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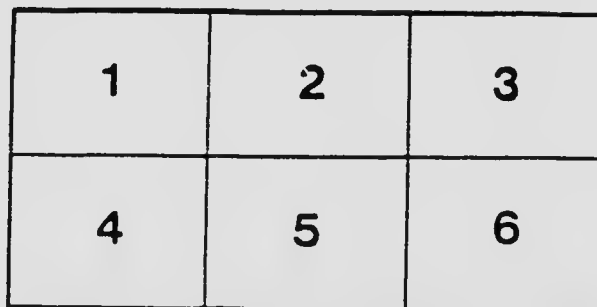
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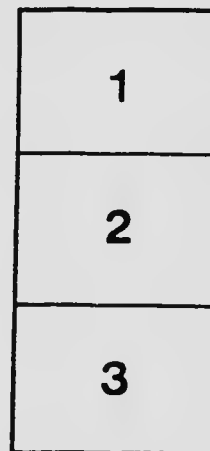
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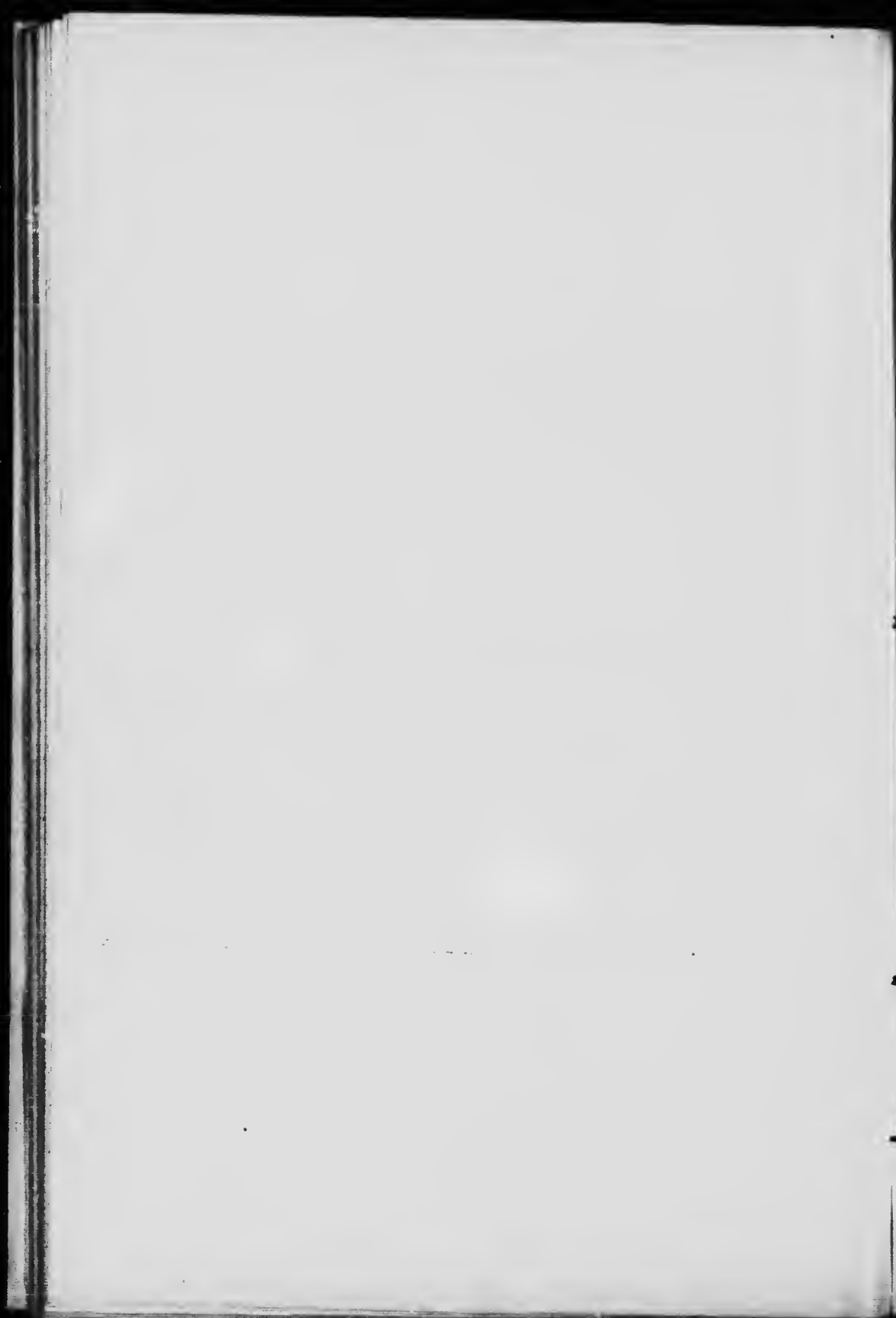
LABORATORY

OF THE

INLAND REVENUE DEPARTMENT

BULLETIN No. 104.

JAMS, MARMALADES AND JELLIES.



LABORATORY
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INLAND REVENUE DEPARTMENT
BULLETIN No. 104.
JAMS, MARMALADES AND JELLIES.

OTTAWA, June 15, 1905.

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

SIR,—I have the honour to submit a report upon Jams, Marmalades and Jellies, collected during May, in accordance with instructions contained in File 90179.

