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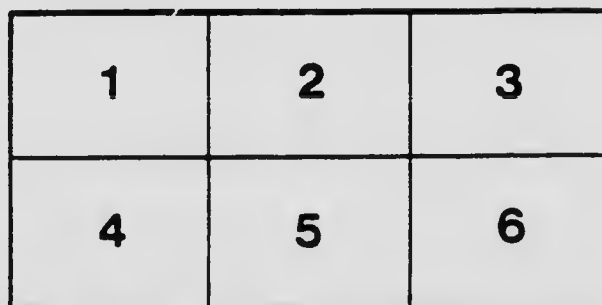
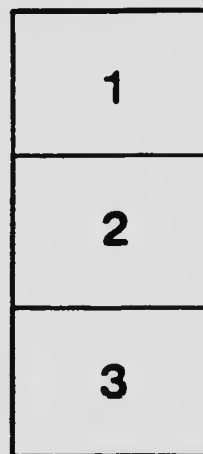
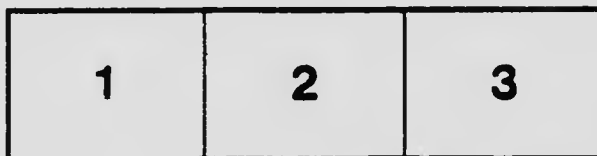
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LABORATORY
OF THE
INLAND REVENUE DEPARTMENT,

OTTAWA, CANADA,

1903.

BULLETIN No. 87.

CANNED VEGETABLES

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA.

1903

BULLETIN No. 87

CANNED VEGETABLES

OTTAWA, July 15, 1903.

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

SIR,—I have to transmit herewith enclosed, a report by Mr. McGill on the samples of Canned Vegetables which were collected in accordance with your instructions of March 27 last. The report is accompanied by a tabulated statement which describes the origin of the samples and the results obtained in their examination.

I have the honour to be, sir,

Your obedient servant,

THOMAS MACFARLANE,

Chief Analyst

OTTAWA, July 14, 1903.

THOS. MACFARLANE, Esq., F.R.S.C., &c.,
Chief Analyst, Inland Revenue Department.

Sir,—I have the honour to hand you herewith a detailed statement of the analysis of 100 samples of canned vegetables. These may be classified as follows:—

	Samples.
Canned peas	27
" corn	28
" tomatoes	14
" beans	20
" carrots	1
" beets	3
" cabbage	1
" asparagus	1
" mushrooms	1
" pumpkin	2
" squash	2
	<hr/>
	100

All of these samples were examined for chemical preservatives, but no substances of this nature were detected.

With two exceptions, all the samples were found to be in good condition. The exceptions were samples of corn, one of them (No. 21290) being but slightly decomposed, the other (No. 23135) being quite rotten and offensive.

In addition to the examination just indicated, the samples of peas were submitted to a test for copper.

Copper is stated to be normally present, in traces, in some peas. (Bull. 13, part 8, Department of Agriculture, Washington, 1893). I have determined the degree of accuracy obtainable by the method I used [electrolytic deposition on platinum (sulphuric acidulation) and subsequent solution and colorimetric valuation of the separated copper] and find that less than 60 parts per million can easily be detected, although the quantitative statement of amounts than this must be accepted with caution, and is best denoted as 'traces'.

Such traces have been found in two samples, No. 17862 and 21716. I have no evidence to show that these traces mean any intentional addition of copper for purposes of intensifying colour. A sample of French peas gave 60 parts of copper per million.

I may add that the question of the wholesomeness of peas greened with copper, is yet unsettled, but the general weight of opinion in English-speaking countries is adverse to the practice.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL.

