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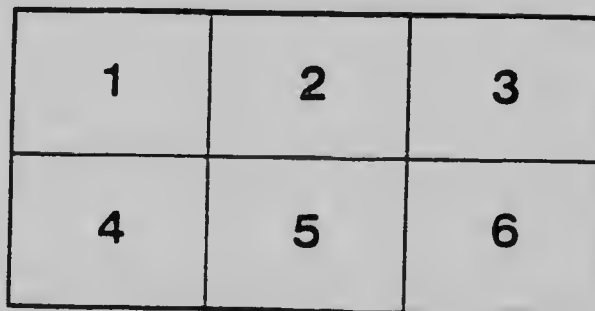
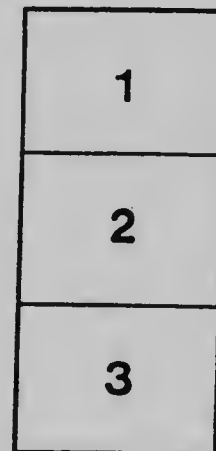
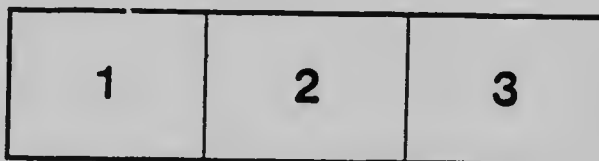
