

O. H. M. S.

W. J. Gerald
Deputy Minister.

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA.

—
BULLETIN No. 163
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PICKLES.

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PICKLES.

OTTAWA, September 21, 1908.

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

SIR,—I have the honour to hand you a report of work upon 149 samples of Pickles collected throughout the various inspectoral districts of Canada in July and August last.

With two exceptions, the vegetables were found to be in good condition. Both of the exceptional cases were evidently prepared with very weak vinegar, or the vegetables contained so much water as to dilute this, to respective strengths of 1·02 and 0·61 per cent. of acetic anhydride.

The acetic strength of the vinegar present in these samples was found to be as follows :—

	Samples.
Above 3 per cent. anhydride.	14
Between 3 and 2·5 p.c. "	26
" 2·5 and 2·0 " "	50
" 2·0 and 1·5 " "	49
" 1·5 and 1·0 " "	8
Below 1 per cent. "	2
Total	149

Alum is said to be sometimes employed to harden the vegetables, as well as to give them better keeping qualities, and to permit of the use of a weaker vinegar. All the samples were examined for soluble alumina, with the following results :—

	Samples.
Soluble Alumina absent in	124
" " present in	25
Total	149

It would not, however, be safe to infer the use of alun in every case in which a reaction for alumina was obtained. Owing to the prone habit of cucumbers, and the liability to take up, in the creases of the pericarp, minute particles of clay, and further to the possibility of a slight solubility of such clay by prolonged contact with acetic acid, it may be that, where merely traces of alumina were found, these may be accounted for, as above suggested. It is however, noteworthy that 124 samples gave no reaction with tests for alumina. This fact seems to warrant the conclusion that, where *distinct* traces of alumina are found in solution, the use of alun is indicated.

The only preservatives found (other than the vinegar) were salicylic acid and sulphurous acid, the latter probably used as acid sulphite of lime. Twelve (12) samples gave reactions for salicylic acid; 137 samples gave no reaction.

Twelve (12) samples gave reactions for sulphurous acid. Of this number, 4 were prepared with mustard (so-called Chow-Chow). In view of the fact that mustard contains sulphur, which might under certain conditions (e.g. boiling with saltpetre) yield sulphurous acid, it is important to note that six (6) other samples of this class of pickle gave no reactions for sulphurous acid.

Sulphurous acid or a sulphite, may be employed either or both for the purpose of bleaching certain vegetable tissues (Cauliflower, onion, &c.), and as a preservative. Of course different manufacturers have different methods of working; and the objects aimed at by various trade practices, can only be surmised by an outsider.

This is the first occasion upon which pickles have been examined in this laboratory. We have no standard defined for this article of food, nor is it easy to formulate such. The United States Standards of 1906, define Pickles as "Clean, sound, immature cucumbers, properly prepared, without taking up any metallic compound other than salt, and preserved in any kind of vinegar, with or without spices; *pickled onions, pickled beets, pickled beans*, and other pickled vegetables, are vegetables prepared as described above and conform in name to the vegetable used."

The present report must be regarded as a first contribution to the study of pickles, as found on Canadian markets.

I beg to recommend its publication as Bulletin 163.

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

A. MCGILL,
Chief Analyst.

BULLETIN No. 163—PICKLES.