TABLE I.—Analysis of 100 Samples of

Date of Collection.	Nature of Sample.	Number of Sample.	Name and Address of Vendor.	Quantity.	Cost.
<i>District of Halifax.</i>					8 cts.
1903.					
April 16	Canned pumpkins.....	20239	F. H. Barbeau, Yarmouth.....	3 bots.	0 30
" 18	" peas.....	20246	T. L. Harvey, Wolfville.....	3 "	0 30
" 18	" string beans.....	20248	W. T. Stephens, Wolfville.....	3 "	0 30
" 18	" corn.....	20249	".....	3 "	0 30
" 20	" tomatoes.....	20252	Murphy & Demont, Windsor, N.S.....	3 "	0 30
" 20	Wax beans.....	20259	Wentworth Stores, Ltd., Windsor.....	3 "	0 30
" 20	Canned squash.....	20260	".....	3 "	0 30
" 22	" corn.....	20301	J. H. Kent, Truro.....	3 "	0 30
" 22	" peas.....	20302	".....	3 "	0 30
" 22	" peas.....	20305	Brown & Graham, Halifax.....	3 "	0 30
" 17	Green peas.....	4320	Geo. Rackham, Charlottetown.....	3 "	0 30
" 17	Refugee beans.....	4322	L. MacNutt, Charlottetown.....	3 "	0 20
" 20	Wax beans.....	4332	Brace, McKay & Co., Charlottetown.....	3 "	0 60
" 22	Canned tomatoes.....	4336	McDonald & Westang, Georgetown.....	3 "	0 30
<i>District of New Brunswick.</i>					
April 13	Canned corn.....	17861	J. G. Lake, Union St., St. John.....	3 bots.	0 30
" 13	" peas.....	17862	W. H. Dobson, 24 Waterloo St., St. John.....	3 "	0 30
" 14	String beans.....	17872	Baird & Peters, Ward St., St. John.....	3 "	0 66
" 16	Tomatoes.....	17879	Sussex Mercantile Co., Main St., Sussex.....	3 "	0 36
" 16	Sliced sugar beets.....	17880	King, Ashbell & Co., Broad St., Sussex.....	3 "	0 30
" 16	Canned tomatoes.....	17882	J. A. Humphrey, Maple Ave., Sussex.....	3 "	0 45
" 18	" pumpkins.....	17895	G. M. & A. A. Banker, 297 Main St., Moncton.....	3 "	0 25
" 23	Rhubarb squash.....	17908	John Graham, Queen St., Woodstock.....	3 "	0 30
" 23	Sugar corn.....	17910	E. M. Campbell, Main St., Woodstock.....	3 "	0 30
" 25	Sugar peas.....	17915	W. A. Estabrook, Fredericton.....	3 "	0 27
<i>District of Quebec.</i>					
April 16	Canned tomatoes.....	23340	C. Peloquin, St. Hyacinthe.....	3 cans.	0 37
" 20	" peas.....	23346	H. Bisailon, St. Lambert.....	3 "	0 25
" 22	" peas.....	23364	R. E. Kelly.....	3 "	0 30
" 23	" corn.....	23366	H. Deslauriers, Lachine.....	3 "	0 30
" 23	" corn.....	23368	T. J. Ihynes, Lachine.....	3 "	0 45
" 29	" corn.....	23379	Ronald Piette, Berthierville.....	3 "	0 30
May 1	" tomatoes.....	23393	Victor Gervais, St. Hyacinthe.....	3 "	0 45
" 1	" peas.....	23396	Jos. Leduc, St. Hyacinthe.....	3 "	0 30
" 14	" peas.....	23398	P. C. Lemoine, Sorel.....	3 "	0 25
" 14	Pork and beans.....	23399	".....	3 "	0 15
" 14	Canned peas.....	23601	J. O. Fagnan.....	3 "	0 25
<i>District of Montreal.</i>					
May 28	Canned corn.....	21285	A. Archambault, 2,045 St. James St., St. Henri.....	3 cans.	0 25
" 28	" corn.....	21286	F. Forest, 210 St. James St., St. Henri.....	3 "	0 25
" 28	" beans.....	21287	".....	5 "	0 25
" 28	Green peas.....	21298	".....	3 "	0 25
April 29	Canned tomatoes.....	21289	A. Laing, 2,023 Notre Dame Street, Montreal.....	3 "	0 38
May 8	" corn.....	21290	E. Limoges, 1,949 Notre Dame Street, Montreal.....	3 "	0 27
" 14	" corn.....	21291	E. H. Montpetit, 227 Richelieu Street, St. Cuni- gonde.....	3 "	0 25
" 14	Green peas.....	21292	".....	3 "	0 30
" 14	Butter beans.....	21293	".....	3 "	0 25
" 14	Canned corn.....	21294	W. J. Maloney, 468 St. Antoine Street, St. Cuni- gonde.....	3 "	0 30