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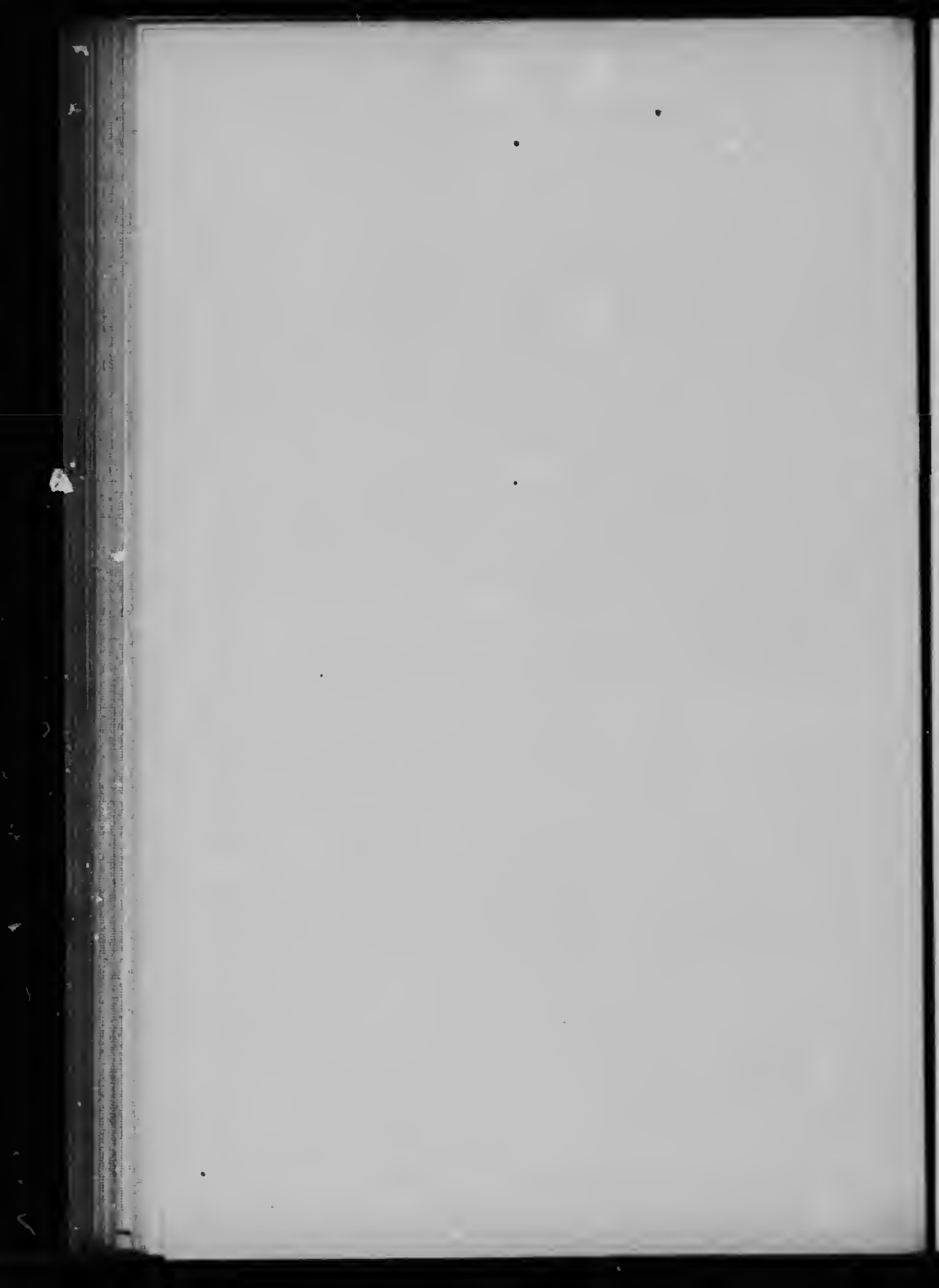
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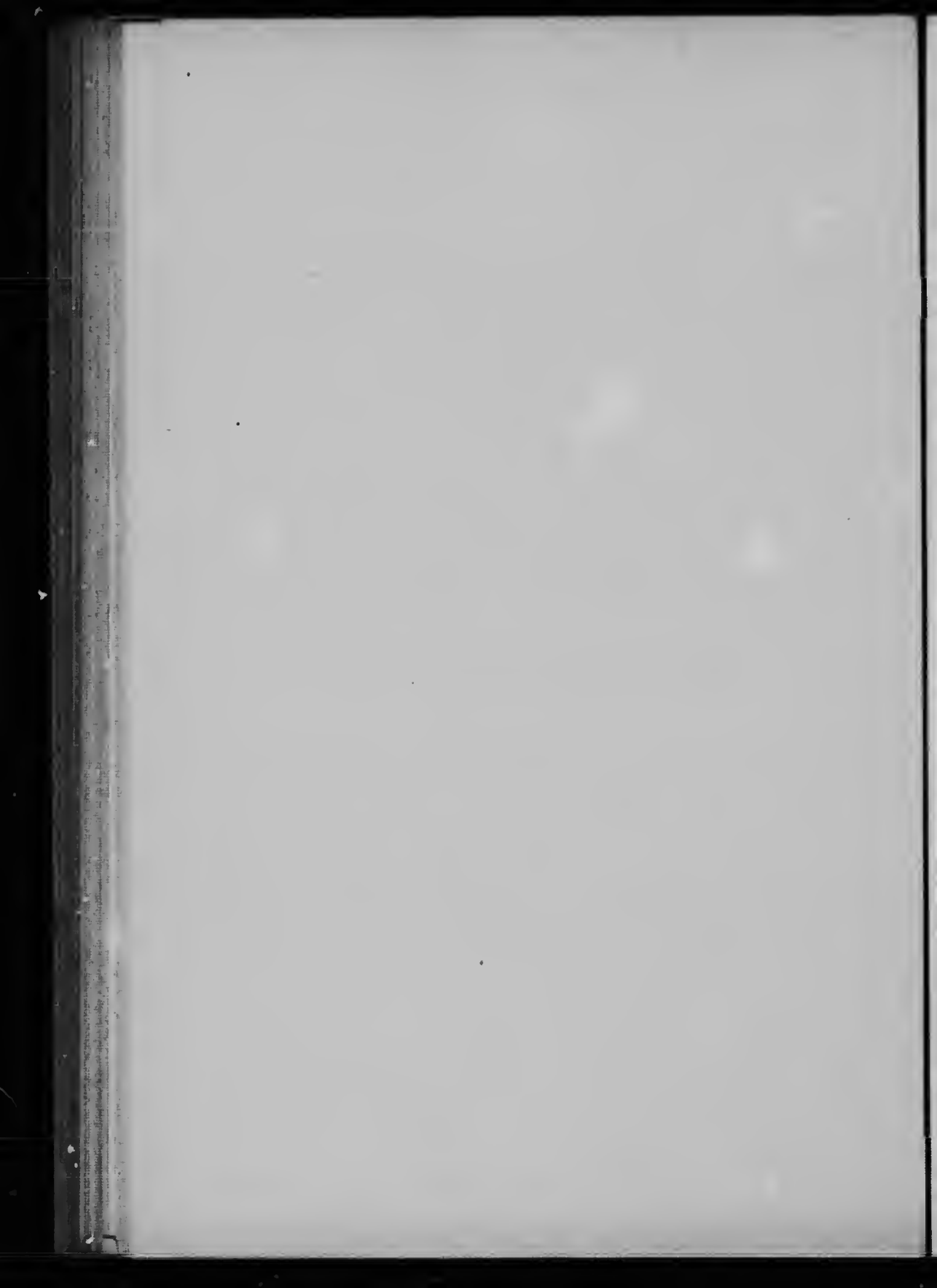
O. H. M. S.