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.			Acetic anhydride per 100 cc.	Alum.	Preservatives.	
1908.											
Aug. 4	Bottled Pickles.	33511	Wm. Smith, Kentville, N.S.	3 bots..	40	Canada Pickling Co., Toronto.	Bull Dog Brand...	2-24	Trace in ash.	Sulphurous acid, 0.007 per 100 cc.	Mixed pickles. Vegetables sound and firm.
" 5	"	33512	J. Lynch & Sons, Windsor, N.S.	3 " ..	45	Lipton, London, Eng.	Lipton's Mixed Pickles.	3-37	None.	None.	" "
" 6	"	33513	J. S. Creed, Halifax, N.S.	3 " ..	45	" " ..	Lipton's Chow Chow.	2-75	None.	None.	Chow Chow. Vegetables sound and firm.
" 8	Bulk Pickles...	33514	C. E. Choat, Halifax, N.S.	2 lbs. ..	36	Heinz, Pittsburgh, U.S.	Sweet Mixed Pickles.	1-84	Trace in ash.	None.	Mixed pickles. Vegetables sound and firm.
" 10	"	33515	City Provision Store, Halifax, N.S.	2 " ..	30	" " ..	" " ..	1-91	Trace in ash.	None.	" "
" 4	"	33516	D. H. Dodge, Kentville, N.S.	2 " ..	20	H. A. Moore, Wolfville, N.S.	Mixed Pickles ...	1-58	None.	None.	Pickles. Vegetables sound and firm.
" 4	Bottled Pickles.	33517	S. L. Cross, Kentville, N.S.	3 bots..	60	Heinz, Pittsburgh, U.S.	Heinz Mixed Pickles.	3-36	None.	None.	Mixed pickles. Vegetables sound and firm.
" 5	Bulk Pickles. ...	33518	Curry Bros., Windsor, N.S.	2 lbs. ...	38	" " ..	Mixed Pickles ...	2-01	Trace in ash.	.....	" "
" 7	"	33519	E. B. Tracy, Halifax, N.S.	2 " ..	36	" " ..	Bulk Chow Chow..	2-55	None.	Sulphurous acid, 0.025 per 100 cc.	Chow Chow. Vegetables sound and firm.
" 7	Bottled Pickles.	33520	O'Neil & Mulcahy, Halifax, N.S.	3 bots..	30	Johnston, Baird & Co., Glasgow, N.S.	Baird's second to none.	2-65	None.	None.	Mixed pickles. Vegetables sound and firm.

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

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

July 15	Bottled Pickles.	31326	Mathew & McLean, Souris.	3 bots.	36	Fletts, Liverpool.	Choice family pickles carefully packed with select vegetables and pure vinegar	1.68	None.	Salicylic acid.	Mixed pickles. Vegetables sound and firm.
" 20	"	31327	Geo. Rackham, Charlottetown.	3 "	36	Chas. Heaton & Co., London.		1.78	None.	None.	" "
" 22	"	31328	A. M. Ross, Murray River.	3 "	75	C. Heaton & Co., London.		1.78	None.	None.	" "
" 24	"	31329	P. A. Smith, Charlottetown.	3 "	42	The Ozo Co., Ltd., Montreal.	Superior quality mixed pickles	2.14	None.	Traces of Salicylic acid.	" "
Aug. 3	"	31330	Wm. Callbeck, Central Bedouque.	3 "	60	Rowatt & Co., Liverpool & Glasgow.	Rowatt's superior pickles in pure vinegar.	2.30	None.	None.	" "
July 20	Bulk Pickles.	31331	James Kelly, Charlottetown.	1 qt.	25	H. J. Heinz, Pittsburgh, U.S.		2.55	None.	None.	Pickles. Vegetables sound and firm.
" 20	"	31332	J. H. Myrick, Charlottetown.	1 "	25	J. Winsor & Son, Boston, Mass.		2.45	None.	Sulphurous acid, 0.007 per 100 cc.	Chow Chow. Vegetables sound and firm.
" 27	"	31333	J. McQuaid, Charlottetown.	1 "	36	H. J. Heinz, Pittsburgh, U.S.	This sample of pickles is sweet.	1.98	Present in ash.	None.	Mixed pickles. Vegetables sound and firm.
Aug. 4	"	31334	F. W. Strong, Summerside.	1 "	25	Hudon, Hebert & Co., Montreal.		2.19	None.	None.	" "
" 4	"	31335	R. T. Holman, Ltd., Summerside.	1 "	25	The Ozo Co., Ltd., Montreal.		1.10	None.	None.	" "

