.....	1.033	86.34	2.46	9.20	11.66	" "	70	Partly skimmed.
.....	1.032	86.39	4.19	9.42	13.61	" "	71	Genuine.
Only one sample..	1.028	88.82	3.58	7.00	11.19	" "	72	Watered.
.....	1.031	97.52	3.63	8.85	12.48	" "	73	Genuine.
.....	1.032	86.66	2.56	9.78	11.34	" "	74	Partly skimmed.
.....	1.032	86.59	3.84	8.56	11.41	" "	75	" "
.....	1.031	87.25	4.05	8.70	12.75	" "	76	Genuine.
.....	1.033	86.68	4.01	9.31	13.32	" "	77	"
.....	1.032	87.66	3.25	8.99	12.34	" "	78	" under avg. in fat.
.....	1.033	86.38	4.06	9.56	13.62	" "	79	"
.....	1.0314	87.01	3.69	9.30	12.99	" "	80	"
.....	1.032	86.54	2.23	8.53	11.46	" "	81	Probably partly skim'd
.....	1.0304	87.28	3.42	9.30	12.72	" "	82	Gen., below avg. in fat.
.....	1.0314	87.41	3.31	9.28	12.59	" "	83	" "
.....	1.0304	87.15	3.76	9.08	11.84	" "	84	Genuine.
.....	1.0314	87.03	3.52	9.35	12.87	" "	85	"
.....	1.0324	86.55	4.02	9.43	13.45	" "	86	"
.....	1.0314	86.86	3.71	9.33	13.04	" "	87	"
.....	1.0304	87.11	3.63	9.16	12.79	" "	88	"
.....	1.0324	86.25	4.33	9.32	13.65	" "	89	"
.....	1.0304	87.29	3.68	9.03	12.71	" "	90	"

RECORD OF FOOD SAMPLES—MILK—ANALYZED BY

Date of Collection.	Nature of Sample.	Number of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
<i>District of Montreal—J. J. Costigan, Inspector.</i>					
1907.					
July 29	Milk.	32846	Ernest Cousins, Montreal, P.Q.	1 pint, 4c.	
" 29	"	32847	A. Hobbs, St. Laurent, P.Q.	"	
" 29	"	33848	N. Robinovitch, 1064 St. Lawrence, Montreal.	"	
" 29	"	32849	F. L. Mott, 147 Abbott Ave., Westmount.	"	
" 29	"	32850	O. L. Jasmin, St. Laurent	"	
" 29	"	32851	J. Hannah, Youville.	"	
" 29	"	32852	J. McEwan, 1073 Esplanade, Ville St. Louis.	"	
" 29	"	32853	H. Groulx, St. Laurent, P.Q.	"	
" 29	"	32854	John Duncan & Co., Drummond St., Montreal.	"	
" 29	"	32855	A. Muir, Cote St. Paul.	"	
" 29	"	32856	R. Gordon, 90 Fairmount, Ville St. Louis.	"	
" 29	"	32857	John Huckle, 1680 St. Urbain, Ville St. Louis.	"	
" 29	"	32858	Standard Dairy Co., Laganchetière st.	"	
" 29	"	32859	R. Nicholson, Lachine Locks... ..	"	
" 29	"	32860	C. Muir, 371 Clark, Ville St. Louis..	"	
" 29	"	32861	A. C. Struthers, 890 Esplanade, Ville St. Louis.	"	
" 29	"	32862	W. J. Hodge, St. Laurent, P.Q.	"	
" 29	"	32863	Geo. Wilson, 686 Albert, Montreal... ..	"	
" 29	"	32864	J. Varnier, Verdun.	"	
" 29	"	32865	J. C. Hebert, 4 Fairmount, Ville St. Louis.	"	
Aug. 13	"	32866	E. Lajeunesse, 27 Pontiac, Montreal.	"	
" 13	"	32867	John McWillie, Youville.	"	
" 13	"	32868	Jno. Staines, 1746 St. Urbain, Montreal.	"	
" 13	"	32869	Emile Guay, 1322 St. Dominique, Montreal.	"	

INLAND REVENUE DEPARTMENT LABORATORY—Continued.

Inspector's Report.	RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks.
	Specific Gravity at 15° C.	Water.	Butter Fat.	Other Solids.	Total Solids.			
		p. c.	p. c.	p. c.	p. c.			
All of these vendors are duly licensed milkmen for the city of Montreal. Samples were taken from the different wagons whilst on round.	1-0325	87.19	4.10	8.71	12.82	M. Bowman....	32846	Genuine.
" " ..	1-0315	88.01	3.52	8.48	11.99	" "	32847	"
" " ..	1-036	88.08	3.24	8.67	11.92	" "	32848	" below average in fat.
" " ..	1-0336	87.48	3.68	8.84	12.52	" "	32849	Genuine.
" " ..	1-0293	88.04	3.81	8.10	11.91	" "	32850	" under average in total solids.
" " ..	1-0333	87.84	3.16	8.99	12.15	" "	32851	Genuine; under average in fat.
" " ..	1-0322	87.74	3.66	8.70	12.26	" "	32852	Genuine.
" " ..	1-0322	88.16	3.29	8.55	11.85	" "	32853	" under average in fat.
Put up in pint bottle.	1-0322	88.15	3.31	8.54	11.85	" "	32854	Genuine; under average in fat.
.....	1-0312	87.96	3.54	8.51	12.04	" "	32855	Genuine.
.....	1-038	87.66	3.66	8.68	12.34	" "	32856	"
All of these vendors are licensed for city of Montreal with exception of Sample No. 32864 who is licensed for Verdun alone. All samples taken from wagons whilst on round.	1-034	87.43	3.38	9.19	12.57	" "	32857	" under average in fat.
" " ..	1-0276	88.34	3.62	7.54	11.16	" "	32858	Probably genuine; low in non-fat solids.
" " ..	1-084	88.19	3.13	8.68	11.81	" "	32859	Probably genuine; below average in fat.
" " ..	1-0293	88.58	3.49	7.92	11.42	" "	32860	Genuine; under average in non-fat solids.
" " ..	1-033	88.50	3.33	8.17	11.50	" "	32861	Genuine; below average in total solids.
" " ..	1-0322	88.00	3.26	8.64	11.91	" "	32862	Genuine; under average in fat.
" " ..	1-0333	87.94	3.28	8.78	12.06	" "	32863	Genuine; under average in fat.
" " ..	1-034	88.28	3.23	8.40	11.72	" "	32864	Genuine; under average in fat.
" " ..	1-0312	86.67	4.72	8.61	13.32	" "	32865	Genuine.
" " ..	1-032	88.19	3.43	8.35	11.61	" "	32866	" below average in total solids.
" " ..	1-028	88.36	3.80	7.84	11.64	" "	32867	Genuine; under average in non-fat solids.
" " ..	1-0303	87.51	3.82	8.67	12.49	" "	32868	Genuine.
.....	1-032	87.98	3.29	8.72	12.01	" "	32869	Genuine, below average in fat.

