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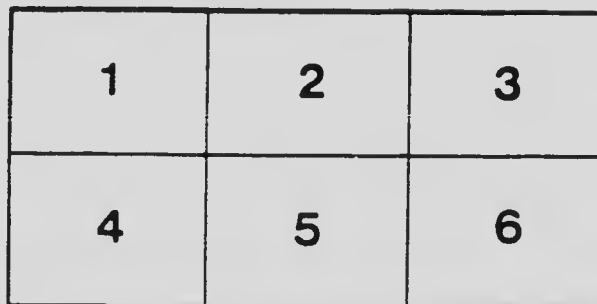
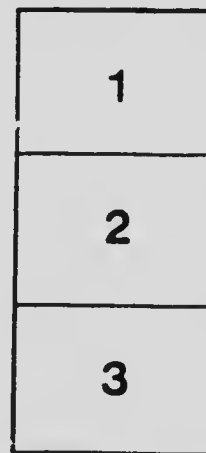
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LABORATORY  
OF THE  
INLAND REVENUE DEPARTMENT  
OTTAWA, CANADA

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BULLETIN No. 249

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BOTTLED PICKLES.

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LABORATORY  
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INLAND REVENUE DEPARTMENT

OTTAWA, CANADA.

BULLETIN No. 249

BOTTLED PICKLES.

OTTAWA, February 19, 1913.

WM. HINSWORTH, Esq.,  
Acting Deputy Minister of Inland Revenue.

SIR,—I beg to send you herewith a report upon eighty (80) samples of Bottled Pickles, purchased by the inspectors of this Department in April and May of last year. The last report upon Pickles was published as Bulletin No. 163, in September, 1908.

Pickles are, as a rule, very carefully prepared, and we have no reason to believe that any ground for complaint exists in their regard.

Mouldiness was found in four samples of the present collection. This is not, apparently, due to the use of imperfect fruit or vegetables in their preparation, but rather to the employment of too weak a vinegar; vinegar containing  $2\frac{1}{2}$  p. c. of Acetic Acid, or more, appears to be best suited to use in bottled Pickles, so far as our experience goes.

Fourteen samples give evidence of the employment of Acetic Acid having its origin in a distillation process—in their manufacture. The vinegar in admixture with which the pickles are sold, must meet the standards legalized for vinegar under the Adulteration Act.

Sixteen samples exhibit traces of Alum, but only one sample contains any notable amount. Alum is extensively used for the purpose of keeping the vegetables hard and firm. It has not been established that the minute quantities of Alum necessary for this purpose are, in any degree, harmful to human health. This may be due to the fact that Pickles are consumed in small quantity only, and as a condiment rather than for food purposes.

It is probable that sound vegetables can be kept in a desirable state of firmness by the use of Vinegar only, provided that the Vinegar is sufficiently strong.

I beg to recommend publication of this report as Bulletin No. 249.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,  
Chief Analyst.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1912.							
April 25	Bottled Pickles.	47056	Wm. Moore, Halifax, N.S.	3 bts.	60	White & Co., London, Eng.	Maconochie Bros., London, Eng.
" 26	"	47057	John Tobin & Co., Halifax, N.S.	"	60	Heintz & Co., London, Ont.	Lea-Manufacturers, London, Eng.
" 26	"	47058	Wentzells, Ltd., Halifax, N.S.	"	75	Maconochie Bros., London, Eng.	"
" 26	"	47059	A. & W. Smith & Co., Halifax, N.S.	"	35	Lea's, Ltd., London, Ont.	Simcoe, "
" 26	"	47060	The Monlton Tracey Mfg. Co., Halifax, N.S.	"	35	Vendors	"
DISTRICT OF PRINCE EDWARD ISLAND—							
May 21	Bottled Pickles.	46211	Stewart & Son, Charlottetown, P.E.I.	3 bts.	90	Cross & Blackwell, Soho, London.	"
" 21	"	46212	Beer & Goff, Charlottetown, P.E.I.	"	66	Chas. Heaton & Co., West Ferry Road, London, Eng.	"
" 21	"	46213	B. F. Maddigan & Co., Charlottetown, P.E.I.	"	60	Matthews, London, Eng.	"
" 21	"	46214	John McKenna, Charlottetown, P.E.I.	"	36	Jno. Stephens, Sons & Co., Gloucester, Eng.	"
" 21	"	46215	J. P. Duffy, Charlottetown, P.E.I.	"	60	White & Co., London, Eng.	"
DISTRICT OF NEW BRUNSWICK—							
April 15	Bottled Pickles.	45650	W. A. Fairweather Co., Ltd., St. John, N.B.	3 bts.	45	Vendors	"
May 12	"	45651	Yerxa Grocery Co., Fredericton, N.B.	"	57	"	A. T. Randolph & Son, Fredericton
April 26	"	45652	F. E. Rose, St. Stephen, N.B.	"	75	Lea Pickling & P. Co., Ltd., Simcoe, Ont.	"
May 6	"	45653	Geo. T. Baird Co., Ltd., Perth, N.B.	"	54	Jno. Stevens & Co., Ltd., Gloucester, Eng.	"
" 10	"	45654	2 Barkers, Ltd., Moncton, N.B.	"	30	Rowat & Co., Glasgow.	"
DISTRICT OF QUEBEC—							
April 24	Bottled Pickles.	37428	Emile Emond, 32 Rue Laliberte, Quebec.	3 bts.	45	Lytle, Toronto.	J. B. Reneaud & Cie.
" 25	"	37429	Jos. Boutin, 40 Rue de L. Eglise, Quebec.	"	30	Rowat & Co., Glasgow.	Bedard et Frere...
" 25	"	37430	Narcisse Lamontagne, 143 Rue Fleury, Quebec.	"	54	Lytle, Toronto.	J. B. Reneaud et Cie.
" 25	"	37431	J. E. Marand, 406 Rue St. Valier, Quebec.	"	45	"	"
" 25	"	37432	J. F. Gossin, 50 Rue D'Orchester, Quebec.	"	54	Imperial Pickles, Glasgow.	Barbeau & Godbout.