W. J. Gerald
Deputy Minister.

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA.

BULLETIN No. 162

ICE CREAM



LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA
BULLETIN No. 162

ICE CREAM

OTTAWA, September 11, 1908.

W. G. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR:—I beg to hand you a report upon 145 samples of Ice Cream, obtained by our inspectors during July and August of this year. All the inspectoral districts are represented.

These results show much that is of interest; although they are far from being as complete as could be wished. This is mainly due to unexpected difficulties found in transmitting samples of so perishable an article, in a fit state for analysis.

The employment of some preservative being imperative, I selected formaldehyde, and prescribed its use in the proportion of 5 drops of a 40 per cent. solution, to 6 ounces of Ice Cream.

Eighty samples were received in good enough condition to permit of the determination of fat. Fifty nine samples were spoiled, so far as estimation of fat is concerned, others were lost through imperfect packing. Experience shows the necessity of shaking the bottle, to prevent churning during transit, and to exclude air.

The amount of preservative recommended proved quite sufficient to keep the sample in good condition, in spite of the extremely hot weather of last month. Samples from Nova Scotia on the one hand and Calgary on the other were capable of being worked for fat. But some of our inspectors exhibited gross disregard of instructions, and instead of using 6 oz. bottles, quite filled, as they were expressly told to do, used gem jars, and large bottles, which being only partly filled, permitted the sample to be effectively churned, while the contained air assisted decomposition.

We have no standards for Ice Cream in Canada. It is evident that the article should consist essentially of frozen cream and sugar; and had we a standard for cream, such standard should be applicable to frozen cream, unless otherwise specified. The United States standard for cream requires a minimum of 18 per cent. fat; while for ice cream the minimum required is 14 per cent. fat. *Fruit Ice Cream* and *Nut Ice Cream* which respectively contain fruit and nuts, are required to contain a minimum of 12 per cent. of butter fat.

Ordinary ice cream is always flavoured either by natural or artificial extracts of various fruits, vanilla, &c. The addition of these extracts to a cream together with the sugar reduces the percentage of fat; and this is taken into account in the standards just mentioned.

When less than 14 per cent. of fat is present it is usual to add a stiffening material in addition to the sugar, and this practice seems to be followed by some manufacturers

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even when the fat content is above 14 per cent. The stiffeners most in vogue are gelatin, gelatinized starch and succate of lime. The last has not been found in any of the samples here reported.

By the use of a stiffener, it is possible to use a proportionately poor cream, and yet produce an ice cream of apparent good quality. On this account, rather than because of any unwholesomeness in the thickener itself the employment of such thickeners must be regarded as questionable.

The present investigation shows gelatine to be used in 73 of the samples examined, while 27 contain starch. In some cases the starch is present in traces only, and may be due to the freezing apparatus, or other container, having previously been used for a starch-containing product.

Only one sample contained nuts. Most of the samples were uncoloured; and of those which were coloured, only two were dyed by coal-tar products; (35154 and 35158). The remainder were coloured by true fruit juices.