Ninety-eight samples have been analyzed in this laboratory; and the numerical results of analysis are contained in the accompanying tables. In addition to the samples analyzed, a sample of *Red Currant* (25561) was broken in transit, and the following numbers, making no claim to be fruit products, were not analyzed:

No. 20292	—calvesfoot jelly.
" 22281	} Gelatine package jelly powders.
" 22283	
" 22285	
" 22287	
" 22289	
" 22290	
" 24686	

The samples analyzed are classified as follows:—

Jams —		6 samples
	Black currant.....	2 "
	Gooseberry.....	10 "
	Peach.....	10 "
	Plum.....	15 "
	Raspberry.....	12—55
	Strawberry.....	14
Jellies.....		29
Marmalades..		—
	Total.....	98

Table I gives, as usual, the source of each sample, and a statement of claims made regarding it. Succeeding tables give, in detail, the results of analysis.

I may remark that the column headed "Residual Cane Sugar" has reference only to that portion of the cane sugar added which is not inverted by the operations of manufacture, and is no indication of the amount of cane sugar originally added. The next column "Non-Cane Sugar Solids"—contains more or less of the cane sugar, now changed into *invert sugar*, together with glucose, or other matters used in manufacture.

The percentage amount of glucose stated in the "Remark" column is derived from considerations which are more fully given in Bull. 96 (revised) pp. 18 and 19. As there explained, the quantity of glucose is only approximated, and must not be considered accurate within 5 to 10 per cent. My conclusion as given, is always a conservative one.

The subjoined table gives a synopsis of the results of analysis:—

Articles.	Kind.	Total number of Samples.	Found Genuine.	Containing Glucose.	Containing Preservatives.	Containing Dyes.
Jam.....	Black currant.....	6	2	4	3	3
	Gooseberry.....	2	0	2	0	0
	Peach.....	10	1	9	1	0
	Plum.....	10	1	9	1	0
	Raspberry.....	15	5	10	3	9
	Strawberry.....	12	3	9	3	6
	Total.....	55	12	43	11	18
Marmalade.....		29	13	16	1	3
Jelly.....		14	8	6	3	8
	Total.....	98	33	65	15	29

It will be seen that of the total number of samples examined:—

66 per cent contained glucose.
 15 " " preservatives.
 30 " " dyes.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,

Acting Chief Analyst.

INSPECTION OF JAMS AND JELLIES—TABULATED STATEMENT (D).

Date of Collection.	Nature of Sample	No. of Sample.	Name and Address of Vendor.	Covr.		Name and Address of Manufacturer or Furnisher as given by Vendor.	Inspector's Remarks.
				Quantity.	Price.		
1905.					\$ cts.		
			<i>District of Nova Scotia—R. J. Waugh, Food Inspector.</i>				
May	2 Black currant jam.	20288	W. C. Anderson, Halifax, N.S.	3 jars	0 45	Douglas McIntosh, Toronto.	
"	2 Peach jam.	20289	H. W. Weitzell & Co., Halifax, N.S.	"	0 25	J. W. Windsor, Montreal.	Sold as Coronation brand.
"	2 Marmalade, orange	20290	C. G. & Hodgson, Halifax, N.S.	"	0 30	McTavish, Toronto.	
"	2 Raspberry jam.	20291	E. W. Crease, Halifax, N.S.	"	0 40	Pure Food Company, Toronto.	
"	2 Calves foot jelly.	20292	W. J. Hopwood, Halifax, N.S.	"	0 50	E. Lassenby & Son, London, Eng.	
"	2 Marmalade, orange	20293	R. Urquhart & Son, Halifax, N.S.	"	0 60	Jas. Keiller & Son, Dundee, Scotland	
"	"	20294	Jam Hogan, Halifax, N.S.	"	0 38	Upton, Toronto.	
			<i>District of Prince Edward Island—T. Moore, Food Inspector.</i>				
"	3 Plum jam	24425	Waugh & Stevens, Summerside.	3 qts.	0 48	J. A. Perreault, Montreal.	
"	3 Marmalade.	24426	J. H. Lock, Summerside.	3 jars	0 48	T. A. Lytle, Toronto.	
"	4 "	24429	R. F. Madigan, Charlottetown.	3 crocks.	0 36	Upton.	
"	4 Raspberry jam	24430	Bur & Co., Charlottetown.	"	0 45	J. W. Windsor, Montreal.	
"	4 Marmalade.	24431	Jenkins & Son, Charlottetown.	3 qts.	0 51	Pure Food Mfg. Co., Toronto.	
"	4 Plum jam	24432	S. R. F. Maddigan, Charlottetown.	3 crocks.	0 45	R. F. Maddigan, Charlottetown.	
			<i>District of New Brunswick—C. G. Gagnon, Food Inspector.</i>				
May	2 Grape jelly	22886	King, Abell & Co., Queen St., Sussex, N.B.	3 jars	0 36	E. D. Smith, Winona, Ont.	
"	2 Orange marmalade	23900	J. T. Ryan, 254 Main St., Moncton, N.B.	3 "	0 45	"	
"	9 Black currant jam.	24003	St. John, N.B.	3 "	0 48	Liptons, London, Eng., G. R.	
"	11 Raspberry jam.	24005	Jas. Burgess & Son, Grand Falls, N.B.	3 "	0 45	The Simcoe Canning Co., Simcoe, Ont.	
"	12 Strawberry jam.	24008	Sullivan Bros., Woodstock, N.B.	3 "	0 26	The McCormick Mfg. Co., London, Ont.	
"	15 Apple jelly.	24012	E. G. F. Fen, cor. York and King Sts., Fredericton.	3 "	0 45	Upton.	Did not guarantee purity; sold as received.
"				"	0 90	Mrs. Joby Ferguson, Ba.ony Dumfries Parish, N.B.	