## BOTTLED PICKLES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Soundness of Vegetables	Alum.	Acetic Acid $C_2H_3O_2$	Formic Acid.		
<b>R. J. WAUGH, INSPECTOR.</b>						
Sold as mixed.....	Sound and Firm	None	3.61	Trace	47056	
"	"	"	2.96	None	47057	
"	"	"	4.75	"	47058	
Sold as sour.....	"	Light trace.	2.46	0.023% present.	47059	Acetic Acid used.
Picadilli .....	"	None	1.83	None	47060	
<b>WM. A. WEEKS, INSPECTOR.</b>						
	Sound and Firm	None	3.42	0.042% present.	46211	Acetic Acid used.
	"	"	2.82	0.020% present.	46212	"
	"	"	2.46	None	46213	
	"	"	3.10	"	46214	
	"	Light trace.	1.17	0.037% present.	46215	Acetic Acid used.
<b>J. C. FERGUSON, INSPECTOR.</b>						
	Sound and Firm	None	1.49	None	45650	
Heaton's Pickles....	"	"	3.43	0.019% present.	45651	Acetic Acid used
	"	"	1.50	None	45652	
	"	"	2.76	0.018% present.	45653	Acetic Acid used.
	"	"	1.60	None	45654	
<b>F. X. W. E. BELAND, INSPECTOR.</b>						
	Sound and Firm	None	1.86	None	37428	
	"	"	3.14	"	37429	
	"	"	2.22	"	37430	
	"	Light trace.	2.42	"	37431	
	"	Heavy trace.	3.19	"	37432	Alum used.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
<b>DISTRICT OF ST. HYACINTHE</b>							
1912.							
April 17	Bottled Pickles.	38987	Hector Cyr, Granby.	3 jars.	39	Rowat & Co., Glasgow and Liverpool.	
" 3	"	38988	Fred J. Terrill, Mel-bourne.	3 "	75	The T. A. Lytle Co., Toronto.	
May 1	"	38989	A. Cardin, Actonvale.	3 "	45	Maconochie Bros., Ltd., London, Eng.	
" 3	"	38990	G. Girouard, Victoria-ville.	3 "	45	H. J. Heintz Co. . .	
" 6	"	38991	H. Messier, St. Hyacinthe.	3 "	30	Bastian Pickle Co., Montreal.	
<b>DISTRICT OF MONTREAL</b>							
April 17	Bottled Pickles.	39995	R. Jacobson, 312 St. Dominique st., Montreal.	3 lots	30	Bastian Pickle Works	
" 17	"	39996	Anbin & Co., St. Lawrence mkt., Montreal	3 "	40	H. Bourque & Son, Montreal.	
" 19	"	39997	S. L. Desautheurs, 437 St. N. D. st. west, Montreal.	3 "	75	Taylor & Pringle Co., Ltd., Owen Sound.	
" 19	"	39998	"	3 "	30	L. Lemeteys, Montreal.	
" 19	"	39999	J. T. Tracey, 137 McGill st., Montreal.	3 "	75	S. Chivers & Co., Ltd., Cardiff.	
<b>DISTRICT OF OTTAWA</b>							
April 25	Bottled Pickles.	51606	F. H. Gilchrist, Ottawa.	3 lots.	30	Canadian Pickling Co., Toronto.	T. A. Lytle Co., Toronto.
" 25	"	51607	F. A. Reade, Ottawa.	3 "	30	Rowat & Co., Glasgow.	F. J. Castle Co., Ottawa.
" 25	"	51608	H. Richardson, Ottawa.	3 "	75	C. & F. Morton, Eng. land.	Unknown
" 25	"	51609	J. H. Lacasse, Ottawa.	3 "	30	Purnell & Panter, Bristol, Eng.	Jos. Grant, Ottawa.
" 25	"	51610	W. A. Ferris, Ottawa.	3 "	75	Jno. Stephens, Son & Co., Ltd., Gloucester, Eng.	F. J. Castle Co., Ottawa.
<b>DISTRICT OF KINGSTON</b>							
April 15	Bottled Pickles.	49565	Albert Powers, Picton.	3 lots.	30	Wm. Davies, Toronto	
" 16	"	49566	Hooey & Sons, Cobourg.	3 "	45	Lea's, Simcoe.	
" 16	"	49567	John Curtis, Port Hope.	3 "	30	C. Gildner & Co., Toronto.	
" 17	"	49568	J. R. Bell, Peterboro.	3 "	30	Stephens, Gloucester, Eng.	
" 17	"	49569	Dutton & Co., Peterboro.	3 "	54	T. A. Lytle Co., Toronto.	