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

July 18	Bottled Pickles.	29758	G. A. Troop & Co., St. John, N.B.	3 bots.	60	Vendors.	Acme Brand	2.65	None.	None.	Mixed pickles. Vegetables sound and firm.
Aug. 6	"	29760	Thos. Russell, Newcastle, N.B.	3 "	45	The Ozo Co., Ltd., Montreal.	Superior quality mixed pickles.	3.18	None.	None.	" "
" 7	"	29761	A. H. Marquis, Chatham, N.B.	3 "	60	A. T. Randolph & Son, Fredericton, N.S.	Heaton's Mixed Pickles.	2.80	None.	None.	" "
" 13	"	29762	Fred. E. Rose, St. Stephen, N.B.	3 "	30	The Excelsior Vinegar Co., St. John, N.B.	Old stock mixed pickles. Sold as received.	2.00	None.	None.	" "
July 18	Bulk Pickles.	29763	Geo. A. Troop & Co., St. John, N.B.	3 "	60	Vendors.	Bottles filled from bulk pickles in factory.	2.95	None.	None.	" "
" 23	"	29764	P. M. Case, St. John, N.B.	1 quart.	30	H. J. Heinz & Co., Pittsburgh, U.S.	Heinz Sour Mixed Pickles.	2.85	None.	None.	" "

BULLETIN 163—PICKLES.

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.	Conts.			Acetic anhydride per 100 cc.	Alum.	Preservatives.	
DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR— <i>Concluded.</i>											
1908.											
July 24	"	29765	W. R. Small, St. John, N.B.	1 "	40	Baird & Peters, St. John, N.B.	Heinz 2,000 Sweet Gherkins.	1.68	None.	None.	Mixed pickles. Vegetables sound and firm.
Aug. 4	"	29766	Sussex Mercantile Co., Ltd., Sussex, King's Co., N.B.	1 "	30	" " "	Heinz 3,000 Sweet Pickles.	1.89	Trace in ash.	None.	" "
" 14	"	29767	E. G. Hoben, Fredericton, N.B.	1 "	20	Ozo Co., Montreal, Canada.	.....	2.00	None.	None.	Pickles. Vegetables sound and firm.
" 18	Bottled Pickles.	29768	John Graham Estate, Woodstock, N.B.	3 bots	75	C. & E. Morton, Leadenhall St., London.	Labelled, Mixed Pickles.	2.14	None.	None.	Mixed Pickles. Vegetables sound and firm.

DISTRICT OF QUEBEC—E. BELAND, INSPECTOR

July 16	Bottled Pickles.	26473	Mederic Tramblay, Baie St. Paul.	3 bots	39	Whitead & Turner, Que.	.....	2.04	None.	Sulphurous acid.	Mixed pickles. Vegetables sound and firm.
" 16	"	26474	Arcène Larouche, Baie St. Paul.	3 "	75	" " "	.....	1.68	None.	None.	" "
" 16	"	26475	Juste Jean, Baie St. Paul.	3 "	30	Bedard & Frère, Que.	.....	2.70	None.	None.	" "
" 17	"	26478	Philippe Gagnon, Baie St. Paul.	3 "	48	Whitead & Turner, Que.	.....	2.19	None.	None.	" "
" 17	"	26481	Benjamin Simard, Baie St. Paul.	3 "	30	Nazaire Turcotte & Cie, Que.	.....	2.45	None.	Sulphurous acid.	" "
" 24	Bulk Pickles	26490	Joseph Falardéau, 271 Rue St. Joseph, P.Q.	1 quart.	15	Ozo, Montreal	.....	2.37	None.	None.	" "
" 24	"	26491	" " "	1 "	15	Heinz, Pittsburg, U.S.	.....	1.63	Trace in ash.	None.	Pickles. Vegetables sound and firm.

"	24	"	26494	J. C. Delage, 368 Rue St. Joseph, Que.	1	"	30	Ozo, Montreal	3-16	None.	None.	Mixed pickles. Vegetables sound and firm.	
"	24	"	26496	Moise Poulott, 367 Rue St. Joseph, P.Q.	1	"	20	"	2-95	None.	None.	"	
"	24	"	26498	Alphonse Laroche, 120 Rue Dorchester St., P.Q.	1	"	20	Vendor	Home made	1-94	None.	None.	"

DISTRICT OF ST. HYACINTHE—J. C. ROULEAU, INSPECTOR.