INSPECTION OF JAMS AND JELLIES—TABULATED STATEMENT (1)—Continued.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Coer.		Name and Address of Manufacturer or Furnisher as given by Vendor.	Inspector Remarks.
				Quantity.	Price.		
1946.							
			<i>District of Quebec—(See Mulrooney, Food Inspector.)</i>				
April 21	Raspberry jam.	25008	N. Moisan, Quebec, Que.	3 pkgs.	0 30	Jos. Lamoignon, Montreal.	
"	Plum jam.	25009	"	3 "	0 30	"	
"	Strawberry jam.	25010	"	3 "	0 30	"	
"	"	25011	"	3 "	0 30	"	
"	Raspberry jam.	25012	"	3 "	0 30	Paquet et Paquet, Montreal.	
"	Plum jam.	25013	"	3 "	0 30	"	
"	Marmalade.	25014	"	3 "	0 30	Upton, Toronto.	
"	Marmalade.	25015	N. Moisan, Quebec.	3 pkgs.	0 45	T. A. Lytle, Toronto.	
"	"	25016	"	3 "	0 60	"	
"	"	25017	"	3 "	0 45	Sberrill, Toronto.	
			<i>District of St. Hyacinthe—J. C. Rouleau, Food Inspector.</i>				
"	Strawberry jam.	24685	P. Morin, Actonville.	3 cans	0 30	Cartier, Galbraith & Co., Montreal.	
"	Orange jelly.	24686	R. J. Leroux, Roxton Falls.	3 pkgs.	0 35	Pure Food Mfg. Co., Toronto.	
"	Peach jam.	24687	Eliezer Turpeon, Roxton Falls.	3 glasses	0 15	Huson, Orsault, Montreal.	
"	Strawberry jam.	24688	A. Thibaudreau, Stanfold.	3 cans.	0 45	L. Chaput et fil., Montreal.	
"	Crooseberry jam.	24689	Avard & Nadeau, Beauce Junction.	3 glasses	0 45	A. B. Dupuis, Quebec.	
May 1	Lime fruit marmalade.	24690	E. Goyette, Cowansville.	3 "	0 60	B. G. G. & Co., London, Eng.	
"	Upton's black currant jam.	24691	McNamara & Jones, Bedford, Que.	3 "	0 50	F. Les Breaux, Montreal.	
"	Upton's orange marmalade.	24692	J. F. Rollard, Bedford, Que.	3 "	0 30	L. Chaput, fils et cie, Montreal.	
"	Plum jam.	24693	Ed. Kerysch, St. Alexander of Berville.	3 pkgs.	0 75	J. A. Ferrault, Montreal.	
"	Upton's plum jam.	24694	R. Gould, St. Jean, Que.	3 glasses	0 30	Hudson, Hébert et cie, Montreal.	

INSPECTION OF JAMS AND JELLES—TABULATED STATEMENT (1.)—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 Vendor.	Inspectors Remarks.
				Quantity.	Price.		
1905.				\$	cts.		
May	5 Raspberry.....	26575	<i>District of Toronto—J. J. Costigan, Food Inspector—Con.</i>	3 jars.		Pure Gold Mfg. Co.....	
"	5 Red currant jelly.....	26576	" "	3 "	0 75	" "	
"	5 Marmalade.....	26577	" "	3 "	0 30	McGregor's, Toronto.....	
"	5 Strawberry jam.....	26578	" "	3 "	0 60	Lipton's, Ltd.....	
"	5 Raspberry preserves.....	26579	" "	3 "	0 54	McGregor's, Toronto.....	
"	1 Sherriff jelly.....	22281	<i>District of London—T. Kidd, Food Inspector.</i>	3 pks.		Imperial Extract Co., Toronto.....	
"	1 Peach jam.....	22282	Beck & Schell, Berlin, Ont.....	3 "	0 30	Lumsden, Hamilton.....	
"	1 Jelly, Pure Gold.....	22283	Stuebing & Co., Berlin, Ont.....	3 "	0 30	Pure Gold Mfg. Co., Toronto.....	
"	1 Jam, raspberry flavour.....	22284	George Hasenflug, Waterloo, Ont.....	3 "	0 25	Canada Preserving Co., Hamilton	
"	2 Jelly powder.....	22285	A. K. Roesch, Waterloo, Ont.....	3 "	0 30	Hinderford, Smith & Co., Toronto.....	
"	2 Orange marmalade.....	22286	Jackson & Son, Guelph, Ont.....	3 "	0 30	Hamilton Coffee & Spice Co., Hamilton	
"	2 Jelly, Lipton's.....	22287	A. J. Fitzsimmons, Guelph, Ont.....	3 "	0 25	Upton, Toronto.....	
"	2 Graham's marmasade.....	22288	J. A. McCrory, Guelph, Ont.....	3 "	0 25	Lipton, London, Eng.....	
"	2 Jelly, Pure Gold.....	22289	J. A. McRey, Guelph, Ont.....	3 "	0 30	Canada Preserving Co., Hamilton	
"	3 Royal Jelly powder.....	22290	McKay Bros., Georgetown.....	3 "	0 30	Pure Gold Mfg. Co., Toronto.....	
May	4 Marmalade.....	22291	Josephs Kidd, Ahtone, Ont.....	3 pots	0 30	F. F. Dalley & Co., Hamilton.....	
"	5 Upton's jam.....	22292	J. Edward & Son, Beeton, Ont.....	3 "	0 30	Upton, Toronto.....	
"			(Geo. Gordon, Tottenham, Ont.....	3 "	0 30	Canada Grocery Co., Hamilton.....	
"			<i>District of Manitoba—W. M. Conklin, Food Inspector.</i>				
"	2 Jam.....	23068	M. R. Schumann, Virdon, Man.....	3 jars	0 60	The Canada Preserving Co.....	
"	2 Jelly.....	23069	Frank Higgins, Virdon.....	3 "	0 45	The Canada Biscuit Co., Toronto.....	
"	2 Jelly.....	23070	Chingham, Seales & Wilcox, Virdon.....	3 "	0 60	E. D. Smith, Winona, Ont.....	
"	4 Marmalade.....	23071	A. Grant, Brandon.....	3 "	0 60	T. A. Lyttle & Co., Toronto.....	