RECORD OF FOOD SAMPLES—MILK—ANALYZED BY

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1907.			<i>District of Montreal—J. J. Costigan, Inspector—Con.</i>		
Aug. 13	Milk..	32870	Vernon Dairy Co., 199a Laval Ave., Montreal.	1 pint,	4c..
" 13	"	32871	R. Lackovitski, 181 Cadieux.....	"	"
" 13	"	32872	Guy & Frere, Longue Point.....	"	"
" 13	"	32873	Louis Katzman, 214 St. George.	"	"
" 13	"	32874	Joseph Crevier, St. Laurent, P.Q.....	"	"
" 13	"	32875	Edward Nockle, 1513 St. Hubert, Montreal.	"	"
" 1	"	34041	<i>District of Ottawa—J. A. Rickey, Inspector.</i> Geo. W. Hicks, Ottawa.....	24 oz.,	5c.. J. & Mrs. A. Moffett, and T. Bain, Merivale. Vendor
" 1	"	34042	H. Macartney, Billings Bridge.	"	"
" 1	"	34043	Mockett Bros., Gloucester.....	"	"
" 1	"	34044	Graham Bros., Britannia.....	"	"
" 1	"	34045	R. Magee, Britannia.....	"	"
" 1	"	34046	Wm. Gladman.....	"	"
" 1	"	34047	E. Honeywell, Westboro.....	"	"
" 1	"	34048	Jas. Sorley.....	"	"
" 1	"	34049	J. D. Anderson, Gloucester.....	"	"
" 2	"	34050	R. Johnson, Hull.....	"	Wm. Armstrong, Hull.
" 2	"	34051	F. Desrochers, Hull.....	"	Vendor
" 2	"	34052	Jno. G. Rouleau, Hull.....	"	"
" 2	"	34053	Jno. R. Armstrong, Hull.....	"	"
" 2	"	34054	Thos. Dennison, Hull.....	"	"
" 3	"	34055	Ottawa Dairy Co., Ottawa.....	"	Several dairymen.....
" 6.	"	34056	Wm. Duffy, Carleton Place.....	24 oz.,	6c.. Vendor
" 6.	"	34057	Marion Stearns, "	"	6c.. "
" 6.	"	34058	C. W. Young, "	"	6c.. "
" 6.	"	34059	J. Hendry, "	"	6c.. "
" 6.	"	34060	Salmon Bros., Smith's Falls.....	"	6c.. "
" 6.	"	34061	Beckwith Dairy, "	"	6c.. "
" 6.	"	34062	Jas. Edmons, "	"	6c.. "
" 6.	"	34063	J. L. Davis, "	"	6c.. "
" 6.	"	34064	Beckwith Dairy, "	"	6c.. "
" 6.	"	34065	Coughlin Bros., "	"	6c.. "
" 6.	"	34066	Beckwith Dairy, "	"	6c.. "

INLAND REVENUE DEPARTMENT LABORATORY.—Continued.

Inspector's Report.	RESULT OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks.
	Specific Gravity at 15° C.	Water.	Butter Fat.	Other Solids.	Total Solids.			
		p.c.	p.c.	p.c.	p.c.			
.....	1·032	88·53	3·28	8·19	11·47	M. Bowman....	32870	Genuine, below average in fat.
.....	1·033	88·70	2·81	8·48	11·29	" "	32871	Partly skimmed.
.....	1·030	88·80	2·33	8·87	11·20	" "	32872	Doubtful, below average in fat.
.....	1·0306	87·47	4·06	8·45	12·53	" "	32873	Genuine.
.....	1·0288	88·48	3·61	7·91	11·52	" "	32874	" under average in non-fat solids.
.....	1·0301	88·06	3·90	8·04	11·94	" "	32875	" "
Taken from delivery wagon on street.	1·032	89·03	2·87	8·09	10·97	" "	34041	Genuine, under average in total solids.
" " ..	1·0306	87·80	3·58	8·62	12·19	" "	34042	Genuine.
" " ..	1·0316	87·51	3·68	8·81	12·49	" "	34043	"
" " ..	1·0306	87·05	4·39	8·56	12·96	" "	34044	"
" " ..	1·0319	87·50	3·88	8·62	12·50	" "	34045	"
" " ..	1·0319	87·34	3·73	8·93	12·66	" "	34046	"
" " ..	1·0306	87·74	3·64	8·62	12·26	" "	34047	"
" " ..	1·0306	87·18	3·99	8·82	12·81	" "	34048	"
" " ..	1·0309	87·26	4·07	8·67	12·74	" "	34049	"
" " ..	1·0327	87·61	3·28	9·11	12·39	" "	34050	" under average in fat.
" " ..	1·033	88·07	3·03	8·90	11·93	" "	34051	"
" " ..	1·0322	87·16	4·05	8·79	12·84	" "	34052	Genuine.
" " ..	1·0312	87·93	3·69	8·38	12·07	" "	34053	"
" " ..	1·031	87·29	4·05	8·66	12·71	" "	34054	"
Taken from wholesale delivery wagon. Sold in bulk only.	1·032	87·81	3·54	8·66	12·20	" "	34055	"
Taken from delivery wagon on street.	1·0312	87·55	3·88	8·57	12·45	" "	34056	Genuine.
" " ..	1·031	88·08	3·60	8·31	11·91	" "	34057	Genuine; below average in total solids.
One bottle broken...	1·032	87·77	3·60	8·63	12·23	" "	34058	Genuine.
" " ..	1·0209	87·58	3·90	8·52	12·42	" "	34059	"
" " ..	1·030	87·97	3·54	8·49	12·03	" "	34060	"
Taken from waggon on street. Have 2 dairy farms, owned by syndicate, J. McEwen president.	1·032	87·91	3·32	8·71	12·03	" "	34061	" below average in fat.
Taken from wagon on street.	1·030	88·09	3·43	8·47	11·90	" "	34062	"
" " ..	1·031	88·17	8·41	8·42	11·83	" "	34063	"
Taken from wagon on street. Same source as No. 34061, only from a different delivery wagon.	1·031	88·24	3·26	8·49	11·75	" "	34064	"
Taken from wagon on street.	1·0290	88·10	3·83	8·07	11·90	" "	34065	Genuine; under average in total solids.
Taken from wagon on street. Sample taken from dairy farm No. 2. Same Co. as Nos. 34061 and 4, J. McEwen president, formerly called Moirs dairy.	1·031	86·75	4·35	8·90	13·25	" "	34066	Genuine.