Canned Vegetables as sold in 1903.

Name and Address of Manufacturer or Furnisher as given by Vendor.	Name of Brand.	Preservatives.	Remarks.
Simcoe Canning Co., Simcoe, Ont.		None	Good.
A. C. Miller, Picton, Ont.		"	No copper—well preserved.
W. L. Boulter & Sons, Picton, Ont.		"	Good.
A. B. Saylor, Bloomfield, Ont.		"	"
A. C. Miller, Picton, Ont.		"	"
Simcoe Canning Co.		"	"
D. W. Hoegg & Co., Fredericton.		"	"
A. C. Miller, Picton, Ont.		"	"
"	Little Chief.	"	No copper—well preserved.
Simcoe Canning Co., Simcoe, Ont.		"	"
"	Leon.	"	Good.
"	"	"	"
"	"	"	"
"	"	"	"
D. W. Hoegg & Co., Fredericton.		None	Good.
Maritime Pure Food Co.	St. John Valley.	"	Traces of copper—well preserved.
A. B. Saylor, Bloomfield.	"	"	Good.
Reynard & Co., Baltimore.	Fox brand.	"	"
Simcoe Canning Co., Simcoe, Ont.	"	"	"
Bloomfield Canning Co.	"	"	"
Delhi Fruit and Canning Co.	'Maple Leaf'	"	"
D. W. Hoegg & Co., Fredericton.	'Dominion'	"	"
"	"	"	"
Bloomfield Canning Co.	Quaker brand.	"	No copper—well preserved.
Vendor		None	Good.
Simcoe Canning Co.	Lynn Valby.	"	No copper—well preserved.
A. C. Miller, Picton, Ont.	"	"	"
Miller & Co., Trenton.	"	"	Good.
Martin Laporte & Co., Montreal.	"	"	"
A. C. Miller & Co., Picton.	"	"	"
Simcoe Canning Co.	"	"	"
Delhi Fruit and Canning Co.	Maple Leaf.	"	No copper—well preserved.
A. C. Miller & Co., Picton, Ont.	"	"	"
W. Clark, Montreal.	"	"	Good.
Brighton Canning Co.	"	"	No copper—well preserved.
"	Queen brand.	None	Good.
"	Union brand.	"	"
"	'Red Cross'	"	"
"	'Maple Leaf'	"	No copper—well preserved.
"	Victoria brand.	"	Good.
"	Star brand.	"	Slightly decomposed.
"	Union brand.	"	Good.
Lynn Valley.	"	"	No copper—well preserved.
Lake Port Preserving Co.	"	"	Good.
"	'Canada First'	"	Good.