## BOTTLED PICKLES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Soundness of Vegetables.	Alum.	Acetic Acid $C_2H_3O_2$ %	Formic Acid.		

## J. C. ROULEAU, INSPECTOR.

.....	Sound and Firm.	Light trace.	2.73	None	38985	
.....	"	None	1.40	"	38986	
.....	"	"	2.60	"	38989	
.....	"	"	1.40	"	38990	
.....	Mouldy	Light trace.	0.21	"	38991	Very low acidity. Mouldy

## J. J. COSTIGAN, INSPECTOR.

"Maple Leaf".....	Mouldy	None	0.51	None	39995	Very low acidity. Mouldy.
.....	Sound and Firm.	"	2.40	"	39996	
.....	"	Light trace.	3.11	"	39997	
.....	"	None	2.92	"	39998	
.....	"	"	3.61	"	39999	

## J. A. RICKEY, INSPECTOR

.....	Sound and Firm	None	1.76	None	51606	
.....	"	"	3.80	"	51607	
.....	"	"	3.72	"	51608	
.....	"	"	2.69	"	51609	
.....	"	Light trace.	3.02	0.014% present.	51610	Acetic acid used.

## JAS. HOGAN, INSPECTOR.

.....	Sound and Firm.	None	2.13	None	49565	
.....	"	"	2.82	0.011% present.	49566	Acetic acid used.
.....	"	"	3.00	None	49567	
.....	"	Light trace.	3.00	0.017% present.	49568	Acetic acid used.
.....	"	None	.....	None	49569	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
<b>DISTRICT OF TORONTO—</b>							
1912.							
April 18	Bottled Pickles.	49392	C. Gildner & Co., 180 Front St. East, Toronto.	3 bots.	23	Vendors	
" 18	"	49393	M. R. Yost & Son, 108 Portland St., Toronto.	"	20	"	
" 30	Bulk Sweet Pickles.	49394	Wm. Davies Co., Ltd., 102 Queen St. East, Toronto.	3 pts.	45	"	
May 1	"	49395	Jas. Lawrie, Wellington St., Hamilton.	3 "	45		H. J. Heinz & Co., Toronto.
" 2	Bottled Sweet Pickles	49396	W. J. Whitfield, Main St., East Toronto.	3 bots.	60		Unknown.
<b>DISTRICT OF LONDON—</b>							
May 7	Bottled Pickles.	48256	W. R. Butcher, St. Mary's.	3 bots.	45	Lea Pickling Co., Simcoe.	
" 7	"	48258	M. Fleming, St. Mary's.	3 "	35	Stephens, London, Eng.	
" 8	"	48264	Stuebing & Son, Berlin.	3 "	45	T. A. Lytle Co., Toronto.	
<b>DISTRICT OF WINDSOR—</b>							
May 2	Bottled Pickles.	48236	F. McDougall, Ingersoll.	3 bots.	45	Heinz, Leamington.	
" 2	"	48238	Geo. G. Beck, Ingersoll.	3 "	65	Lea Pickling & Preserving Co., Simcoe.	
" 2	"	48239	C. A. O'Neil Estate, Ingersoll.	3 "	60	T. A. Lytle Co., Toronto.	
" 3	"	48245	Poole & Co., Woodstock.	3 "	75	Crosse & Blackwell, London, Eng.	
" 3	"	48249	A. M. Smith & Son, Woodstock.	3 "	30	Rowat & Co., Glasgow.	
" 8	"	48266	Schell Bros., Berlin.	3 "	30	G. E. Steggall, Streetsville.	
" 8	"	48268	Betzner & Co., Berlin.	3 "	75	Maconochie Bros., London, Eng.	
<b>DISTRICT OF MANITOBA—</b>							
April 16	Bottled Pickles.	48641	St. James Cash Grocery, St. James, M.	3 bots.	60	The Dyson Co., Winnipeg.	
" 16	"	48642	" " " "	3 "	75	" " " "	