"	"	4 Jelly.....	2372 W. J. Young, Brandon.....	3 "	0 30 The Dyson Gibson Co., Winnipeg.....
"	"	4 Jelly.....	2373 Smith & Burton, Brandon.....	3 "	0 75 Macnochie Bros., London, Eng.....
"	"	11 Marmalade.....	<i>District of Calgary—R. W. Fletcher, Food Inspector.</i>		
"	"	11 Peach jam.....	21795 Husson Bay Co., Edmonton.....	3 pots	0 75 James Keiller & Son, Scotland.....
"	"	11 Strawberry jelly.....	21796 Revillon Bros., Edmonton.....	3 "	0 60 Upton's, Hamilton, Ont.....
"	"		21797 W. F. Stuebker, Edmonton.....	3 "	0 75 Aylmer Canning Co., Aylmer.....
"	"		<i>District of British Columbia—E. B. Parkinson, Food Inspector.</i>		
"	"	7 Plum jam.....	24982 H. Lee, Vancouver.....	3 5-lb pails	1 60 Chinax Empress Mfg. Co., Vancouver.....
"	"	8 Currant jelly.....	24984 Mrs. Duff, 910 Western Ave., Van- couver.....	3 pots	0 45 Cutting Packing Co., San Francisco, U.S.....
"	"	8 Strawberry jelly.....	24985 E. Clayton, Vancouver.....	3 "	0 60 Empress Mfg. Co., Vancouver.....
"	"	8 Raspberry jam.....	24986 S. T. Wallace, Vancouver.....	3 jars	0 75 Mefer Long, San Francisco.....
"	"	8 Marmalade.....	24987 Langdale & Co., Vancouver.....	3 "	0 45 Baker Leeson & Co., Vancouver.....
"	"	8 Strawberry jam.....	24989 Labelle & Co., Vancouver.....	3 tins	0 45 J. W. Windsor, Montreal.....
"	"	8 Raspberry jam.....	24990 Clarke & Rogerson, Vancouver.....	3 jars	0 75 Bishop & Co., Los Angeles, Cal.....
"	"	8 Peach jam.....	24991 J. Deal, Vancouver.....	3 tins	0 30 Simcoe Canning Co., Simcoe, Ont.....

TABLE II.—BLACK CURRANT

Serial Number.	Collector's Number.	SOLIDS, PER CENT.			Water.	SACCHARIMETER READINGS— NORMAL WEIGHT TO 100CC.			Residual Cane Sugar. (Clerget.)	Soluble Matter, other than Cane Sugar.
		In-soluble.	Soluble.	Total.		Direct.	Invert.	Difference.		
1	2028	4.16	63.9	68.1	31.9	+83.5	+72.1	11.4	8.5	55.4
2	24003	3.69	59.7	63.4	36.6	+71.5	+52.8	18.7	13.9	45.8
3	24691	1.10	69.6	70.7	29.3	+51.9	+26.7	25.2	18.0	51.6
4	25290	1.78	59.3	61.1	33.9	+41.2	+24.3	16.9	12.6	46.7
5	26562	10.28	52.9	63.2	36.8	+13.8	-16.8	30.6	22.9	40.0
6	26558	14.28	56.0	70.3	29.7	-2.1	-18.7	16.6	12.3	43.6
7	25561	.....	.....	.....	.....	.....	.....	.....	.....	.....

GOOSEBERRY

8	24680	2.90	55.0	57.9	42.1	+98.4	+93.0	5.4	4.3	50.7
9	26569	3.06	45.8	48.9	51.1	+18.5	+7.6	10.9	8.2	37.6

TABLE III.—PEACH

10	20280	1.63	67.5	69.1	30.9	+88.0	+66.7	21.3	15.9	51.6
11	21796	1.31	67.8	69.1	30.9	+45.5	+13.8	31.7	23.6	44.2
12	22282	12.00	53.5	65.5	34.5	+52.0	+22.5	29.5	22.0	31.5
13	22292	1.96	47.3	49.2	50.8	+40.7	+22.1	18.6	13.8	33.5
14	23895	7.30	47.6	54.9	45.1	+20.9	-13.4	34.3	25.6	22.0
15	24687	7.10	55.5	62.6	37.4	+60.1	+49.4	10.7	7.1	48.4
16	24991	2.89	58.2	61.1	38.9	+63.3	+43.3	20.0	14.9	43.3
17	25285	1.53	59.6	61.1	38.9	+27.4	+12.7	14.7	15.4	44.2
18	25291	6.98	59.2	66.2	33.8	+75.7	+63.7	12.0	9.0	50.2
19	26568	1.94	65.4	67.3	32.7	+32.0	+1.9	30.1	22.4	43.0

JAM, JUNE, 1905.

Preservatives.	Dyes.	Remarks.
Salicylic acid..	None. . .	Contains about 45 per cent glucose and a preservative. No label.
None.	Present...	Contains about 35 per cent glucose and is dyed. Labeled 'Black Currant Jam, Pure, the Lennox Canning Co., Simcoe, Ont.'
"	None.....	Contains about 20 per cent glucose. Labeled 'Upton's Black Currant Jam.'
Salicylic acid..	"	Contains about 20 per cent glucose and a preservative. Labeled 'Upton's Black Currant Jam.'
None.	Present...	Genuine fruit and sugar. Is dyed. Labeled 'Black Currant Preserves,' E. D. Smith's Fruit Farms, Winona, Ont.
Benzoic acid..	"	Genuine fruit and sugar. Contains benzoic acid and is dyed. Labeled 'Black Currant,' 'Absolute Purity,' 'Pure Gold.'
.....	.....	Sample broken in carriage.