A propos of coal-tar dyes in ice cream, I may mention a case recently brought to my notice by Dr. G. P. Girdwood of Montreal, in which a consumer of artificially coloured (so called strawberry) ice cream, was seriously affected, the symptoms of poisoning persisting for several days. That these dyes are excreted by the kidneys was evidenced by the passing of blood-coloured urine; while the diuretic effect was apparent in the abnormal stimulation of the kidneys. An examination of the dye used convinced me that it is *Ponceau 2 R.* (Sodium Xylidine, Azo-2-Naphtol 3-6 disulphonate,) a colour much used for imitating strawberry, and imported into Canada as "Strawberry Red."

Meyer (*Jour. Am. Chem. Soc.* 1907, p. 892) examined this, and some other anilin colours, by experimenting upon dogs, and found that the first dog succumbed to doses of 16 grams of *Ponceau 2 R.* on the seventh day. Another dog took as much as 60 grams which he vomited, but continued to take 5 grams doses for twenty days with no ill effects.

These immense doses would indicate that the very minute amounts employed in foods can hardly be considered toxic. Most of the colouring matter was voided in the faeces, but enough of it passed through the kidneys to give a blood red colour to the urine.

Individuals are often so constituted as to be specially susceptible to the action of certain drugs, which most of us may take with apparent impunity. This brings up the whole question of artificial colours in foods, which has been treated more fully in Bull. 83, p. 14. The subject requires fuller investigation than it has yet received.

Of the 80 samples of ice cream received in such condition as to make possible the determination of their fat content, 40 samples contained above 14 per cent, and 40 others contained less than that amount. Of these last, 12 samples contained less than 10 per cent.

I do not feel justified in drawing any general conclusions from the data herein contained; but would respectfully ask that it be published as Bulletin No. 162, as a first contribution to the study of Ice Cream in Canada. An early opportunity will be taken for further investigation of the subject.

I have the honour to be, sir,
Your obedient servant,

A. McGILL,
Chief Analyst.

BULLETIN No. 162—ICE CREAM.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cust.		Name and Address of Manufacturer or Purchaser as given by the Vendor.	Inspector's Report.	RESULTS OF ANALYSIS.			Remarks and Opinion of the Chief Analyst.	
				Quantity.	Cost.			(Relative.	Search.	Total Solids.		Fat.
1906.												
Aug. 11	Ice Cream.	33536	D. R. Ross, Halifax, N.S.	1 pint	20	Vendor	Sample sold as vanilla ice cream.	None.	None.	P. C.	15.43	Sample in good condition.
" 11	"	33537	"	1 "	20	"	Sample sold as strawberry ice cream.	None.	None.	.....	15.64	"
" 11	"	33538	F. W. Cookson, Halifax, N.S.	1 "	20	"	Sample sold as vanilla ice cream.	Present.	None.	..	15.70	"
" 11	"	33539	Scotts Pure Milk Co., Ltd., Halifax, N.S.	1 "	20	Vendors	Sample sold as pineapple ice cream.	Present.	None.	..	15.06	"
" 11	"	33540	"	1 "	20	"	Sample sold as strawberry ice cream.	Present.	None.	.....	14.06	"
" 12	"	33541	J. E. Regan, Halifax, N.S.	1 "	25	Vendor	Sample sold as peach ice cream.	None.	None.	.....	11.84	"
" 12	"	33542	Toas & Co., Halifax, N.S.	1 "	25	Vendors	Sample sold as chocolate ice cream.	Present.	Present.	.....	9.00	Sample in good condition; of low quality.
" 12	"	33543	"	1 "	25	"	Sample sold as macaroon ice cream.	Present.	None.	.....	8.16	"
" 12	"	33544	Gaspere Poirer, Halifax, N.S.	1 "	25	Vendor	Sample sold as vanilla ice cream.	Present.	None.	.....	3.78	Sample in good condition; of very low quality.
" 12	"	33546	W. Patrick, Halifax, N.S.	1 "	25	Scotts Pure Milk Co., Halifax, N.S.	Sample sold as macaroon ice cream.	Present.	None.	.....	11.43	Sample in good condition.

DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.

BULLETIN No. 162—ICE CREAM.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Coct.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report.	RESULTS OF ANALYSIS.				Remarks and Opinions of the Chief Analyst.	
				Quantity.	Cents.			(Gelatin.	Starch.	Total Solids.	Fat.		
July 15	Ice Cream.	31291	Vincent Mc Isaac, 1 pint. Souris.	1	30	Vendor.....	.....	.....	.....	p.c.	p.c.	.....	Both bottles broken in transit; carbonaceous in packing.
" 15	"	31292	T. Peckard, Souris.	1	25	"	.....	.....	.....	.....	6.30	.....	Sample in good condition; of low quality.
" 22	"	31293	M. Richards, Murray River.	1	25	"	.....	.....	.....	None.	.....	.....	Sample in poor condition; fat not determined.
" 28	"	31294	E. J. DesRoches, Charlottetown.	1	25	Vendor.....	.....	.....	.....	Present.	.....	.....	"
" 28	"	31295	Mills Bros., Char. lotetown.	1	25	Vendor.....	.....	.....	.....	Present.	.....	.....	"
" 28	"	31296	Mrs. W. F. Carter, Charlottetown.	1	25	Vendor.....	.....	.....	.....	Present.	.....	.....	"
" 30	"	31297	Mrs. J. Vatcher, Charlottetown.	1	25	"	.....	.....	.....	None.	.....	.....	Sample in good condition.
Aug. 3	"	31298	E. Keir, Kensington.	1	25	"	.....	.....	.....	Present.	.....	.....	Sample in good condition; of low quality.
" 4	"	31299	J. J. Gaudet, Summerside.	1	25	"	.....	.....	.....	Present.	.....	.....	Sample in good condition.
" 4	"	31300	J. W. Warren, Summerside.	1	25	"	.....	.....	.....	Present.	Present.	.....	Sample in good condition.

DISTRICT OF PRINCE EDWARD ISLAND—T. MOORE, INSPECTOR.

DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.

July 26	Ice Cream.	29723	Maritime Dairy Co., St. John, N.B.	1 pt	30	Vendor.....	.....	.....	.....	None.	None.	.....	Sample in good condition.
" 28	"	29724	T. J. Phillips, St. John, N.B.	1	20	Vendor.....	.....	.....	.....	None.	None.	.....	Sample in poor condition. Fat not determined.
" 28	"	29725	Frank White Catering Co., St. John, N.B.	1	30	Vendor.....	.....	.....	.....	Present.	Present.	.....	Sample in good condition.

BULLETIN No. 162—ICE CREAM.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by Vendor.	Inspector's Report	RESULTS OF ANALYSIS.				Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.			Starch.	Starch.	Total Solids.	Fat.	
DISTRICT OF ST. HYACINTHE—J. C. ROULEAU, INSPECTOR.												
1908.												
July 30	Ice Cream..	150	J. S. Gingras, Marieville.	1 pint	25	Vendor	.....	Present.	Present.	p. c. 5.93	In good condition.	Of very poor quality.
Aug. 3	"	151	G. Bergeron, Drummondville.	1 " "	30	"	.....	None.	None.	11.84	In good condition.	
"	"	152	F. W. Savage, Watrous.	4 plates.	40	"	.....	None.	None.	17.77	"	
"	"	153	C. H. Welch, Waterloo.	4 " "	20	"	.....	Present.	Present.	9.35	In good condition.	Of poor quality.
"	"	154	Arthur Villeneuve, Magog.	5 " "	25	"	.....	None.	None.	10.86	In good condition.	
"	"	155	M. Panoz, Sherbrooke.	1 pint..	25	"	.....	None.	None.	17.78	"	
"	"	156	Jos. Bilodeau, Sherbrooke.	1 " "	25	"	.....	Present.	Present.	11.22	"	
"	"	157	A. F. Shasha, Sherbrooke.	1 " "	25	"	.....	None.	None.	16.26	"	
"	"	158	Dion & Ives, St. Hyacinthe.	1 " "	35	Vendors	.....	None.	None.	19.84	"	
"	"	159	P. Therrien, Hyacinthe.	1 " "	25	Vendor	.....	Present.	None.	4.80	In good condition.	Of very low quality.

DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.

July 14	Ice Cream..	32801	Imperial Ice Cream Co., Ltd., Montreal.	1 pint..	25	Vendors	.....	None.	None.	40.5	In good condition.
"	"	32802	J. D. Duncan Co., Montreal.	1 " "	30	"	.....	Present.	None.	42.2	In good condition.

23	Standard Dairy Co., Montreal.	1	25	"	Present.	None.	10.96	"
23	M. Nicholson, 481 St. Lawrence St., Montreal.	1	20	Vendor.	Present.	None.		Sample in poor condition. Fat not determined.
24	Robert Pharmacie, St. Catherine St., Montreal.	1	25	Standard Dairy Co.	Present.	None.	13.54	In good condition.
24	Z. Demetre, 500 St. 1 Catherine St. Montreal.	1	25	Vendor	None.	None.	12.58	"
24	W. J. Scott, 248 St. 1 Denis St., Mont- real.	1	25	"	None.	None.		In poor condition. Fat not determined.
27	D. H. Welsh, St. 1 Peter St., Mont- real.	1	25	"	None.	Trace.	23.34	In good condition.
27	J. M. Aird, 393 Notre 1 Dame St., Mont- real.	1	25	Imperial Ice Cream Co., Ltd., Mont- real.	Present.	None.	17.86	"
27	Speridakos Bros., 458 1 Notre Dame St., Montreal.	1	25	Vendors	Present.	None.		In poor condition. Fat not determined.

DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.

July 11	Ice Cream..	22643	J. W. Brisco, Fem- broke, Ont.	1 pt	25	Vendor	Present.	None.	34.5	12.5	Sample in good condition.
" 11	"	22644	F. W. Chambers, Pembroke, Ont.	1	25	"	None.	None.	34.1	15.9	"
" 14	"	22645	C. F. MacInnes, Frederic, Ont.	1	20	"	None.	None.	37.3	18.5	"
" 15	"	22646	P. Pearson, Ot- tawa, Ont.	1	30	Ottawa Dairy Co., Ottawa, Ont.	None.	None.	38.0	20.8	"
" 20	"	22647	C. H. Rogers, Brit- annia, Ont.	1	25	Vendor	None.	Trace.	36.2	12.9	"
" 20	"	22648	T. D. Sayer, Aylmer Pack, Que.	1	25	"	None.	None.	31.6	11.5	"
" 21	"	2649	Ottawa Dairy Co., Ottawa, Ont.	1	25	Vendors	None.	None.	34.3	15.7	"
" 21	"	22650	"	1	25	"	Trace.	None.	39.9	20.9	"
" 23	"	22651	W. S. Baldwin, Carle- ton Place.	1	25	Vendor	None.	Present.	32.2	15.2	"
" 25	"	22652	David Wilson, Shaw- ville, Que.	1	25	Ottawa Dairy Co., Ottawa, Ont.	None.	None.	38.6	19.8	"

BULLETIN No. 162—ICE CREAM.

Date of Collection	Nature of Sample	No. of Sample	Name and Address of Vendor	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report.	RESULTS OF ANALYSIS.				Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.			Gelatine.	Starch.	Total Solids.	Fat.	

DISTRICT OF KINGSTON—J. ROHAN, INSPECTOR.