RECORD OF FOOD SAMPLES—MILK—ANALYZED BY

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1907.			<i>District of Ottawa—J. A. Rickey, Inspector.</i>		
Aug. 8.	Milk.....	34067	Jas. Brady, Perth.....	24 oz.	6c.. Vendor.....
" 8.	"	34068	Jno. A. Chaplin, Perth.....	"	6c.. "
" 10.	"	34069	R. A. Watt, Perth.....	"	6c.. "
" 10.	"	34070	Ottawa Dairy Co., Ottawa.....	"	6c.. Several dairymen.....
			<i>District of Kingston—J. Hogan, Inspector.</i>		
July 24.	"	33001	D. Murray, Kingston.....	1 pint,	3c.. Vendor
" 24.	"	33002	C. McConville, "	"	3c.. "
" 24.	"	33003	S. Kirk, "	"	3c.. "
" 24.	"	33004	J. Acton, "	"	3c.. "
" 24.	"	33005	R. Baker, "	"	3c.. "
" 24.	"	33006	W. Gardeners, "	"	3c.. "
" 24.	"	33007	A. B. Gibbons, "	"	3c.. "
" 24.	"	33008	J. Gillespie, Kingston.....	1 "	3c.. "
" 24.	"	33009	G. F. Marton "	1 "	3c.. "
" 24.	"	33010	T. J. Polley "	1 "	3c.. "
" 25.	"	33011	W. Wood "	1 "	3c.. "
" 25.	"	33012	J. Joyce "	1 "	3c.. "
" 25.	"	33013	H. Retten "	1 "	3c.. "
" 25.	"	33014	J. Barrett "	1 "	3c.. "
" 25.	"	33015	J. H. Waller "	1 "	3c.. "
" 25.	"	33016	J. J. Wilmot "	1 "	3c.. "
" 25.	"	33017	D. D. Rodgers "	1 "	3c.. "
" 25.	"	33018	J. Snook "	1 "	3c.. "
" 25.	"	33019	A. E. Weller "	1 "	3c.. "
" 26.	"	33020	J. W. Andrews, Belleville Front.....	1 "	3c.. City Dairy
" 26.	"	33021	T. H. Waldron, Belleville.....	1 "	3c.. Vendor.....
" 26.	"	33022	J. Little "	1 "	3c.. "

INLAND REVENUE DEPARTMENT LABORATORY—Continued.

Inspector's Report.	RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks.
	Specific Gravity at 15° C.	Water.	Butter Fat.	Other Solids.	Total Solids.			
	p. c.	p. c.	p. c.	p. c.	p. c.			
Taken from wagon on street.	1·030	87·87	3·77	8·36	12·13	M. Bowman....	34067	Genuine; under average in non-fat solids.
" " ..	1·030	87·73	3·84	8·43	12·27	" "	34068	" "
" " ..	1·030	87·63	3·60	8·77	12·37	" "	34069	Genuine.
Taken from retail delivery wagon. Sold only in pint and quart bottles.	1·030	87·77	3·45	8·78	12·23	" "	34070	"
Taken from wagon on street.	1·0316	88·09	3·55	8·36	11·91	" "	33001	Genuine; under average in total solids.
" " ..	1·0338	88·12	3·28	8·60	11·88	" "	33002	Genuine; under average in fat.
" " ..	1·0327	87·71	3·84	8·45	12·29	" "	33003	Genuine.
" " ..	1·0316	88·75	3·01	8·24	11·25	" "	33004	" "
Duplicate broken in transit.	1·0338	87·30	3·67	9·03	12·70	" "	33005	"
Taken from wagon on street.	1·0316	87·34	4·23	8·43	12·66	" "	33006	"
" " ..	1·0316	87·63	3·76	8·61	12·37	" "	33007	"
" " ..	1·0327	87·82	3·30	8·68	12·18	" "	33008	Genuine; under average in fat.
" " ..	1·0338	87·87	3·28	8·85	12·13	" "	33009	" "
" " ..	1·0316	87·83	3·54	8·63	12·17	" " ..	33010	Genuine.
As brought to factory at Kingston from Pittsburg township.	1·0314	87·47	4·00	8·45	12·45	" "	33011	"
As brought to factory from Kingston township.	1·0255	87·58	5·58	6·84	12·42	" "	33012	Genuine; under average in non-fat solids.
As brought to factory from Pittsburg township.	1·0319	87·82	3·68	8·52	12·10	" "	33013	Genuine.
" " ..	1·0311	87·73	3·78	8·49	12·27	" "	33014	"
" " ..	1·0306	87·94	3·47	8·59	12·06	" "	33015	"
" " ..	1·0317	88·04	3·39	8·57	11·97	" "	33016	Genuine; under average in fat.
" " ..	1·0306	87·54	3·82	8·65	12·47	" "	33017	Genuine.
As brought to factory from Kingston township.	1·0295	88·22	3·46	8·33	11·78	" "	33018	Genuine; under average in total solids.
Taken from wagon on street.	1·0306	88·31	3·13	8·57	11·69	" "	33019	Genuine; under average in fat.
" " ..	1·033	87·96	3·26	8·78	12·04	" "	33020	" "
" " ..	1·033	87·02	3·22	8·96	12·98	" "	33021	"
" " ..	1·0319	87·33	3·82	8·85	12·67	" "	33022	"