JAM

None	None. . .	Contains about 50 per cent glucose. Labeled 'Gardner Brand,' 'Erie Gooseberry.'
"	"	Contains about 20 per cent glucose. Labeled 'Gooseberry—finest quality guaranteed—Upton's home made.'

JAM, JUNE, 1905.

.....	None.....	Contains about 40 per cent glucose. 'Coronation Pure Fruit Jam, J. W. Windsor, Montreal.'
None.....	"	Marked 'Pure Fruit Compound.' Contains about 15 per cent glucose. Labeled 'Upton's Peach Jam.'
"	"	Marked 'Pure Fruit.' Contains about 20 per cent glucose. Labeled 'Peach Jam, Pure Fruit—Preserved by Standard Canning Co., Hamilton.'
"	"	Contains 15 to 20 per cent glucose. Labeled 'Upton's Peach Jam.'
"	"	Genuine. Labeled 'E. D. Smith's Peach Jam,' Fruit Farm, Winona, Ont.
Benzoic acid..	"	Contains about 30 per cent glucose. No label.
None.....	"	Contains about 30 per cent glucose and a preservative. Labeled 'Simcoe Peach, Pure Jam'—The Simcoe Canning Co., Ont.
"	"	Marked 'Pure Fruit.' Contains about 15 per cent glucose. Labeled 'Confitures de Pêches—A. Anatolle, Bayenz, France. France E. Doufour, seul agent, Montreal.'
"	"	Contained 1 peach stone per 100 grammes. Contains about 40 per cent glucose. Labeled 'Queen City Brand, Peach Jam—The Toronto Jam and Pickle Co., Toronto.'
"	"	Marked 'Finest Quality.' Contains about 10 per cent glucose. Labeled 'Upton's Home-made Peach Jam—Guaranteed.'

TABLE IV.—PLUM

Serial Number.	Collector's Number.	SOLIDS, PER CENT.			Water.	SACCHARIMETER READINGS— NORMAL WEIGHT TO 100cc.			Residual Cane Sugar. (Clerget.)	Soluble Matter, other than Cane Sugar.
		In- soluble.	Soluble.	Total.		Direct.	Invert.	Differ- ence.		
20	22292	5.58	63.8	69.4	30.6	+ 46.3	+ 36.2	10.1	7.5	56.3
21	24425	6.60	66.7	73.3	26.7	+ 65.9	+ 47.6	18.3	13.5	40.0
22	24433	3.01	59.0	62.0	38.0	- 7.6	- 11.6	4.0	3.0	56.0
23	24684	3.78	53.6	57.4	42.6	+ 32.9	+ 9.5	23.4	16.7	36.9
24	24693	6.73	66.8	73.5	26.5	+ 77.7	+ 62.9	14.8	11.0	55.8
25	24982	0.60	64.	65.2	34.8	+ 70.1	+ 45.7	24.4	18.2	46.4
26	25280	4.16	54.9	59.1	40.9	+ 28.1	+ 6.8	21.3	15.9	39.0
27	25292	7.32	54.4	61.7	38.3	+ 68.9	+ 67.8	1.1	0.8	53.6
28	26009	8.50	57.4	65.9	34.1	+ 49.2	+ 44.5	4.7	3.5	53.9
29	26013	8.16	55.1	63.3	36.7	+ 96.8	+ 33.8	3.0	2.2	52.9

TABLE V.—RASPBERRY

30	20291	6.47	58.2	64.7	35.3	+ 5.2	- 17.6	22.8	17.1	41.1
31	23968	1.23	44.5	45.7	54.3	+ 41.8	+ 30.5	11.3	8.4	36.1
32	24005	2.09	63.0	65.1	34.9	+ 52.5	+ 38.1	14.4	10.7	52.3
33	24430	1.17	50.0	51.2	48.8	+ 68.6	+ 53.3	15.3	11.4	38.6
34	24986	3.77	69.9	73.7	26.3	+ 86.7	+ 81.5	5.2	3.1	66.8
35	24990	7.18	45.9	53.1	46.9	+ 5.9	- 9.8	15.7	11.7	34.2
36	25283	1.13	56.2	57.3	42.7	+ 28.6	+ 11.4	17.2	12.8	43.4
37	26008	4.60	56.3	60.9	39.1	+ 66.2	+ 45.8	20.4	15.2	41.1
38	26012	2.02	62.4	65.3	34.7	+107.0	+103.4	3.6	2.7	59.7
39	26560	3.85	60.3	64.2	35.8	+ 32.2	+ 18.7	13.5	10.0	50.3
40	26563	3.13	71.0	74.1	25.9	+106.2	+ 81.9	24.3	18.1	52.9
41	26571	2.56	41.1	43.7	56.3	+ 46.7	+ 34.3	12.4	9.3	31.8
42	26573	2.64	70.7	73.3	26.7	+ 20.8	- 23.7	44.5	33.2	37.5
43	26575	4.37	58.6	63.7	37.0	+ 14.5	- 19.0	33.5	25.0	33.6
44	26579	13.57	47.9	61.5	33.5	+ 10.0	- 13.1	23.1	17.2	30.7

JAM—JUNE, 1905.