1908.	July 20	Ice Cream	35255 S. Leverin, Kingston.	1 pt	20	Vendor	.....	Present.	None.	p.c.	.....	Sample in bad condition. Fat not determined.
"	"	"	35256 J. Frasso, "	1 "	20	"	.....	Present.	None.	"	.....	"
"	"	"	35257 Y. Handell, "	1 "	20	"	.....	Present.	Present.	"	.....	"
"	"	"	35258 H. F. Prices, "	1 "	25	H. F. Prices, Kingston.	.....	Present.	None.	"	.....	"
"	"	"	35259 (Geo. Masoud, "	1 "	20	Vendor	.....	Present.	None.	"	.....	"
"	"	"	35260 H. Jarvis, "	1 "	25	"	.....	None.	None.	"	.....	"
"	"	"	35261 J. McLaughlin, Kingston.	1 "	20	"	.....	Present.	None.	"	.....	"
"	"	"	35262 T. Peters, Kingston.	1 "	20	"	.....	None.	None.	"	.....	"
"	"	"	35263 A. J. Rees, "	1 "	25	"	.....	Present.	None.	"	.....	"
"	"	"	35264 (G. W. Mahood, Kingston.	1 "	25	"	.....	Present.	None.	"	.....	"

DISTRICT OF TORONTO—H. J. DAGEE, INSPECTOR.

Aug.	5	Ice Cream	35154 L. O. Boist, Hamilton.	1 pt	20	Vendor	.....	None.	None.	13.71	.....	In good condition. Contains coal tar dye.
"	6	"	35155 The Pure Milk Co., Ltd., Hamilton.	1 "	20	Vendors	.....	None.	None.	14.85	.....	In good condition.
"	6	"	35156 Burke Bros., Hamilton.	1 "	20	"	.....	None.	Present.	13.05	.....	"

"	5	"	35157	D. M. Ltd, Oshawa,	1	"	20	Vendor	Present.	8-00	"	Of poor quality.
"	5	"	35158	M. J. Gibson, Oshawa,	1	"	20	"	Present.	8-37	"	Of poor quality. Coal tar dye.
"	8	"	35159	Chas. Led, Whitty,	1	"	20	"	Present.	15-59	"	In good condition.
"	13	"	35160	Wm. Neilson, Ltd.,	1	"	15	Vendors	Present.		"	In poor condition. Fat not determined.
"	13	"	35161	City Dairy Co., Ltd.,	1	"	25	"	None.	20-24	"	In good condition.
"	13	"	35162	S. Price & Sons, Ltd.,	1	"	20	"	None.		"	In poor condition. Fat not determined.
"	13	"	35163	Union Dairy Co.,	1	"	20	"	Present.	10-76	"	In good condition.

DISTRICT OF LONDON—T. KIDD, INSPECTOR.

July	20	Ice Cream	30949	Oscar Neil, Seaforth	1	pt	20	Vendor	Present.	None.		In poor condition. Fat not determined.
"	20	"	30950	Chas. Abraham, Seaforth,	1	"	20	"	Present.	None.		"
"	21	"	30953	Chas. Gough, Stratford,	1	"	20	"	None.	Present.		"
"	22	"	30960	J. W. Palmer, Hemel	1	"	20	"	Present.	Present.		"
"	23	"	30965	G. McLennon, Clinton,	1	"	20	"	Present.	None.		"
"	29	"	30966	S. G. S. Kirk, Brusa,	1	"	15	"	None.	None.		"
"	31	"	30972	Frank H. Smith, St. Marys,	1	"	15	"	None.	None.	18-94	In good condition.
"	31	"	30974	Mrs. Harvey Tuer, St. Marys,	1	"	20	"	Present.	None.	14-52	"
"	31	"	30976	Mrs. Smith, St. Marys,	1	"	20	"	None.	Present.	17-00	"
"	31	"	30978	Bush & Cox, Stratford,	1	"	20	Vendors	None.	None.	11-66	"

DISTRICT OF WINDSOR—J. TALBOT, INSPECTOR.

July	16	Ice Cream	34578	Peter Hirniko, London,	1	pint	20	Vendor	Present.	None.		In poor condition. Fat not determined.
"	16	"	34579	Fawkes & Son, London,	1	"	15	Vendors	None.	None.		"
"	17	"	34580	C. J. Leach, London,	1	"	20	Vendor	Present.	Present.		"

DISTRICT OF CALGARY R. W. FLETCHER, INSPECTOR.