RECORD OF FOOD SAMPLES—MILK—ANALYZED BY INLAND

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
<i>District of Kingston—J. Hogan, Inspector.</i>					
1907.					
July 26.	Milk.....	33023	W. Inshworth, Bellville.	1 pint, 3c..	Vendor
" 26.	"	32024	J. Boyd "	1 " 3c..	"
" 26.	"	33025	J. Knox "	1 " 3c..	"
" 26.	"	33026	Don. Belleker "	1 " 3c..	"
" 26.	"	33027	J. Ketchinson "	1 " 3c..	"
" 26.	"	33028	J. Cooper "	1 " 3c..	"
" 27.	"	33029	T. B. Bulger, Cobourg..	1 " 3c..	"
" 27.	"	33030	G. A. Workman "	1 " 3c..	"
<i>District of Toronto—H. J. Dager, Inspector.</i>					
" 7	"	33281	City Dairy Co., Spadina Crescent, Toronto.	"	"
" 7	"	33282	John Gibb, 162 Broadview, Toronto..	"	Andrew Grant, Scarborough, Ont.
" 7	"	33283	W. W. Pett, 9 Munroe St. "	"	J. J. Weir, Scarborough, Ont.
" 7	"	33284	J. Mills, 316 Sackville St. "	"	Vendor
" 7	"	33285	S. Price & Son, Queen St. East "	"	"
" 7	"	33286	Brenand's Dairy, 314 Gerrard St. East, Toronto.	"	John Trull, Darlington P.O.
" 7	"	33287	J. B. Dunlop, 212 Wilton Ave., Toronto.	"	Brenand's Dairy.....
" 7	"	33288	John Hummell, 99 Parliament St., Toronto.	"	Woburn Dairy Co., Scarborough, Ont.
" 7	"	33289	John Laughlin, 249 Bellwoods Ave., Toronto.	"	'Hawkins' (a farmer), Lambton Mills.
" 7	"	33290	M. Factor, 53 Elm St., Toronto.. ..	"	Price & Son, Toronto..
" 8	"	33291	F. Halleawell, 190 McCaul St., Toronto.	"	Wilson (a farmer), o Scarborough.
" 8	"	33292	E. L. Craggs, 196 Clinton St., Toronto.	"	H. Decoff, Downsview P. O.
" 8	"	33293	Geo. Brown, 141 Manning Ave., Toronto.	"	Wilson (a farmer), at Emery P.O.
" 8	"	33294	J. R. Benson, 290 Bathurst St., Toronto.	"	B. Boylen, Downsview P.O.
" 8	"	33295	H. Taylor, 245 Church St., Toronto.	"	J. Baird, Scarborough....
" 13	"	33296	Pure Milk Co., Ltd., 181 John St., North Hamilton.	"	Several farmers.
" 13	"	33297	J. O. Rykman, West Cottage, Aberdeen Ave., North Hamilton.	"	J. Quinn (a farmer) ...
" 13	"	33298	W. Goodbrand, Waterdown P.O.....	"	Vendor
" 13	"	33299	Jno. Rosberry, Cor. York and Park Sts., Hamilton.	"	"

REVENUE DEPARTMENT LABORATORY—Continued.

Inspector's Report.	RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks.
	Specific Gravity at 15° C.	Water.	Butter Fat.	Other Solids.	Total Solids.			
	p. c.	p. c.	p. c.	p. c.	p. c.			
Taken from wagon on street.	1·0297	88·98	3·31	7·71	11·02	M. Bowman....	33023	Genuine; under average in total solids.
" " ..	1·0319	87·27	4·25	8·48	12·73	" "	33024	Genuine.
As brought to factory	1·0341	87·89	3·42	8·69	12·11	" " ...	33025	Genuine; under average in fat.
" " ..	1·0308	89·14	3·22	7·64	10·86	" "	33026	Genuine; under average in total solids.
Duplicate broken in transit.	1·031	88·11	3·68	8·21	11·89	" "	33027	Genuine; under average in non-fat solids.
As brought to factory	1·033	87·87	3·56	8·58	12·14	" "	33028	Genuine.
Taken from wagon on street.	1·0319	88·39	3·18	8·43	11·61	" "	33029	Genuine; under average in total solids.
" " ..	1·0297	86·11	5·57	8·32	3·89	" "	33030	Genuine.
Sample taken from bottle on wagon on street.	1·031	88·55	3·11	8·34	11·45	" "	33281	Genuine; under average in fat.
Sample taken from 5 gallon can of wagon on street.	1·030	86·78	3·20	8·01	11·21	" "	33282	" "
" " ..	1·032	89·73	2·70	7·56	10·26	" "	33283	Watered.
" " ..	1·031	89·11	2·76	8·12	10·88	" "	33284	Partly skimmed.
Taken out of bottle of wagon on street.	1·031	88·89	3·01	8·10	11·11	" " ...	33285	Genuine; below average in fat.
Taken from 5 gallon can of wagon on street.	1·030	88·97	3·10	7·91	11·01	" "	33286	Watered.
" " ..	1·034	88·78	2·39	8·82	11·21	" "	33287	Partly skimmed.
At vendor's dairy premises.	1·030	89·23	3·30	7·47	10·77	" " ..	33288	Watered.
" " ..	1·031	89·66	2·33	8·01	10·34	" "	33289	Partly skimmed.
" " ..	1·030	88·83	2·99	8·18	11·17	" "	33290	Donbtful; probably partly skimmed.
Sample taken from 5 gallon can on wagon on street.	1·028	89·40	2·66	7·94	10·60	" "	33291	Watered.
Sample taken from 5 gallon can at vendor's premises.	1·031	89·03	2·32	8·65	10·97	" "	33292	Partly skimmed.
No. of farmer's can is No. 10.	1·029	89·01	2·74	8·24	10·98	" "	33293	"
.....	1·032	88·38	2·69	8·93	11·62	" " ...	33294	"
.....	1·028	88·98	3·15	7·87	11·02	" "	33295	Watered.
.....	1·0297	88·43	3·50	8·07	11·57	" " ...	33296	Genuine; under average in total solids.
.....	1·030	89·15	3·18	7·67	10·85	" "	33297	Watered.
.....	1·030	89·81	1·76	8·43	10·19	" "	33298	Skimmed.
.....	1·029	90·18	2·69	7·13	9·82	" "	33299	Watered.