Preservatives.	Dyes.	Remarks.
None.....	None.....	Four stones per 100 grammes. The duplicate of this number is a peach jam. Contains about 30 per cent glucose.
None.....	None.....	Four stones per 100 grammes. Marked 'Compound.' Contains about 35 per cent glucose. Labelled 'Finest pure, healthful jams and jellies, compound, J. A. Perreault, 50 Rue Plessis, Montreal.'
None.....	None.....	Three stones per 100 grammes. Genuine. Labelled 'Home-made preserves, warranted pure, boiled with granulated sugar, R. F. Maddigon, Charlottetown.'
None.....	None.....	Three stones per 100 grammes. Marked 'Pure fruit, compound.' Contains about 15 per cent glucose.
Salicylic acid..	None.....	Four stones per 100 grammes. Marked 'Compound.' Contains about 40 per cent glucose and a preservative. Labelled 'De Salaberry plum jam, compound, J. A. Perreault, Montreal.'
None.....	None..	No stones present. Marked 'Mixture.' Contains about 36 per cent glucose. Labelled 'Plum jam, Climax brand, jam and jellies, Vancouver, B.C.'
None.....	None.....	Three stones per 100 grammes. Marked 'Finest quality.' Contains about 10 per cent glucose. No label.
None.....	None.....	Five stones per 100 grammes. Contains about 45 per cent glucose. Labelled 'Banner brand plum jam, Montreal Canning and Preserving Co.'
None.....	None.....	Seven stones per 100 grammes. Contains about 35 per cent glucose. No label.
None.....	None.....	Four stones per 100 grammes. Contains about 50 per cent of glucose. Labelled 'Ont. plum jam, prepared by Paquet & Paquet, Montreal.'

JAM—JUNE, 1905.

Benzoic acid..	Present ..	Genuine, but contains benzoic acid, and is dyed. Labelled 'Raspberry jam, absolute purity, pure gold.'
None.....	Present ..	Marked 'Absolutely pure, compound.' Contains about 25 per cent glucose, and is dyed. Labelled 'Graham's Lily brand raspberry jam, pure compound, Canning and Preserving Co., Hamilton.'
None.....	Present ..	Contains about 25 per cent glucose, and is dyed. Labelled 'Raspberry jam, The McCormick Mfg. Company, London, Canada'
Salicylic acid..	Doubtful..	Contains about 40 per cent glucose and a preservative. Labelled 'Castle brand choice jams and jellies, prepared by J. W. Windsor, Montreal.'
None.....	Present ..	Contains about 50 per cent glucose, and is dyed. No label.
None.....	None.....	Genuine. Labelled 'Bishop & Co. raspberry jam.'
None.....	Present ..	Marked 'Pure fruit, compound.' Contains about 15 per cent glucose, and is dyed. Labelled 'Raspberry jam, Upton's jams, pure fruit, compound.'
None.....	None.....	Contains about 30 per cent glucose. No label.
None.....	None.....	Contains nearly 55 per cent glucose. Labelled 'Ont. raspberry jam, prepared by Paquet & Paquet, Montreal.'
None.....	Present ..	Contains about 20 per cent glucose, and is dyed. No label.
None.....	Present ..	Contains about 50 per cent glucose, and is dyed. Labelled 'Raspberry, pure fruit jam, preserved by Standard Canning Co., Hamilton.'
None.....	Present ..	Marked 'Pure fruit, compound.' Contains about 25 per cent glucose, and is dyed. Labelled 'Pure fruit, raspberry, compound, Standard Canning Co., Hamilton.'
None.....	Doubtful..	Labelled 'E. D. Smith's raspberry preserves, fruit farms, Winona, Minn.'
None.....	Present ..	Genuine. Contains about 15 per cent glucose, and is dyed. No label.
Salicylic acid..	None.....	Genuine. Containing a preservative. Labelled 'McGregor (trade mark) preserves, Toronto, Ont.'

TABLE VI.—STRAWBERRY

Serial Number.	Collector's Number.	SOLIDS, PER CENT.			Water.	SACCHARIMETER READING— NORMAL WEIGHT IN 100CC.			Residual Cane Sugar. (Cierget.)	Soluble Matter other than Cane Sugar.
		In-soluble.	Soluble.	Total.		Direct.	Invert.	Difference.		
45	22284	9.22	46.5	55.7	44.3	+26.7	+14.6	12.1	9.0	37.5
46	24008	1.10	68.4	69.5	30.5	+45.1	+27.9	17.2	12.8	55.6
47	24685	2.35	35.5	38.4	61.6	+ 2.6	-11.8	14.4	10.7	24.8
48	24688	2.81	21.5	24.3	75.7	- 4.3	- 6.0	1.7	1.3	20.2
49	24989	1.16	68.1	69.3	30.7	+91.8	+76.2	15.6	11.6	56.5
50	25284	3.54	56.0	59.5	40.5	+105.7	+92.4	13.3	9.9	46.1
51	25293	1.14	48.8	49.9	50.1	+68.5	+58.9	9.6	7.1	41.7
52	26010	8.30	57.8	66.1	33.9	+23.5	+46.8	22.7	17.0	40.8
53	26011	4.60	59.3	63.9	36.1	+97.1	+90.8	6.3	4.7	54.6
54	26564	0.36	52.2	53.6	46.4	+24.7	+12.0	12.7	9.5	43.7
55	26572	0.98	45.2	46.2	53.8	+76.5	+70.5	6.0	4.4	40.8
56	26578	3.56	69.2	72.8	27.2	+34.6	-15.2	49.8	37.2	32.0

JAM, JUNE, 1905.