July	29	Bottled Pickles.	185	R. Dubreuil, St. Ce- saire.	3	bots.	35	.....	1-73	None.	Salicylic acid	Mixed pickles. Vegetables sound and firm.
"	30	"	186	H. F. Desmarais, 3 Marieville.	3	"	90	H. J. Heinz & Co., Pittsburg, U.S.A.	2-44	None.	None.	Chow Chow. Vegetables sound and firm.
Aug.	5	"	187	W. Murray & Co., Sherbrooke.	3	"	45	Royal Packing Co., Montreal.	2-04	Present.	Sulphurous acid.	Mixed pickles. Vegetables sound and firm.
"	6	"	188	Jos. Lesperance, Lac Megantic.	3	"	1-05	Crosse & Blackwell, London, Eng.	3-31	None.	None.	Chow Chow. Vegetables sound and firm.
"	11	"	189	Chas. Plante, Sorel.	3	"	30	Mfg. at 40 Plessis st., Montreal.	1-78	None.	Sulphurous	Mixed pickles. Vegetables sound and firm.
"	4	Bulk Pickles	190	Gosselin & Paradis, Magog.	1½	qt.	25	The Ozo Co., Ltd., Montreal.	2-04	Trace in ash.	Trace of sali- cyclic acid.	"
"	5	"	191	Couture & Moore, Sherbrooke.	1½	"	13	Not known.	1-02	"	None.	Mixed pickles. Vegetables mouldy.
"	10	"	192	E. Benoit, St. Hyacinthe.	1½	"	20	J. V. Boudrias, Mont- real.	1-58	"	Salicylic acid	Mixed pickles. Vegetables sound and firm.
"	20	"	193	F. Giroux, St. Jean, Que.	1½	"	20	H. Claprod, St. Jean	1-73	"	None.	Pickles. Vegetables sound and firm.
"	21	"	194	J. B. Nadeau, Farn- ham.	1½	"	16	The Ozo Co., Ltd., Montreal.	1-58	"	None.	Mixed pickles. Vegetables sound and firm.

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

July	16	Bottled Pickles.	32636	Ozo Co., Ltd., Mont- real.	3	bots.	25	Vendors	Taken from packed stock as prepared for shipment.	2-37	None.	None.	Mixed pickles. Vegetables sound and firm.
"	16	"	32637	J. O. Perrault & Cie, Plessis st., Mont- real.	3	"	75	"	"	2-37	None.	Sulphurous acid.	"
"	17	"	32638	O. O. Galarnaud, Wellington st., Montreal.	1	"	35	H. Bourque & fils, Montreal.	2-75	None.	None.	"

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				Quantity.	Cents.			Acetic anhydride per 100 cc.	Alum.	Preservatives.		
DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR— <i>Concluded.</i>												
1908.												
July 30	"	32639	A. Lagarde, 549 Notre Dame West, Montreal.	3	"	30	Sugars & Canners, Ltd., Montreal.	Oval Brand.....	1 73	None.	None.	Mixed pickles. Vegetables sound and firm.
" 31	"	32640	W. Delorme, 990 Ontario East, Montreal.	3	"	45	The T. A. Lyttle Co., Ltd., Toronto.	Sterling Brand....	2 24	None.	None.	" "
" 16	Bulk Pickles...	32641	Ozo Co., Ltd., Montreal.	1	qt.	25	Vendors.....	Sample taken from packed stock.	1 58	None.	None.	" "
" 16	"	32642	J. A. Perrault & Cie, Montreal.	1	"	25	"	"	1 66	None.	None.	" "
" 28	"	32643	J. D. Boileau, 54 Bonsecour st., Montreal	1	"	20	Not known.....	"	3 00	Present.	None.	" "
" 29	"	32644	M. F. Lafortune, 168 St. Maurice st., Montreal.	1	"	25	J. A. Perrault & Co., Montreal.	"	2 09	None.	Sulphurous acid.	" "
" 29	"	32645	The Wm. Davies Co., Ltd., Chabolize Square, Montreal.	1	"	30	Vendors.....	"	1 78	None.	None.	" "

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

July 11	Bottled Pickles..	22679	Coburn & Co., Pem- broke, Ont.	3	lots..	38	The Wm. Davies & Co., Ltd., Toronto, Ont.	Davies Spiced Mixed Pickles.	2 24	None.	None.	Mixed pickles. Vegetables sound and firm.
" 14	"	22680	Mrs. E. E. Harkness, Iroquois.	3	"	30	J. A. Perrault & Co., Montreal.	Select Home brand Pickles, mfg. at 40 Plessis St., Montreal.	2 29	None.	None.	" "