RECORD OF FOOD SAMPLES—MILK—ANALYZED BY

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Coat.	Name and Address of Manufacturer or Furnisher.
1907.			<i>District of Toronto—H. J. Dager, Inspector.</i>		
Aug. 13	Milk.....	33300	Donald McLean, Clappson Corners P.O.	1 pint,	5c.. Vendors.....
" 13	"	33301	James Newman, Atlantic House, Hamilton.	"	"
" 13	"	33302	J. H. Cline, 161 Markland St., Hamilton.	"	C. E. Cochrane, Hamilton, Ont.
" 13	"	33303	Adam Inch, Hamilton P.O....	"	Vendor
" 13	"	33304	J. Anton, 124 Wellington St., North Hamilton.	" 5c..	M. Lyons, Rockchapel, Ont.
" 13	"	33305	Hamilton Dairy Co., Vine St., Hamilton.	"	Several farmers.
" 13	"	33306	Alfred Hack, St. Catharines	"	Vendor
" 13	"	33307	Jno. Smith, City View Dairy, St. Catharines.	"	A. Singer, St. Catharines P.O.....
" 13	"	33303	James Haynes, St. Catharines.	"	Vendor
" 13	"	33309	A. C. Braeken, Box 472, St. Catharines.	"	"
" 13	"	33310	Chas. Urlocker, Merritton P.O.	"	Hoover & Patterson, Thorold P.O.....
			<i>District of London—T. Kidd, Inspector.</i>		
July 26	Milk.....	30376	Samuel Bisset, Goderich	1 pint,	5c.. Vendor.....
" 26	"	30377	John Porter.	"	"
" 27	"	30379	Daniel Grumet, Harperhay.....	"	Daniel Grumet, Tno-kersmith Tp.
" 27	"	30380	McIntosh Bros., Seaforth.....	"	Vendors, McKillops Township.....
" 29	"	30382	W. T. Somers, Stratford.....	"	W. T. Somers, Downey Township..
" 29	"	30383	Wm. Cardwell, Stratford.....	"	Wm. Cardwell, Eastop P.O.....
" 29	"	30385	W. P. Thistle, St. Mary Road.....	"	Vendor.....
" 29	"	30386	Richard McNamara, Stratford.....	"	"
" 29	"	30391	Henry Mossops, London, Ont. . . .	"	"
" 30	"	30393	Glover Bros., Glendola P.O., London.	"	"
" 30	"	30394	J. W. Wilkinson, London.	"	"
" 30	"	30396	Jno. Byne, Sarnia.....	"	"
" 31	"	30396	James Sinclair, Sarnia Township....	"	"
" 31	"	30397	Jerid Moore, Sarnia Township.....	"	"
" 31	"	30398	Frank O'Donnell, Sarnia, P.O. . . .	"	"
July 31	"	30400	W. A. McGearhey, Sarnia City Dairy	"	"
Aug. 1	"	30401	A. B. Ellarbie, Chatham Road	"	"

INLAND REVENUE DEPARTMENT LABORATORY—Continued.

Inspector's Report.	RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks.
	Specific Gravity at 15° C.	Water.	Butter Fat.	Other Solids.	Total Solids.			
		p. c.	p. c.	p. c.	p. c.			
.....	1·0306	87·69	3·87	8·44	12·31	M. Bowman .	33300	Genuine; under average in non-fat solids.
.....	1·034	88·28	3·12	8·60	11·72	" "	33301	Genuine; under average in fat.
.....	1·030	88·89	3·18	7·93	11·11	" "	33302	" "
.....	1·0289	87·60	4·03	8·37	12·40	" "	33303	Genuine; under average in non-fat solids.
.....	1·027	90·22	2·47	7·30	9·77	" "	33304	Watered.
.....	1·0289	88·91	3·02	8·07	11·09	" "	33305	Doubtful, probably watered.
.....	1·030	86·95	4·63	8·42	13·05	" "	33306	Genuine.
.....	1·0311	87·97	3·23	8·80	12·03	" "	33307	Genuine, below average in fat.
.....	1·0322	87·55	3·38	9·07	12·45	" "	33308	Genuine, below average in fat.
.....	1·0300	87·10	4·33	8·57	12·90	" "	33309	Genuine.
.....	1·0327	87·20	3·61	9·19	12·80	" "	33310	"
Taken from large can on his wagon.	1·0299	86·92	4·53	3·55	13·08	" "	30376	Genuine.
Taken from quart bottle in his wagon	1·0306	88·15	3·26	8·60	11·85	" "	30377	Genuine, under average in fat.
Taken from large can on his wagon.	1·0330	86·21	4·64	9·15	13·79	" "	30379	Genuine.
" " ..	1·0319	88·08	3·19	8·73	11·92	" "	30380	Genuine, under average in fat.
" " ..	1·0309	86·96	4·28	8·76	13·04	" "	30382	Genuine.
Taken from large can on vendor's wagon.	1·0319	87·52	3·67	8·81	12·48	" "	30383	"
.....	1·033	87·95	3·39	8·66	12·05	" "	30385	" under average in fat.
.....	1·032	87·46	3·39	8·67	12·06	" "	30386	Genuine. "
Bot. from vendor on street.	1·0314	87·45	3·62	8·93	12·55	" "	30391	"
Taken from vendor's wagon on street.	1·030	88·32	3·40	8·27	11·67	" "	30393	Genuine, under average in total solids.
.....	1·031	88·65	3·13	8·22	11·35	" "	30394	Genuine, under average in fat.
" " ..	1·032	88·15	3·31	8·58	11·89	" "	30395	" "
.....	1·034	87·99	3·17	8·83	12·00	" "	30396	" "
.....	1·034	88·08	3·16	8·75	11·91	" "	30397	" "
Taken from vendor's wagon on street.	1·037	88·03	3·42	8·55	11·97	" "	30398	"
.....	1·0314	88·78	3·78	8·44	12·22	" "	30400	Genuine.
One bottle broken. Taken from can in wagon on street.	1·034	87·90	3·20	8·90	12·10	" "	30401	Genuine; below average in fat.