Preservatives.	Dyes.	Remarks.
Benzoic acid.	Present.	Contains about 15 per cent glucose; a preservative and a dye. Labeled 'Strawberry Jam', J. Hungerford Smith Co., Ltd., Toronto.
None	None	Contains about 25 per cent glucose. Labeled 'Upton's Strawberry Jam.'
"	"	Genuine. No label.
"	"	Genuine. Is preserved with a minimum of sugar. Labeled 'Strawberry Jam', K. B. Morien & S. Hagerman, Belleville, Ont.
Salicylic acid.	"	Contains about 50 per cent of glucose and a preservative. Labeled 'Ice Castle Brand', Choice Jams and Jellies, J. Windsor, Montreal.
None	"	Contains about 50 per cent glucose. Labeled 'Strawberry, Queen City Brand Jam and Jelly', 224 Dorchester St. Quebec.
Salicylic acid.	Present.	Contains about 40 per cent glucose; a preservative and a dye. Labeled 'Strawberry Homestead Jam', packed from selected fruit, Paquet & Co., Montl.
None	"	Contains about 30 per cent glucose and is dyed. No label.
"	None	Marked 'Compound'. Contains about 50 per cent of glucose. Fig seeds are present.
"	Present.	Contains about 15 per cent glucose and is dyed. Labeled 'Strawberry Pure Fruit Jam', Standard Canning Co., Hamilton.
"	"	Marked 'Pure' and 'Compound'. Contains about 40 per cent of glucose and is dyed. Labeled 'Graham's Lily Brand Strawberry', absolutely pure compound, Hamilton.
"	"	Genuine fruit and sugar. Is dyed. Labeled 'Lipton's Strawberry Jam', M. F. Lipton, Ltd., London.

TABLE VII.—MARMALADES

Serial Number.	Collector's Number.	SOLIDS, PER CENT.			Water.	POLARIMETER READINGS— NORMAL WEIGHT IN 100CC.			Residual Cane Sugar. (Clerget.)	Soluble Matter other than Cane Sugar.
		In-soluble.	Soluble.	Total.		Direct.	Invert.	Difference.		
1	20290	1.8	61.7	63.5	36.5	+15.6	-18.3	33.9	25.3	36.4
2	20293	1.7	70.0	71.7	28.3	+28.2	-21.0	49.2	36.7	33.3
3	20294	1.7	64.0	65.7	34.3	+60.0	+18.5	41.5	30.9	33.1
4	21795	2.1	70.0	72.1	27.9	+21.6	-19.0	40.6	30.3	39.7
5	22286	2.3	72.0	74.3	25.7	+84.9	+28.6	56.3	42.0	30.0
6	22288	0.9	72.0	72.9	27.1	+94.1	+45.7	48.4	36.1	35.9
7	22291	1.6	68.0	69.6	30.4	+67.6	+26.7	40.9	30.5	37.5
8	23071	1.2	74.0	75.2	24.8	+65.8	+45.4	20.4	15.2	58.8
9	24001	2.3	70.0	72.3	27.7	+29	-10.4	39.9	29.8	40.2
10	24426	1.2	60.0	61.2	38.8	+43.3	+38.1	5.2	3.8	56.2
11	24429	2.0	68.0	70.0	30.0	+59.4	+25.6	33.8	25.2	42.8
12	24432	0.5	56.0	56.5	43.5	+6.9	-14.5	21.4	16.0	40.0
13	24690	0.8	68.0	68.8	31.2	+22.7	+8.5	14.2	10.2	57.8
14	24692	2.1	66.8	68.9	31.1	+71.0	+24.8	46.2	34.4	32.4
15	24687	0.7	65.8	66.5	33.5	+21.8	+20.8	1.0	0.7	65.1
16	25282	.....	.....	.....	.....	+41.6	-20.9	62.6	46.6	.....
17	25286	.....	.....	.....	.....	+10.4	-17.2	27.6	20.6	.....
18	25287	1.7	63.7	65.4	34.6	+27.4	-18.0	45.4	33.8	29.9
19	26014	3.2	65.0	68.2	31.8	+49.1	+11.8	37.3	28.0	37.0
20	26015	3.4	53.2	56.6	43.4	+3.3	-19.3	22.6	17.0	36.2
21	26016	1.1	62.6	63.7	36.3	+0.4	-20.1	20.5	16.0	46.6
22	26017	2.0	62.7	64.7	35.3	+20.3	-20.8	41.4	30.7	32.0
23	26559	1.2	68.7	69.9	30.1	+76.9	+29.0	47.9	35.7	33.0
24	26570	1.3	67.4	68.7	31.3	+99.6	+61.0	38.6	28.6	38.8
25	26574	4.0	68.2	72.2	27.8	-6.9	-13.7	6.8	5.0	63.2
26	26577	2.0	61.6	63.6	36.4	+8.7	-15.2	23.9	1.8	59.8
27	I.	1.6	64.0	65.6	34.4	+36.0	+8.8	27.2	20.3	43.7
28	II.	1.5	58.5	60.0	40.0	+19.0	-9.4	28.4	21.1	37.4
29	III.	1.3	65.5	66.8	33.2	+40.5	-15.4	55.9	41.7	23.8

JUNE, 1905.