" 16	"	48643	Duncan & Hunter, St. James, M.	3 "	75	The Blackwood, Ltd., Winnipeg.	
" 16	"	48644	" " " "	3 "	75	The White Star Mfg. Co., Winnipeg.	
" 17	"	48645	J. Paterson, Portage Ave., Winnipeg.	3 "	75	" " " "	

## BOTTLED PICKLES.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Soundness of Vegetables.	Alum.	Acetic Acid $C_2H_3O_2\%$	Formic Acid.		

## H. J. DAGER, INSPECTOR.

				p. c.		
Standard "Brand" . . .	Sound and Firm . .	Trace . . .		1.02	None . . . . .	49392
" " . . . . .	" " . . . . .	None . . . . .		3.00	" " . . . . .	49393
" " . . . . .	" " . . . . .	" " . . . . .		1.58	" " . . . . .	49394
" " . . . . .	" " . . . . .	" " . . . . .		3.00	" " . . . . .	49395
"Queen Quality" . . .	" " . . . . .	" " . . . . .		2.72	" " . . . . .	49396

## JNO. TALBOT, ACTING INSPECTOR.

Lea's Celebrated Pickles.	Sound and Firm . .	Light trace.		2.34	None . . . . .	48256
Stephen's New Pickles.	" " . . . . .	None . . . . .		3.21	" " . . . . .	48258
Labelled "Sweet Midgetts," "Sterling" Brand.	" " . . . . .	Trace . . . . .		2.00	" " . . . . .	48254

## JNO. TALBOT, INSPECTOR.

Heinz Sweet Mixed Pickles.	Sound and Firm . .	None . . . . .		2.95	None . . . . .	48236
Lea's Celebrated Pickles, sour, mixed	" " . . . . .	" " . . . . .		2.16	" " . . . . .	48238
Sterling Brand Sweet Mixed Pickles.	" " . . . . .	Light trace.		1.52	" " . . . . .	48239
Mixed Pickles . . . . .	" " . . . . .	None . . . . .		3.36	" " . . . . .	28245
Rowat's Superior Pickles.	" " . . . . .	" " . . . . .		3.12	" " . . . . .	48249
English John Bull Pickles.	" " . . . . .	" " . . . . .		2.24	" " . . . . .	48266
Maconochie's Fruit Pickles.	" " . . . . .	" " . . . . .		4.16	0.029% present.	48268 Acetic Acid used.

## A. C. LARIVIÈRE, INSPECTOR.

East India Relish . .	Sound and Firm . .	Trace . . . . .		3.68	None . . . . .	48641
Sweet Mixed Pickles.	" " . . . . .	None . . . . .		2.88	" " . . . . .	48642
Blackwood's Onion Pickles.	" " . . . . .	" " . . . . .		5.39	" " . . . . .	48643
Sweet Mixed Pickles	" " . . . . .	" " . . . . .		2.79	" " . . . . .	48644
" " . . . . .	" " . . . . .	" " . . . . .		2.00	" " . . . . .	48645

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

## DISTRICT OF CALGARY—

1912.							
April 7	Bottled Pickles.	41160	Campbell, Wilson & Horne, Lethbridge.	3 bots.	60	The Dyson Co., Winnipeg.	
" 7	"	41161	H. A. McKillop & Co., Lethbridge.	3 "	1 20	H. J. Heinz, Pittsburg.	
" 7	"	41162	A. MacDonald, Lethbridge.	3 "	50	White Star Manufacturing Co., Winnipeg.	
" 7	"	41163	Hudson Bay Co., Lethbridge.	3 "	1 00		
" 7	"	41164	Bentley Co., Lethbridge.	3 "	75	Lea Pickling and Preserving Co., Simcoe, Ont.	