TABLE I.—Analysis of 100 Samples of

Date of Collection.	Nature of Sample.	Number of Sample.	Name and Address of Vendor.	Quantity.	Cost.
<i>District of Kingston.</i>					
1903.					\$ cts.
April 20	Canned wax beans.....	23131	R. T. Hamly, Walton Street, Port Hope.....	3 cans.	0 21
" 20	" tomatoes.....	23132	S. Fourt, " ".....	3 "	0 38
" 20	" corn.....	23133	" " " ".....	3 "	0 25
" 20	" sugar corn.....	23126	W. H. Hamilton, Peterboro'.....	3 "	0 25
" 20	Green peas.....	23127	" " " ".....	3 "	0 25
" 29	Canned peas.....	23128	E. Brown & Co., Peterboro'.....	3 "	0 38
" 20	" peas.....	23129	" " " ".....	3 "	0 38
" 20	" corn.....	23130	" " " ".....	3 "	0 25
" 20	" corn.....	23135	Ottawa.....		
<i>District of Toronto.</i>					
April 15	Canned corn.....	23411	Chas. Chown, 575 Yonge Street, Toronto.....	3 "	0 25
" 15	Green peas.....	23412	" " " ".....	3 "	0 25
" 15	Canned beans.....	23413	R. English, 490 Yonge Street, Toronto.....	3 "	0 25
" 15	Sweet peas.....	23414	F. Patience, 427 Yonge Street, Toronto.....	3 "	0 25
" 15	Canned corn.....	23415	" " " ".....	3 "	0 23
" 18	" corn.....	23416	J. M. Bothwell, Dunlop Street, Barrie.....	3 "	0 30
" 16	String beans.....	23417	" " " ".....	3 "	0 30
" 16	Wax beans.....	23418	James Vair, Dunlop Street, Barrie.....	3 "	0 30
" 16	Green peas.....	23419	" " " ".....	3 "	0 30
" 16	Canned tomatoes.....	23420	" " " ".....	3 "	0 45
<i>District of Windsor.</i>					
April 13	Golden wax beans.....	22049	E. O'Flaherty, Stratford.....	3 "	0 30
" 15	Canned beans.....	22066	B. B. Gunn, Seaforth.....	3 "	0 25
" 15	" peas.....	22097	" " " ".....	3 "	0 30
" 15	" corn.....	22058	" " " ".....	3 "	0 30
" 16	" peas.....	22070	A. K. Rossch, Waterloo.....	3 "	0 25
" 18	" corn.....	22078	Peter Anderson, Guelph.....	3 "	0 30
" 18	" beans.....	22079	Jackson & Son, Guelph.....	3 "	0 30
" 22	" corn.....	22060	H. Malcolmson, Chatham.....	3 "	0 25
" 23	" tomatoes.....	22096	James Wilson, London.....	3 "	0 45
" 23	" tomatoes.....	22099	Seanchett Bros., London.....	3 "	0 45
<i>District of Winnipeg.</i>					
April 15	Canned corn.....	17429	Jas. Blair Co., Morden.....		0 30
" 16	Buttered beans.....	17433	R. Cross Co., Limited, Killarney.....		0 40
" 18	Canned peas.....	17430	Hunter, Moore & Aikens, Boissevain.....		0 40
" 18	" corn.....	17440	F. G. Fox, Boissevain.....		0 40
" 21	" tomatoes.....	17443	McLellan & English, Virden.....	3 cans.	0 60
" 24	" carrots.....	17452	Smith & Burton, Brandon.....	3 "	0 45
" 24	Sugar beets.....	17451	J. P. Murray & Co., Brandon.....	3 "	0 45
" 24	Canned cabbage.....	17453	Smith & Burton, Brandon.....	3 "	0 45
" 25	" asparagus.....	17460	T. A. Newman Bros., Portage la Prairie.....	3 "	1 05
May 6	Mushrooms.....	17465	J. A. McKercher, Winnipeg.....	3 "	0 75
<i>District of Manitoba.</i>					
April 21	Canned corn.....	21712	Smith & Gaetz, Red Deer.....	3 cans.	0 45
" 23	Green peas.....	21716	Compton & Montgomery, Wetaskiwin.....	3 "	0 40
" 24	Baked beans.....	21721	J. Whitlaw, Edmonton.....	3 "	0 45
" 25	Tomatoes.....	21723	Douglas Bros., Edmonton.....	3 "	0 50
" 29	String beans.....	21730	Copas & Emerson, Strathcona.....	3 "	0 40

Canned Vegetables as Sold in 1903.—Continued.