Preservatives.	Dyes.	Remarks.
None.....	None.....	Genuine. Labelled 'McGregor (trade mark) Marmalade'. Toronto.
".....	".....	Genuine. Labelled 'James Keiller & Son, Ltd., Dundee Marmalade', Burns & Harris, Great Britain.
".....	".....	Contains about 20 p.c. glucose. Labelled 'Dundee Upton's Orange Marmalade'.
".....	".....	Genuine. 'James Keiller & Sons Dundee Marmalade.'
".....	".....	Contains about 25-30 per cent glucose. Upton's Orange Marmalade, Pure Fruit Compound.
".....	".....	Contains about 35 per cent glucose. Graham Lily Brand Marmalade, Absolutely pure, Canning and Preserving Co.
".....	".....	Contains about 35 per cent glucose. Upton's Orange Marmalade, Compound.
".....	Present..	Contains about 40 per cent glucose and is dyed. Orange Marmalade, Trade Mark, 'Sterling', T. A. Lytle & Co., Toronto.
".....	None.....	Contains about 10 per cent glucose. Lipton's Orange Marmalade. Lipton's, Ltd., Preserve Works, London, England.
".....	Present..	Contains about 35 per cent glucose and a dye. Orange Marmalade Sterling Brand. T. A. Lytle & Co., Toronto.
".....	None.....	Contains about 20-25 per cent glucose. Upton's Orange Marmalade.
".....	".....	Genuine. Balmoral Marmalade, Toronto.
Salicylic acid..	".....	Contains about 10 per cent glucose and a preservative. Lime Fruit Marmalade.
None.....	".....	Contains about 20-25 per cent glucose. Orange Marmalade.
".....	".....	Contains at least 25 per cent glucose. Balmoral Marmalade, Toronto.
".....	".....	Genuine. 'Mrs. Luke's Delicious Homemade Grape Fruit Marmalade.'
".....	".....	Genuine. 'Mrs. Luke's Delicious Homemade Marmalade.'
".....	".....	Genuine. Currie's Homemade Marmalade.
".....	".....	Contains about 20 per cent glucose. Upton's Orange Marmalade, Compound.
".....	Present..	Genuine but contains a dye. Orange Marmalade Sterling Brand. T. A. Lytle & Co., Toronto.
".....	None.....	Genuine. Shirreff's Shredded Orange Marmalade, Toronto.
".....	".....	Genuine. Shirreff's Imperial Scotch Marmalade, Toronto.
".....	".....	Contains about 30 per cent glucose. Graham's Lily Brand Orange Marmalade, Compound, Canning and Preserving Co., Hamilton.
".....	".....	Contains about 35-40 per cent glucose. Graham's Lily Brand Marmalade, Canning and Preserving Co., Hamilton.
".....	".....	Genuine. McLaughlin's Huelva Marmalade, Toronto.
".....	".....	Genuine Marmalade.
".....	".....	Contains about 10 per cent glucose.
".....	".....	Contains a little glucose.
".....	".....	Genuine.

TABLE VIII.—FRUIT

Serial Number.	Collector's Number.	Description.	Dry Solids.	Water.	SACCHARIMETER READING— NORMAL WEIGHT TO 100CC.			Residual Cane Sugar. (Claret.)	Non-Cane Sugar Solids.
					Direct.	Invert.	Difference.		
1	23,969	Red Currant.....	58.3	41.7	+25.0	-19.4	44.4	33.0	25.3
2	23,970	".....	56.7	43.3	-2.8	-18.7	15.9	11.9	44.8
3	23,973	".....	62.6	37.4	+5.9	-18.0	23.9	17.5	45.1
4	24,984	".....	60.7	39.3	+84.9	+52.1	32.8	24.2	45.5
5	26,561	".....	64.3	35.7	+13.0	-22.5	35.5	26.5	37.8
6	26,576	".....	62.6	37.4	-2.6	-14.9	12.3	9.1	53.5
7	24,912	Apple.....	53.9	46.1	+8.1	-26.6	34.7	26.0	27.9
8	25,288	".....	58.9	41.1	+6.9	-15.9	22.8	16.7	42.2
9	23,900	Grape.....	54.1	45.9	-10.9	-20.1	9.2	6.9	47.2
10	21,797	Strawberry.....	65.2	34.8	+25.1	+5.4	19.7	14.6	50.6
11	24,985	".....	67.8	32.2	+67.4	+37.3	30.1	22.5	45.3
12	26,557	".....	63.2	36.8	+11.4	-11.8	23.2	17.3	45.9
13	23,972	Raspberry.....	66.4	33.6	+131.0	+118.4	12.6	9.4	57.0
14	26,557	".....	63.9	36.1	+20.6	-8.0	28.6	21.3	42.6

JELLY, JUNE, 1905.

Preservatives.	Dyes.	Remarks.
None.....	Present..	Genuine, but contains a dye. Pure Jelly, Red Currant, Canada Biscuit Co., Ltd.
".....	None.....	Genuine. E. D. Smith's Red Currant Jelly. Fruit Farms, Winona.
".....	".....	Genuine. Suffolk Jams, Jellies. Macouchie Bros., London, England.
Salicylic acid..	Present..	Contains about 40 per cent. glucose, a preservative and a dye. Currant Jelly.
None.....	".....	Genuine, but contains a dye. Red Currant Jelly. Sterling Brand. T. A. Lytle & Co., Toronto.
".....	".....	Genuine, but contains a dye. Red Currant. Absolute purity. Pure gold.
".....	None.....	Genuine. Apple Jelly.
".....	".....	Genuine. Apple Jelly.
".....	".....	Genuine. E. D. Smith's Grape Jelly. Fruit Farm. Winona, Ont.
".....	Present..	Contains about 10 per cent. glucose and a dye. Canada First Strawberry Jelly, Aylmer Canning Co., Hamilton.
Salicylic acid..	None.....	Contains about 30 per cent. glucose and a preservative, and labelled Strawberry Jelly, Victoria Cross. The W. H. Malkin Co., Ltd., Vancouver.
None.....	Present..	Contains a little glucose and a dye. Canada First. Red Raspberry Jelly. Aylmer Canning Co., Hamilton.
Salicylic acid..	".....	Contains fully 10 per cent. glucose, a preservative, and a dye.
None.....	".....	Contains a little glucose, and is artificially dyed. Canada First. Red Raspberry Jelly. Aylmer Canning Co., Hamilton.