Aug. 13	Ice Cream	35306	Owen H. Batt, Cal-gary	1 pt.	40	Vendor	None	Present	19-22	Sample in good condition.
"	"	35307	H. E. McKinnon, Medicine Hat.	1 "	30	"	None	None	11-48	"
"	"	35308	W. H. Doby, Medicine Hat.	1 "	20	"	None	Trace	16-96	"
"	"	35309	Bee Hive Mfg. Co., Edmonton.	1 "	25	Vendors	Present	Trace	12-98	"
"	"	35310	Hallier & Aldridge, Edmonton.	1 "	30	"	None	None	19-36	"
"	"	35346	Rochon Bros, whole-sale, Calgary.	1 "	30	"	Present	Trace	13-46	"
"	"	35347	Mrs. Stritt, Calgary	1 "	30	Vendor	Present	None	23-88	"
"	"	35348	Rochon Bros, retail, Calgary.	1 "	30	Vendors	Present	Present	14-50	"
"	"	35349	Mrs. E. Dunsmuir, Calgary.	1 "	30	Vendor	None	None	17-16	"
"	"	35350	J. Arvell, Calgary	1 "	35	"	None	None	17-16	Both bottles broken in transit.

DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.

Aug. 12	Ice Cream	34340	Richmond Dairy Co., Vancouver.	1 pt.	25	Vendors	Present	None	12-80	Both samples broken, due to bad packing. Fat not determined.
"	"	34341	R. A. Crawford, Vancouver.	1 "	25	Richmond Dairy Co., Vancouver.	Present	None	15-06	"
"	"	34342	Chas. Nelson, Vancouver.	1 "	25	Almond Creamery Co., Vancouver.	Present	None	12-80	In good condition.
"	"	34343	The Spa Candy Co., Vancouver.	1 "	25	Vendors	None	Present	15-06	"
"	"	34344	De la Confectionery Store, Vancouver.	1 "	25	"	None	None	15-06	"
"	"	34345	Marratt & Ried, Vancouver.	1 "	25	"	Present	None	19-02	In poor condition. Fat not determined.
"	"	34346	Royal Oady Factory, Vancouver.	1 "	25	"	Present	None	19-02	In good condition.
"	"	34347	A. Demetory, Vancouver.	1 "	25	Vendor	Present	None	19-02	In poor condition. Fat not determined.
"	"	34348	City Dairy Co., Vancouver.	1 "	25	Vendors	Present	None	11-24	In good condition.
"	"	34349	Woodwards Dept. Stores, Vancouver.	1 "	25	Almond Creamery Co., Vancouver.	Present	Present	11-24	"

ICE CREAM—BULLETIN No. 162—Concluded.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report.	RESULTS OF ANALYSIS.				Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.			(Relative).	Starch.	Total Solids.	Fat.	
1908.												
July 28	Ice Cream	34930	Hall & Co., Victoria, Victoria.	1 pt	25	Vendors.	.....	None.	None.	16.92		In good condition.
" 30	"	34931	G. H. Larrigan, Victoria.	1 "	25	Royal Dairy, Victoria.	.....	Present.	None.	.....		In poor condition. Fat not determined.
" 30	"	34932	H. A. Lilly, Victoria.	1 "	25	Vendor	.....	None.	None.	.....		Bottle samples broken, due to careless packing. Fat not determined.
" 30	"	34934	R. H. Mould, Victoria.	1 "	50	Royal Dairy, Victoria.	.....	None.	None.	.....		In poor condition. Fat not determined.
" 30	"	34935	A. Westerdale, Victoria.	1 "	50	"	.....	Present.	None.	.....		"
" 30	"	34938	J. Paula, Victoria.	1 "	50	"	.....	Present.	None.	.....		"
" 30	"	34939	Victoria Creamery Assoc., Victoria.	1 "	20	Vendors	.....	Present.	None.	.....		Both bottles broken, due to careless packing. Fat not determined.
" 31	"	34974	Harcop & Antipas, Victoria.	1 "	45	"	.....	Present.	None.	.....		"
" 31	"	34975	V. Stramtares, Victoria.	1 "	50	"	.....	Present.	None.	.....		"

DISTRICT OF VICTORIA—D. O. SULLIVAN, INSPECTOR.