"	18	"	22881	John Simpson & Son, Alexandria.	3 "	45	Carter, Galbraith & Son, Montreal.	.....	2 04	None.	None.	"	"
"	23	"	22682	J. W. McDonald, Carleton Place.	3 "	75	Holbrook, Ltd., Toronto.	Pure Pickles prepared in pure malt vinegar.	3 67	None.	None.	"	"
"	25	"	22683	J. H. Shaw, Shawville, P.Q.	3 "	45	Sugars & Cannery, Ltd., Montreal.	Diamond Brand pickles. Canadian product.	1 88	None.	None.	"	"
"	22	Bulk Pickles....	22684	D. A. Younghusband, Elgin St., Ottawa, Ont.	1 qt....	30	T. A. Lyttle & Co., Toronto.	Labelled Sweet Mixed Pickles.	1 78	None.	None.	"	"
"	22	"	22685	Lavigne Bros., Cor Queen & Bridge Sts., Ottawa, Ont.	1 "	15	F. J. Castle & Co., Ottawa.	Lion L. Brand Mixed Pickles.	2 00	None.	Salicylic acid.	"	"
"	22	"	22686	Kennedy & Co., Wellington St., Ottawa, Ont.	1 "	20	T. A. Lyttle & Co., Toronto.	Mixed Pickles....	2 19	None.	None.	"	"
"	24	"	22687	A. P. Johnson, Bronson Ave., Ottawa, Ont.	1 "	30	Heinz.....	Heinz Sweet Mixed Pickles.	1 83	None.	None.	"	"
"	24	"	22688	Ellis Bros., Bronson Ave., Ottawa, Ont.	1 "	35	".....	.....	1 73	None.	None.	"	"

DISTRICT OF KINGSTON—J. HOGAN, INSPECTOR.

July	20	Bottled Pickles.	35285	Kelly Bros., Kings- ton.	3 bots.	45	T. A. Lyttle & Co., Toronto.	.....	2 04	None.	None.	Mixed pickles. Vegetables sound and firm.
"	20	"	35286	J. McCulla, Kings- ton.	3 "	45	Canada Pickling Co., Toronto.	.....	2 29	None.	Sulphurous acid.	"
"	21	"	35287	Anderson Bros., Kingston.	3 "	30	"	.....	2 00	None.	Sulphurous acid.	"
"	21	"	35288	C. H. Pickering, Kingston.	3 "	45	H. J. Heinz, Pitts- burgh, U.S.	.....	2 65	None.	Sulphurous acid.	Chow Chow. Vegetables sound and firm.
"	21	"	35280	C. Sunderson, Kings- ton.	3 "	45	C. Williams, Toronto.	.....	1 73	None.	None.	Mixed pickles. Vegetables sound and firm.
"	20	Bulk Pickles....	35290	James Redden, Kingston.	1 qt....	15	H. Loch, Guelph....	.....	2 14	None.	None.	"
"	20	"	35291	J. McCulla, Kings- ton.	1 "	35	T. A. Lyttle & Co., Toronto.	.....	2 00	None.	None.	"
"	21	"	35292	Anderson Bros., Kingston.	1 "	20	"	.....	0 61	None.	None.	Mixed pickles. Vegetables mouldy. Another bottle of this brand was sound.
"	21	"	35293	C. H. Pickering, Kingston.	1 "	30	H. J. Heinz, Pitts- burgh, U.S.	1 78	None.	None.	Mixed pickles. Vegetables sound and firm.
"	21	"	35294	J. Cullen, Kingston.	1 "	20	T. A. Lyttle & Co., Toronto.	2 60	None.	None.	"