## DISTRICT OF NELSON—

April 18	Bottled Pickles.	49643	Cooper & Christine, Vernon, B.C.	3 bots.	75	Rowat & Co., Glasgow, Scot.	
" 18	"	49647	W. H. Smith, Vernon, B.C.	3 "	90	Leas, Ltd., Simcoe, Ont.	
" 18	"	49648	"	3 "	1 20	Gillard & Co., London.	
" 18	"	49652	W. R. Megaw, Vernon, B.C.	3 "	1 05	Dewar, Watson & Co., Glasgow, Scot.	
" 18	"	49653	"	3 "	1 00	Wilson's, Leeds, Eng.	

## DISTRICT OF VANCOUVER—

May 2	Bottled Pickles.	38311	Gruchy & Carlaw, Vancouver.	3 jars.	1 05	Crosse & Blackwell, London, Eng.	
" 2	"	38342	Armour MacFarlane, Vancouver.	3 "	75	Thos. W. Lipton, London, Eng.	
" 2	"	38343	Cook Bros., Vancouver.	3 "	75	Rowat & Co., Liverpool, Eng.	
" 2	"	38344	Z. Stephens, Vancouver.	3 "	75	White Star Mfg. Co., Winnipeg.	
" 2	"	38345	Mills & McAdam, Vancouver.	3 "	75	Maconochie Bros., London, Eng.	

## DISTRICT OF VICTORIA—

April 23	Bottled Pickles.	49140	Windsor Grocery Co., Victoria.	3 bots.	1 05	W. R. Honston & Co., Victoria.	
" 24	"	49141	The West End Grocery Co., Ltd., Victoria.	3 "	60	E. Lazenby & Son, London, S.E.	
" 24	"	49142	Harrison & McDonald, Victoria.	3 "	75	Holbrook & Co., London, Eng.	
" 25	"	49143	Wm. B. Hall, Victoria.	3 "	1 05	H. J. Heintz & Co., Pittsburg.	
" 25	"	49144	Dixie H. Ross, Victoria.	3 "	75	C. & F. Morton, London, Eng.	

BOTTLED PICKLES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Soundness of Vegetables.	Alum.	Acetic Acid C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> %	Formic Acid.		

R. W. FLETCHER, INSPECTOR.

.....	Sound and Firm.	Light trace.	p. c. 1.64	None .....	44160	
.....	" ..	" ..	2.96	" .....	44161	
.....	" ..	None .....	2.47	" .....	44162	
Put up for Hudson Bay Co.	" ..	" ..	3.38	0.021% present.	44163	Acetic acid used,
Pearl Onions.....	" ..	" ..	2.31	0.023% present.	44164	"

THOS. PARKER, INSPECTOR.

.....	Sound and Firm..	None .....	4.27	None .....	49643	
.....	" ..	" ..	2.88	Trace .....	49647	
.....	" ..	" ..	3.17	" .....	49648	
.....	" ..	" ..	1.10	None .....	49652	
.....	" ..	" ..	3.24	" .....	49653	

J. F. POWER, INSPECTOR.

Mixed pickles.	Sound and Firm..	None .....	3.12	0.038% present.	38341	Acetic acid used.
Lipton's choice mix- ed.	" ..	" ..	3.66	Trace .....	38342	
Rowat's superior pic- kles in pure vinegar.	" ..	" ..	3.60	" .....	38343	
Guaranteed to be ab- solutely pure and not injurious.	Mouldy on top....	Light trace.	1.64	None .....	38344	Mouldy.
Mixed pickles.	Sound and Firm..	None .....	3.20	" .....	38345	

D. O'SULLIVAN, INSPECTOR.

Sweet pickles.	Mouldy .....	None .....	1.04	0.020% present.	49140	Acetic acid used. Mouldy.
Mixed pickles.	Sound and Firm..	" .....	3.02	None .....	49141	
"	" ..	" ..	4.11	" .....	49142	
Heinz's sour mixed pickles.	" ..	" ..	3.84	" .....	49143	
Morton's sweet mix- ed pickles.	" ..	" ..	2.64	" .....	49144	