Name and Address of Manufacturer or Furnisher as given by Vendor.	Name of Brand.	Preservatives.	Remarks.
	'Log Cabin'	None	Good.
	'White Rose'	"	"
	"	"	"
	Queen brand.	"	"
	'Little Chief'	"	No copper—well preserved.
	'Extra Faultless'	"	"
	Epicure brand.	"	"
Brighton Canning Co.	'Log Cabin'	"	"
	Thistle.	"	Much decayed.
	'Favorite brand'	"	Good.
	'Advance Sweet'	"	No copper—well preserved.
	Thistle brand.	"	Good.
Strathroy Packing Co.	"	"	No copper—well preserved.
	'Maple Leaf'	"	Good.
	'Red Cross'	"	"
	Quaker brand.	"	"
	'Blue Bell'	"	"
	Kitchner brand.	"	No copper—well preserved.
	Morton brand.	"	Good.
Oshawa Canning Co.		"	Good.
Aylmer Canning Co.	Standard.	"	Well preserved.
Vendor.		"	No copper—well preserved.
Oshawa Canning Co.		"	Good.
Randal & Rouse, Berlin.		"	No copper—well preserved.
Aylmer Canning Co.		"	Good.
Oshawa Canning Co.		"	"
Kent Canning Co.		"	"
Bloomfield Canning Co.	Quaker brand.	"	"
Indiana Packing Co.		"	"
Lalor Canning Co.		None	Good.
Delhi Fruit and Canning Co.		"	"
Strathroy Canning Co.	Middlesex.	"	No copper—well preserved.
Kent Canning Co.		"	Good.
Balfour & Co., Hamilton.		"	"
Simcoe Canning Co.		"	"
Lake Port Preserving Co.		"	"
Simcoe Canning Co.		"	"
Hickwith Asparagus Canning Co.		"	"
Dandreaux & Gaudin, Bordeaux, France.		"	"
W. Boulter & Son, Picton, Ont.		None	Good.
Perth Canning Co.	Royal Standard.	"	Traces of copper—well preserved
"		"	Good.
Aylmer Canning Co.		"	"
A. B. Saylor, Bloomfield, Ont.		"	"

TABLE I.—Analysis of 100 Samples of

Date of Collection.	Nature of Sample.	Number of Sample.	Name and Address of Vendor.	Quantity.	Cost.
1903.			<i>District of British Columbia.</i>		\$ cts.
April 16	Canned peas	21691	Coulter & Berry, Langley, B.C.		0 55
" 18	" beans	23509	Harrison River Mills, Timber and Trading Co., British Columbia.	3 cans.	0 60
" 18	" tomatoes	23512	M. Desbrisay, Mission, B.C.	2 "	0 30
" 18	" corn	23515	J. Plumridge, Mission, B.C.	2 "	0 25
" 18	" peas	23518	S. Petersky, Steveston, B.C.	2 "	0 25
" 18	" corn	23519	"	2 "	0 25
" 18	" corn	23541	S. Greenhalgh, Victoria, B.C.	3 "	0 45
" 18	" beets	23545	J. R. Jackson, Vancouver	3 "	0 45
" 18	" beans	23546	Foran Bros., Vancouver	3 "	0 30
" 18	" peas	23551	W. P. Penville, Vancouver	3 "	0 40
" 18	" peas	special		

Canned Vegetables as Sold in 1903.—*Concluded.*

Name and Address of Manufacturer or Furnisher as given by Vendor.	Name of Brand.	Preservatives.	Remarks.
Bloomfield Canning Co.		None	No copper—well preserved.
Brighton Canning Co.		"	Good.
San Bernard Packing Co.		"	"
Kent Canning Co., Chatham, Ont.		"	"
Oshawa Canning Co.	Blue Bell	"	No copper—well preserved.
Strathroy Canning Co.		"	Good.
Newton Canning Co.		"	"
Lion Gate Packing Co., Simcoe.		"	"
L. M. Schench & Co., St. Catharines		"	"
Balfour & Co., Hamilton	Tartan	"	No copper—well preserved.
French manufacture		"	Copper—60 parts metallic copper per million (=0.006 per cent)—well preserved.