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Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer of Furnisher, as given by the Vendor.	Inspector's Report.	RESULTS OF ANALYSIS.			Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.			Acetic anhydride per 100 cc.	Alum.	Preservatives.	
1908.											
July 29	Bottled Pickles.	35124	John Callicott, Queen St. West, Toronto.	3 bots.	30	John Callicott, Toronto.	The Genuine John Bull Pickles.	1.94	Present.	Salicylic acid.	Mixed pickles. Vegetables sound and firm.
Aug. 5	"	35125	J. L. Brown, Mc-Nabb St. North, Hamilton.	3 "	60	Thos. Lipton, Kent, London, England.	Lipton's Choice Mixed Pickles.	3.57	None.	None.	" " "
" 7	"	35126	Willard & Co., Queen St., Port Perry.	3 "	45	Canada Pickling Co., Toronto.	Mixed pickles, Keystone Brand.	2.09	None.	None.	" " "
" 7	"	35127	C. H. Crysdale & Son, Simcoe St., Oshawa.	3 "	45	H. J. Heinz Co., Pittsburgh, U.S.	Heinz Mixed Pickles.	2.96	None.	None.	" " "
" 8	"	35128	Mathison Bros., Dundas St., Whitby.	3 "	75	Maconochie Bros., Ltd., London, Eng.	Maconochie's Extra Special Pickles.	2.70	None.	None.	" " "
July 28	Bulk Pickles....	35129	The Wm. Davies Co., Ltd., Market Branch, Toronto.	1 quart.	25	The Wm. Davies Co., Ltd., Toronto.	.....	1.68	None.	None.	" " "
" 28	"	35130	The T. A. Lyttle Co., Ltd., Sterling Road, Toronto.	1 "	25	Vendors.....	.....	1.94	None.	None.	" " "
" 31	"	35131	Welsh & Co., St. Catharines.	1 "	15	The Ozo Co., Ltd., Montreal, Que.	Labelled, Mixed Pickles, Lion L. Brand.	1.71	None.	None.	" " "
Aug. 4	"	35132	G. Aute, Mary St., Hamilton.	1 "	15	Vendor.....	.....	1.58	Trace in ash.	None.	" " "
" 11	"	35133	T. H. Taylor, Niagara Falls.	1 "	25	H. J. Heinz Co., Pittsburg, U.S.	.....	1.86	"	None.	" " "

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

DISTRICT OF LONDON—T. KIDD, INSPECTOR.

July	15	Bottled Pickles.	20942	P. J. Dean, Goderich	3 bots ..	45	H. P. Eckart, Toronto.	.....	2 35	None.	None.	Mixed pickles. Vegetables sound and firm.
"	16	"	30943	Peter Dill, Dublin.	3 " ..	30	John Sloan & Co., Toronto.	.....	2 80	None.	Salicylic acid.	Mixed pickles. Vegetables sound and firm.
"	16	"	30945	T. J. Molyneaux, Dublin.	3 " ..	45	M. Masuret, London.	.....	2 04	None.	None.	" " ..
"	21	Pickled Olives..	30954	John W. Lloyd, Stratford.	3 " ..	30	Canada Spice & Grocery Co.	.....	0 07	None.	None.	Pickled olives. Vegetables sound and firm.
"	21	Bottled Pickle..	30955	Walsh Bros., Stratford.	3 " ..	45	David & Hay, Toronto.	.....	1 94	None.	None.	Mixed pickles. Vegetables sound and firm.
"	22	Bulk Pickles....	30961	Carling Bros., Exeter	1 quart.	30	Edward Adams, London.	.....	1 63	Present.	None.	" " ..
"	22	Bottled Pickles.	30963	Jones & Clark, Exeter	3 bots ..	45	A. M. Smith Co., London.	.....	1 43	None.	None.	" " ..
"	23	Bulk Pickles....	30964	William Linden, Clinton.	1 quart.	20	Not known	.....	2 45	None.	None.	" " ..
"	29	Bottled Pickles.	30967	George Thompson, Brussels.	3 bots ..	45	"	.....	2 00	None.	None.	" " ..
"	31	Bulk Pickles....	30971	J. M. Adam, St. Mary's.	1 quart.	30	H. P. Eckart & Co., Toronto.	Heinz's Pickles ...	2 00	None.	None.	" " ..

DISTRICT OF WINDSOR—J. TALBOT, INSPECTOR.

