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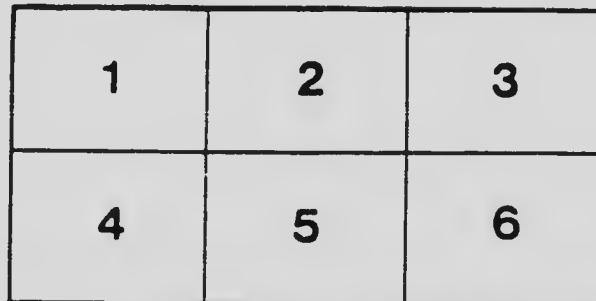
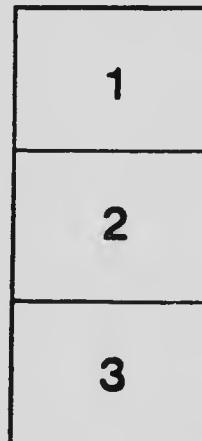
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LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

BULLETIN No. 224

Tomato Catsup.

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA.

BULLETIN No. 224

Tomato Catsup.

OTTAWA, May 30, 1911.

W. J. GERALD, Esq.

Deputy Minister of Inland Revenue.

SIR,—In June and July of last year a collection of Tomato Catsup was made, ten samples being obtained in each of fifteen inspectorial districts.

The samples in question were all examined by my assistants and reported to me; but the records were believed to have been destroyed in the fire of 4th January last; which also destroyed the samples themselves.

The recovery of part of the reports on these samples of catsup makes it possible to hand you this fragmentary record; which possesses certain features of interest that may justify its publication.

In the cases of the following districts, the analytical records are totally lost, viz:—

	Samples.
Nova Scotia	10
Prince Edward Island	10
New Brunswick	8
Kingston	10
London	1
Manitoba	1
Vancouver	1
Victoria	10
Total lost	75

The present report, therefore, includes as follows:—

	Samples.
District of Quebec	10
" St. Hyacinthe	10
" Montreal	10
" Ottawa	10
" Toronto	10
" Windsor	10
" Manitoba	5
" Calgary	10
Total.....	75

Catsup is rather to be regarded as a condiment, i.e., a seasoning for food than as a food proper; for which reason a consideration of the total nutriment derivable from the article would be out of place. The value of a catsup is to be judged rather by its palatability, . . . its effectiveness as a stimulant to appetite, than by its nutritive quality.

If however, tomato catsup derive, in any degree, its value from the actual amount of fruit splices and other solid matters used in its production, there is room for astonishment at the great variability in dry solids found in the 75 samples now reported. The total solid matter varies from less than 5 per cent (No. 1349) to above 30 per cent. (Nos. 45089 and 43782) of the weight of the article. The mineral solids (chiefly salt) vary from 0·68 per cent to 3·82 per cent.

Bulletin No. 129 (Dec. 1906) contains a report upon 49 samples of tomato catsup, and in these a variation of from 7·44 p.c. to 29·04 p.c., was noted in total solids; while the mineral matter (ash) varied from 1·60 to .66 per cent. It is worthy of note that the highest ash is not found in those samples which give highest total solid matter.

Under the regulations made in conformity with the Pure Food Law of the United States, catsup is defined as "The clean, sound product, made from the properly prepared pulp of clean, sound, fresh, ripe tomatoes, with spices, and with or without sugar and vinegar."

This definition is very incomplete, inasmuch as it contains nothing quantitative. It would seem reasonable to insist upon a certain minimum amount of fruit, and perhaps of spices, in catsup. The definition quoted possesses, however, one important and valuable feature, in that it insists upon the pulp being clean and sound, and prepared from clean, sound, fresh and ripe fruit. Many convictions have been obtained against manufacturers whose catsup has been found mouldy, rotten or swarming with bacteria. (See notices of judgment 156, 388, &c.). But even here there is a difficulty, since an absolutely sterile catsup is practically impossible. It would seem well to fix upon a bacterial limit, beyond which the article would be illegal. Section 3 (e) of our Adulteration Act is quite as precise as the definition above quoted.

All of the 75 samples reported were found to be in good condition, and free from moulds or decay.

Three (3) samples contained salicylic acid as a preservative; forty-six (46) contained benzoic acid, and six (6) contained sulphurous acid or sulphites. These last were, of course, artificially coloured.

Coal tar dyes were found in 54 cases. There is no greater objection to harmless colouring matter in catsup than in candy. But a suspicion naturally arises that the colour may be used to conceal inferiority in the article, since it is well known that the use of fresh and ripe tomatoes renders a dye unnecessary; and in fact, some of the most attractively coloured samples herein reported were found to be free from dyes.

The question of fixing a standard for tomato catsup must receive consideration in due course; and a collection to supplement that herein reported, will be made as soon as work in hand permits.

This report is belated, for reasons already given. The work contained in it belongs to the fiscal year ending March 31, 1911.