RECORD OF FOOD SAMPLES—MILK—ANALYZED BY

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
<i>District of London—T. Kidd, Inspector.</i>					
1907.					
Aug. 1	Milk.....	30402	Huff Bros., Chatham.....	1 pint, 5c. .	Vendor.....
" 1	" ..	30103	C. E. Lister, City Dairy, Chatham...	"	"
" 3	"	30406	R. W. Cook, Windsor.....	"	"
" 3	" ..	30407	Michael O'Brine, Windsor.....	"	"
" 3	"	30408	C. T. Brundell, Windsor	"	"
" 3	"	30409	Lawyer Bros., Tecumseth P. O. Ont.	"	"
" 13	"	30412	Henry Norman, St. Thomas.....	"	"
" 13	"	30413	Jno. Henderson, Yarnot Township..	"	"
" 13	"	30414	Fred Abbott, St. Thomas.....	"	"
" 14	"	30420	Thos. Heelop, Ingersoll	"	"
" 14	" ..	30421	Jerry Pickard, Ingersoll.....	"	"
<i>District of Calgary—R. W. Fletcher, Inspector.</i>					
" 17	"	28801	T. W. Tollia, Medicine Hat.....	1 pint, 5c. .	.....
" 17	"	28802	Cullen & Ballyantine, Calgary.....	" .....	.....
" 17	"	28803	McCutcheon Convey, Calgary.....	" .....	.....
" 17	"	28804	L. N. Jones, Calgary.....	" .....	.....
" 17	"	28805	C. T. Fanwiser, Calgary .....	" .....	.....
" 17	" ..	28806	Henry Poffenroth, Calgary .....	" .....	.....
" 17	"	28807	B. J. Newcombe, Calgary.....	" .....	.....
" 17	"	28808	Chas. Carlyle, Calgary.....	" .....	.....
" 17	"	28809	J. E. McDonald, Calgary.....	" .....	.....
" 17	"	28810	D. D. Houghton, " .....	" .....	.....
" 17	"	28811	Thos. Laycock, " .....	" .....	.....
" 17	"	28812	A. Cliffee, " .....	" .....	.....
" 21	"	28813	Rockview Dairy, " .....	" .....	.....
" 21	"	28814	B. J. Newcombe, " .....	" .....	.....
" 21	"	28815	A. J. Pratt, " .....	" .....	.....
" 21	"	28816	K. Cullen, " .....	" .....	.....
" 21	"	28817	Calgary Dairy Co., "	"	H. Cranston, Calgary.
" 21	"	28818	W. J. Iregillins, " .....	" .....	.....

INLAND REVENUE DEPARTMENT LABORATORY—Continued.

Inspector's Report.	PART OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks.
	Specific Gravity at 15° C.	Water.	Butter Fat.	Other Solids.	Total Solids.			
		p. c.	p. c.	p. c.	p. c.			
Taken from can in wagon in street.	1.034	88.20	3.04	8.75	11.79	M. Bowman....	30402	Genuine; below average in fat.
" "	1.0312	87.96	3.34	8.70	12.04	" " ..	30403	Genuine; below average in fat.
" "	1.0322	86.93	4.22	8.86	13.07	" " ...	30406	Genuine.
" "	1.0312	87.56	4.00	8.63	12.63	" "	30407	"
" "	1.0322	87.49	3.76	8.75	12.51	" "	30408	"
" "	1.0312	85.84	5.64	8.54	14.18	" "	30409	"
" "	1.0325	88.07	3.24	8.69	11.93	" "	30412	Genuine; below average in fat.
" "	1.0312	87.08	4.22	8.63	12.92	" "	30413	Genuine.
" "	1.0290	87.79	4.16	8.05	12.21	" " ..	30414	"
" "	1.032	87.44	3.54	9.02	12.56	" " ...	30420	"
" "	1.031	86.48	4.77	8.80	13.57	" "	30421	"
" "	1.032	86.98	4.00	9.02	13.02	Dr. C. J. Fagan.	28801	Genuine.
" "	1.025	81.20	9.75	9.05	18.80	"	28802	"
" "	1.032	86.90	3.81	9.29	13.10	"	28803	"
" "	1.032	87.00	3.60	9.40	13.00	"	28804	"
" "	1.034	87.20	3.44	9.36	12.80	"	28805	"
" "	1.026	84.50	7.37	7.13	14.50	"	28806	Low in solids not fat. Probably cream added.
Driver No. 1.....	1.031	86.65	3.84	9.51	13.35	"	28807	Genuine.
" "	1.032	87.40	3.35	9.25	12.60	"	28808	Genuine.
" "	1.030	86.10	4.80	9.10	13.90	"	28809	"
" "	1.090	84.45	6.40	9.15	15.55	"	28810	"
" "	1.032	86.09	4.23	9.68	13.91	"	28811	"
" "	1.031	85.25	5.50	9.25	14.75	"	28812	"
" "	1.033	87.40	3.23	9.35	12.60	"	28813	"
Driver No. 2..	1.033	86.55	4.18	9.27	13.45	"	28814	"
" "	1.033	86.75	3.81	9.44	13.25	"	28815	"
" "	1.030	87.20	3.66	9.14	12.80	"	28816	"
" "	1.031	86.40	4.59	9.01	13.60	"	28817	"
" "	1.032	87.90	3.00	9.10	12.10	"	22818	"