Aug.	11	Bottled Pickles..	34591	John Diprose, London.	3 bots ..	30	Canada Pickling Co., Toronto.	Shield Brand....	1 88	None.	Salicylic acid	Mixed pickles. Vegetables sound and firm.
"	12	"	34593	G. T. Carley, Lambeth.	3 " ..	46	" " "	Chow Chow.....	2 44	None.	Salicylic acid	Chow Chow. Vegetables sound and firm.
"	12	"	34594	Earle & Son, Lambeth.	3 " ..	45	Lea, Simcoe	.....	1 63	None.	None.	Mixed pickles. Vegetables sound and firm.
"	13	"	34596	J. C. Best, Strathroy	3 " ..	30	J. C. Williams & Co., Toronto.	.....	1 28	None.	None.	Mixed pickles.
"	13	Bulk Pickles....	34597	Wm. Cross, Strathroy	3 jars..	67	H. J. Heinz, Toronto	.....	1 22	Trace in ash.	None.	" "
"	14	"	34602	J. P. Rogers, St. Mary's.	3 " ..	45	Oze Co., Montreal	.....	2 12	None.	None.	" "
"	28	"	34605	Alfred Delage, Chatham.	3 " ..	45	Chas. Denne, Newmarket.	.....	2 09	None.	None.	" "
"	28	"	34606	Wm. Anderson, Chatham.	3 " ..	47	Heinz Pickling Co., Toronto.	.....	1 83	None.	None.	" "
"	28	"	34607	" " "	3 " ..	62	" " "	Sweet pickles....	2 04	Present.	None.	" "

BULLETIN No. 163—PICKLES.

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.			Acetic anhydride per 100 cc.	Alum.	Preservatives.	
1908.											
July 21	Bottled Pickles.	33167	Blackwood's, Ltd., Winnipeg.	3 bots ..	60	Vendors.....	Blackwood's sour mixed pickles, Reg. trade mark "B.B." prepared from natures vegetables.	3.00	None.	None.	Mixed pickles. Vegetables sound and firm.
" 21	"	33168	"	3 " ..	60	"	Blackwood's Chow Chow pickles prepared from choice Manitoba vegetables.	1.42	None.	None.	Chow Chow. Vegetables sound and firm.
" 21	"	33169	The White Star Mfg. Co., Winnipeg.	3 " ..	41	"	Mixed pickles.....	2.65	None.	None.	Mixed pickles. Vegetables sound and firm.
" 21	"	33170	"	3 " ..	53	"	Sweet mixed.....	2.09	None.	None.	" "
" 22	"	33171	The Dyson Co., Winnipeg.	3 " ..	35	"	Mixed pickles.....	2.29	None.	None.	" "
" 21	Bulk Pickles....	33172	Blackwood's, Ltd., Winnipeg.	1 qt....	15	"	"	3.16	None.	None.	" "
" 21	"	33173	The White Star Mfg. Co., Winnipeg.	1 " ..	25	"	Chow Chow pickles	3.21	None.	None.	Chow Chow. Vegetables sound and firm.
" 21	"	33174	"	1 " ..	25	"	Sour pickles.....	2.65	None.	None.	Mixed pickles. Vegetables sound and firm.
" 22	"	33175	The Dyson Co., Winnipeg.	1 " ..	50	"	Cucumber pickles.	2.93	None.	None.	Pickles. Vegetables sound and firm.
" 22	"	33176	"	1 " ..	50	"	Cauliflower pickles	2.29	None.	None.	" "

DISTRICT OF MANITOBA—A. C. LARIVIERE, INSPECTOR.

DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR.

Aug. 17	Bottled Pickles.	35331	Spencer & Todd, Medicine Hat.	3 bots	75 H. J. Heinz & Co., Pittsburgh, U.S.A.	2 65	None.	None.	Mixed pickles. Vegetables sound and firm.
" 19	"	35332	Hudson Bay Co., Lethbridge.	3 "	90 Unknown	3 00	None.	None.	" "
" 22	"	35333	Wilkin & Jones, Fort Saskatchewan.	3 "	75 Dyson Co., Winnipeg	2 14	None.	None.	" "
" 25	"	35334	Hudson Bay Co., Edmonton.	3 "	75 White Star Mfg. Co., Winnipeg	2 45	None.	None.	" "
" 22	"	35335	Shera & Co., Fort Saskatchewan.	3 "	1 20 Dyson Co., Winnipeg	1 94	Present.	None.	" "
" 14	Bulk Pickles.	35336	Peoples Co-op. Soc. Co., Calgary.	1 qt	35 Heinz Co., Pittsburgh.	...	None.	None.	" "
" 14	"	35337	S. G. Troeye, Calgary.	1 "	60 " "	1 83	None.	None.	Pickles. Vegetables sound and firm.
" 14	"	35338	Copas & Emerson, Calgary.	1 "	50 " "	1 27	None.	None.	" "
" 14	"	35339	Calgary Milling Co., Calgary.	1 "	25 Dyson Co., Winnipeg	3 21	None.	None.	Mixed pickles. Vegetables sound and firm.
" 14	"	35340	Wood & Green, Calgary.	1 "	90 H. J. Heinz Co., Pittsburgh, U.S.	1 83	Present.	None.	" "