RECORD OF FOOD SAMPLES—MILK—ANALYZED BY

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
<i>District of Calgary—R. W. Fletcher, Inspector—Concluded.</i>					
Aug. 22	Milk.....	28819	Fitzroy, Callison & Morphet, Calgary	1 pint	5c.....
" 30	"	28820	Doherty & Hare, Edmonton.. . . .	"	"
" 30	"	28821	W. W. Rowley, Calgary.....	"	"
" 30	"	28822	H. Wonnacothé, "	"	"
" 30	"	28823	J. McLin, "	"	"
" 30	"	28824	E. Smart, "	"	"
" 30	"	28825	Cancelled.....	"	"
" 31	"	28826	A. Berg, Fort Saskatchewan	1 pt.	5c.....
" 31	"	28827	Mrs. Geo. Becker, Fort Saskatchewan.	"	"
" 31	"	28828	Mrs. David Simpson, Fort Sask	"	"
" 31	"	28829	Mrs. W. J. Howard, "	"	"
Sept. 3	"	28830	A. B. Everts, Wetaskiwin	"	"
" 3	"	28841	Axie Bengaton, Wetaskiwin.....	"	"
<i>District of British Columbia—E. B. Parkinson, Inspector.</i>					
July 29	"	32102	Vancouver Dairy, 965 Seymour St., Vancouver.	1 pint,	5c....
" 29	"	32103	J. Metcalfe, 998 Richards St., Vancouver.	"	W. Williamson, Sea Island. Murphy, Sea Island...
" 29	"	32104	Richmond Dairy Association, Abbott St., Vancouver.	"	Not known
" 29	"	32105	Richmond Dairy Association, Pender St., Vancouver.	"	"
" 29	"	32106	W. Ratcliff, 2740 Prince Edward St., Vancouver.	"	Garvin Bros., Vancouver.
" 30	"	32107	Edmund Hicks, 144 Lansdowne Ave., Vancouver.	"	Not known
" 30	"	32108	J. S. Murphy, Eburne, B.C	"	A. McRae, Lulu Island
" 30	"	32109	J. Metcalfe, 998 Richards St., Vancouver.	"	Murphy, Sea Island...
" 30	"	32110	C. H. Boyer, 1214 Richards St., Vancouver.	"	Not known
" 30	"	32111	Richmond Dairy Association, Pender St., Vancouver.	"	D. Jureit, Steveston, B.C.
" 30	"	32112	"	"	J. Smith, Steveston B.C.

INLAND REVENUE DEPARTMENT LABORATORY—Continued.

Inspector's Report.	RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks.
	Specific Gravity at 15° C.	Water.	Butter Fat.	Other Solids.	Total Solids.			
		p. c.	p. c.	p. c.	p. c.			
.....	1'083	86'00	2'83	9'17	12'00	Dr. C. J. Fagan.	28819	Below average in butter fat.
Milkman, driver No. 2.	1'082	85'90	4'81	9'29	14'10	"	28820	Genuine.
Milkman, driver No. 1.	1'034	87'00	3'70	9'30	13'00	"	28821	"
Milkman	1'032	85'70	5'10	9'20	14'30	"	28822	"
"	1'016	72'97	18'92	8'21	27'13	"	28823	Partly cream.
"	1'027	85'60	6'00	8'40	14'40	"	28824	Genuine.
.....								
Milkman	1'029	86'20	4'90	8'90	13'80	"	28826	"
"	1'087	86'50	3'50	10'00	13'50	"	28827	"
"	1'037	84'10	6'25	9'05	15'90	"	28828	"
"	1'037	84'50	5'40	10'10	15'50	"	28829	"
"	1'081	87'40	3'70	8'90	12'60	"	28830	"
"		87'10	3'00	8'30	11'90	"	28841	" Sp. gr. could not be taken.
.....								
.....	1'030	88'50	3'70	8'80	11'50	C. J. Fagan	32102	Partly skimmed.
Sample No. 1.....	1'031	87'60	3'20	9'20	12'40	"	32103	Genuine; below average in fat.
Vendor purchase milk from several parties and mix all together. This sample as sold to public.	1'030	87'75	3'10	9'15	12'25	"	32104	"
" ..	1'029	88'37	2'80	8'83	11'63	"	32105	Genuine; below average in butter fat.
.....	1'028	89'98	2'50	7'52	10'02	"	32106	Watered.
Vendor buys from several parties and mixes all together.	1'026	89'90	2'50	7'00	10'19	"	32107	"
.....	1'030	88'20	3'00	8'80	11'80	"	32108	Genuine; under average in butter fat.
Sample No. 2. Vendor has several wagons, so I took two samples.	1'031	87'50	3'20	9'30	12'50	"	32109	Genuine; below average in fat.
Vendor buys from several parties and mixes all together.	1'032	87'47	3'30	9'23	12'53	"	32110	"
This sample was taken from the can on its arrival at dairy.	1'030	88'68	2'40	8'92	11'32	"	32111	Partly skimmed.
" ..	1'031	88'00	3'00	9'00	12'00	"	32112	Genuine; below average in fat.

RECORD OF FOOD SAMPLES—MILK—ANALYZED BY

Date of Collection.	Nature of Sample.	No. of sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
<i>District of British Columbia.—E. B. Parkinson, Inspector—Concluded</i>					
July 30	Milk...	32113	Richmond Dairy Association, Pender St., Vancouver.	1 pint 5c.	J. A. McKinney, Steveston, B.C.
" 30	"	32114	"	"	A. McRae, Eburne, B.C.
" 30	"	32115	"	"	F. J. Engbaum, Steveston, B.C.
" 30	"	32116	"	"	J. McCulloch, Steveston, B.C.
" 31	"	32117	The Valley Dairy, Vancouver	"	Almond Creamery Co., Vancouver.
" 31	"	32118	W. Kirkby, 934 7th Ave., Mount Pleasant, Vancouver.	"	A. W. Wilson, Sea Island.
" 31	"	32119	A. Black, 627 Westminister Ave., Vancouver.	" 10	Almond Dairy Co.
" 31	"	32120	A. S. Cogrove, Fairview, Vancouver	" 5	Not known
" 31	"	32121	Garvin Bros., Westminister Ave., Vancouver.	"	F. Wooster, Westminister Road, Vancouver
" 31	"	32122	A. O. Beath, 542 Cordova St. East, Vancouver.	" 10	Jno. McMyne, Hammond, B.C.
" 31	"	32123	Almond Creamery Co., Vancouver	" 5	Not known
" 31	"	32124	" Gore Ave., Vancouver.	"	A. Jones, Lulu Island.
Aug. 1	"	32125	F. Thrussell, New Westminister, B.C.	"	Vendor
" 1	"	32126	F. W. Smith, "	1 " 5c.	"
" 1	"	32127	Brehant & Booth, "	1 " 5c.	"
" 2	"	32128	Baby's Own Dairy, Vancouver, B.C.	1 " 5c.	"
" 2	"	32129	J. Anderton, 16th Ave., Fairview, Vancouver, B.C.	1 " 5c.	J. McLean, Eburne, B.C.
" 2	"	32130	Cherry Dairy, 2501 Bridge St., Vancouver, B.C.	1 " 5c.	Steeves, No. 9 Road, Eburne, B.C.
" 2	"	32131	Wells & Co., Pender St., Vancouver, B.C.	1 " 5c.	Richmond Dairy Association, Pender St., Vancouver, B.C.

INLAND REVENUE DEPARTMENT LABORATORY—*Concluded.*

Inspector's Report.	RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks.
	Specific Gravity at 15° C.	Water.	Butta- Fat.	Other Solids.	Total Solids.			
	p. c.	p. c.	p. c.	p. c.	p. c.			
This sample was taken from the can on its arrival at dairy.	1.030	88.70	2.40	8.90	11.30	C. J. Fagan	32113	Partly skimmed.
"	1.030	88.20	3.30	8.50	11.80	"	32114	Genuine ; under average in total solids.
"	1.030	88.10	3.08	8.82	11.90	"	32115	Genuine ; low in butter fat.
"	1.030	88.00	3.20	8.80	12.00	"	32116	Genuine ; below average in fat.
.....	1.027	89.75	2.40	7.85	10.25	"	32117	Watered.
.....	1.029	88.00	3.30	8.70	12.00	"	32118	Genuine ; below average in fat.
.....	1.024	93.70	1.50	4.80	6.30	"	32119	Watered.
Vendor purchases from several parties and mixes all together.	1.029	88.00	3.00	9.00	12.00	"	32120	Genuine ; below average in fat.
.....	1.028	89.40	2.33	8.27	10.60	.....	32121	Partly skimmed.
.....	1.029	88.85	2.60	8.55	11.15	.....	32122	"
Vendor purchases from several parties and mixes all together.	1.026	90.20	1.80	8.00	9.80	.....	32123	Skimmed.
This sample taken from can on its arrival at dairy.	1.030	87.83	3.20	8.97	12.17	C. J. Fagan ...	32124	Genuine ; below average in fat.
.....	1.030	88.90	2.50	8.60	11.10	C. J. Fagan ...	32125	Partly skimmed.
.....	1.029	88.70	2.55	8.75	11.30	"	32126	"
.....	1.030	86.85	3.70	9.45	13.15	"	32127	Genuine.
.....	1.031	88.28	2.60	9.12	11.72	" ..	32128	Partly skimmed.
.....	1.030	86.75	3.50	9.75	13.25	"	32129	Genuine.
.....	1.029	88.00	3.20	8.80	12.00	" ...	32130	Genuine ; below average in fat.
.....	1.020	92.07	2.20	5.73	7.93	"	32131	Watered.

APPENDIX TO BULLETIN 142.

BY-LAWS TO LICENSE AND REGULATE MILK VENDORS IN THE FOLLOWING CITIES :

Halifax—No regulations so far.

Fredericton—No regulations so far.

Charlottetown—An inspector is appointed; inspection of milk as delivered; license fee of \$15 a year; penalties, \$30 or 30 days jail.

St. John, N.B.—Inspection of herds; inspection of premises; inspector appointed; inspection of milk as delivered; vendor shall notify of any disease in family or herd; penalties \$40 and license cancelled. Shall deliver statement of name and address, source or sources of milk supply, number of cows in his possession, quantity of milk disposed of, situation of dairies. Shall not offer skimmed milk unless asked for, and labelled with letters if not less than 2 inches long. Shall furnish certificate from Veterinary Surgeon that cows are free from disease, at least once a year.

Quebec—Has about the same regulations as St. John; but the license fee is only \$1 per annum; and there is a standard for fat of 3 per cent., 12 per cent. total solids and sp. gr. of 1029 to 1033 at 60° F. Penalties are \$20.

Montreal—Same as Quebec, but no specification for the sale of skimmed milk.

Hull—Same as above, but the standard for butter-fat is 3.25 and penalties from \$1 to \$50.

Ottawa—Same as Quebec, but 3.5 butter fat.

Kingston—3 per cent. butter fat and 12 total solids; penalty, \$1 to \$50, otherwise the same as Ottawa.

Toronto—3 per cent. butter fat and 12 per cent. total solids; inspector appointed and inspection of milk as delivered.

Brantford—3.5 butter fat and 12 total solids, and same as Toronto.

Hamilton—No standards, but has an inspector appointed for herds, premises, and milk as delivered, and a license fee of \$1 per annum.

Winnipeg—By-laws are in the hands of the printer.

Calgary—3 per cent. butter fat, and same as Hamilton.

Vancouver—Same as St. John, N.B.; 3 per cent. butter fat and a license fee of \$5 per annum and penalties from \$1 to \$100.

Regina—Has about the same regulations as St. John; the license fee is \$5 per annum; and there is a standard of 3.5 per cent for butter fat and 12 per cent. Total solids. Penalties are \$10 a day for each day after having been notified by the Health officer.