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

Aug. 4	Bottled Pickles.	34330	Empress Mfg Co., Vancouver.	3 bots	45 Vendors	1 63	Present.	None.	Mixed pickles. Vegetables sound and firm.
" 4	Bulk Pickles.	34331	" " "	1 qt	35 " "	2 19	None.	None.	" "
" 5	"	34332	A. & C. Grocery, Vancouver.	1 "	40 H. J. Heinz, Pittsburgh, U. S.	2 44	None.	None.	" "
" 5	"	34333	The Woodward Dept. Stores, Vancouver.	1 "	60 Libby, McNeil & Libby, Chicago, Ill., U.S.	2 04	None.	None.	" "
" 6	"	34334	J. Donald & Co., Vancouver.	1 "	40 Brady Houston Co., Victoria, B.C.	1 38	Trace in ash.	None.	" "
" 10	"	34335	A. Macdonald Co., Vancouver.	1 "	75 The White Star Mfg. Co., Winnipeg, Man. White Star Brand. Choice.	2 50	None.	None.	" "
" 10	Bottled Pickles.	34336	Foran Bros., Vancouver.	3 bots	75 Thos. Lipton, London, Eng.	2 96	None.	Sulphurous acid 0.007 per 100 cc.	Chow Chow. Vegetables sound and firm.
" 10	"	34337	W. Clark, Vancouver.	3 "	75 Rowat & Co., Glasgow and Liverpool.	1 91	None.	None.	Mixed pickles. Vegetables sound and firm.
" 11	"	34338	Ideal Grocery, Vancouver.	3 "	75 The Wm. Davies Co., Ltd., Toronto, Can.	1 99	Present in tissue and ash.	None.	" "
" 11	"	34339	Hudson Bay Co., Vancouver.	3 "	1 20 Flaccus Bros., Wheeling W., V. A., U.S.	2 40	None.	Salicylic acid	" "

BULLETIN 163—PICKLES.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Name and Address of Manufacturer of Furnisher as given by the Vendor.	Inspector's Report.	Results of Analysis.			Remarks and Opinion of the Chief Analyst.
								Acetic anhydride per 100 cc.	Alum.	Preservatives.	

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

1908.												
July 25	Bottled Pickles.	34945	Windsor Grocery Co. 3 beds	1 05	Cross & Blackwell.	Mixed pickles.	2 68	None	None.	Mixed pickle. Vegetables sound and firm.		
" 25	"	34946	" " " 3 "	1 30	H. J. Heinz, Pittsburgh, U.S.	Heinz preserved spring mixed pickles.	2 80	None.	None.	" "		
" 22	"	34948	W. K. Houston & Co. 3 "	60	Vendors.	.....	1 73	None.	None.	" "	
" 22	Bulk Pickles.	34949	" " " 1 qt	40	"	Taken from barrel in factory.	2 60	None.	None.	" "		
" 22	Bottled Pickles.	34950	Saunders Grocery 3 beds	1 00	Holbrook & Co., London, Eng.	.....	3 47	None.	None.	" "	
" 22	"	34951	" " " 3 "	60	W. L. Lovegrove & Co., London, Eng.	.....	2 00	None.	None.	" "	
" 20	Bulk Pickles.	34954	Dixi H. Ross Co. 1 qt	50	Libby, Chicago, Ill.	.....	1 90	None.	None.	" "	
" 23	"	34959	Fred Carne 1 "	33	H. J. Heinz, Pittsburgh, U.S.	.....	1 79	None.	None.	" "	
" 23	"	34968	W. B. Hall 1 "	40	"	.....	1 73	None.	None.	" "	
" 24	"	34972	Dixi H. Ross Co. 1 "	30	"	.....	1 91	None.	None.	" "	