I beg to recommend its publication as Bulletin 224.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

"	24	"	1351	Ed. Lacroix, Coati	3	"	60	Granathan Canning Co., St. Catharines.		20·46	3·14	1·12	"	"	None	"	1331
"	27	"	1352	J. V. Fagnan	3	"	45	Griffith Catsup Co., Dunn- ville.		8·60	1·70	0·50	"	"	Present	"	1332
"	28	"	1353	E. Nouri, St. Gre	3	"	35	The Ozo Co., Ltd., Mon- treal.		14·16	2·46	1·49	None	"	None	"	1333
"	29	"	1354	Poire de Nicolet	"	"	30	Joe Lameroux & Cie, Montreal.		7·26	1·92	1·11	Present	"	Present	"	1334
"	30	"	1355	J. Petit, Vic	3	"	30	The Ozo Co., Ltd., Mon- treal.		15·66	3·20	0·98	None	"	Present	"	1335
July	11	"	1356	J. A. Rousseau	3	"	30	Quebec Preserving Co., Quebec.		8·88	1·98	0·62	"	"	"	"	1356
"	12	"	1357	J. V. Laviole	3	"	30	Sugars & Canners Ltd., Montreal.		19·54	1·44	1·24	"	"	"	"	1357
"	19	"	1358	J. M. Jacques	3	"	50	H. Bourque & Fils, Mon- treal.		14·64	1·34	1·36	None	"	None	"	1358
				Gauthby	"	"		D. Richard, St. Denis R. ver,									
				J. Rich.	"	"		H. Bourque & Fils, Mon- treal.									

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

June 17	Tonato Catsup		39947	A. Rochon, 453 Rots	30	H. Bourque & Fils, Mon- treal				13·52	1·46	1·36	None	None	None	None	39947	
"	17	"	39948	T. Gougeon, 368 "	30			"Canada first"		13·40	3·00	1·47	Present	"	"	"	39948	
"	18	"	39949	W. Randfont & 3 "	45			"Empress" Brand.		10·58	1·30	"	"	"	"	"	39949	
"	20	"	39950	D. Hétu, St. Agathe	3	"	35			"Puritan" Brand.	11·28	1·42	0·80	"	"	"	"	39950
"	21	"	39951	L. V. Girardeau, 3 "	45			"Signal" Brand.		20·80	3·40	1·30	"	"	"	"	39951	
"	21	"	39952	Rigaud, P.Q.	45					10·14	3·82	1·06	"	"	Present	"	39952	
July	5	"	39953	E. Rigaud, P.Q.	3	"	45	W. Lorain, Bon à Pouffe, P.Q.		15·14	3·50	1·74	"	"	"	"	39953	
"	5	"	39954	E. Perron, St. Lant	3	"	30	Griffith Catsup Co., Dunn- ville, Ont.									39954	
"	5	"	39955	E. Perron, St. Lant	3	"	15	"Oval Brand"		17·28	2·50	0·99	"	"	"	"	39955	
"	5	"	39956	M. Viger, Lant	"	"	75	"Sussex Brand"		14·48	1·34	1·18	None	"	None	"	39956	
								Cincinnati, Ohio		19·20	1·90	0·99	"	"	Present	"		

BULLETIN No. 224—TOMATO CATSUP.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cost.	Inspector's Report. (Is not an expression of opinion.)	Results of Analyses.				
							Total Acid.	Acidity Acid.	Total Ash.	Acidity Ash.	
1910.							p.c.	p.c.	p.c.	p.c.	
June 15	Tomato Catsup.	43046	D. A. Youngusband, Elgin St., Ottawa.	3 Bots	30	Canada Preserving Co., "Graham's Lily" Brand, Hamilton.	20.14	2.28	1.48	Present.	
" 20	"	43047	J. F. Burrows, 3 O'Connor St., Ottawa.	3 "	50	H. N. Rate & Sons, Ottawa. Mfg. by T. A. Lytle Co., Ltd., Toronto.	13.04	2.00	1.24	"	
" 20	"	43048	S. W. Lee, Elgin 3 St., Ottawa.	3 "	75	Snider's Home made catsup mfd. by T. A. Snider Co., Cincinnati, Ohio, not artificially colored	20.04	3.20	1.12	None.	
" 20	"	43049	E. W. Richardson, 3 Elgin St., Ottawa.	3 "	30	The Turner Co., Ltd., "Turner" Brand, Toronto.	19.78	1.84	0.62	Present.	
" 21	"	43050	Alex. Phillips, Son, 3 Forrest St., Ottawa.	3 "	30	The T. A. Lytle Co., Ltd., "Canada Brand" 18.36	0.80	0.81	"	Present.	
" 22	"	43051	Leacy & Shields, 3 Pembroke.	3 "	35	H. N. Rate & Sons, Ottawa. "Graham's Lily" Brand mfd. by Canada Preserving Co., Hamilton.	18.70	1.00	1.73	None.	Present.
" 22	"	43052	Fenton & Smith, 3 London, Ont.	3 "	75	Gorman, Eckert & Co., Brand House made Co., up	16.70	3.26	1.16	Present.	Present.

DISTRICT OF OTTAWA—J. A. RICKEN—INSPECTOR.

No. of Sample.	Quality Acid.	Acidity Acid.	Total Ash.	Acidity Ash.	Preservative.	No. of Sample.	Quality Acid.	Acidity Acid.	Total Ash.	Acidity Ash.	Preservative.	No. of Sample.
43046	"	"	"	"	"	43047	"	"	"	"	"	43048
43048	"	"	"	"	"	43049	"	"	"	"	"	43050
43050	"	"	"	"	"	43051	"	"	"	"	"	43052
43052	"	"	"	"	"							

" 22 " .. 4362 Fenton & Smith, 3 " 75 Gorman, Eckert & Co., "Forest City" Brand Home made C_{o.} up

ilton.
London, Ont.

" 28 "	" ..	4363 Mullin Bros., Mor. 3 "	45 Wm. Galbraith & Son, Mfd. by T. A. Montreal.
July 4 "	" ..	4364 Geo. O. Elder, Mary 3 "	45 Unknown " Hillcrest" Brand.
" 11 "	" ..	4365 Wm. Rhodes, 3 "	30 Gilmour & Co., Brockville, "Canada First" prepared by Ayliner Canning Co., Aylermer, Ont.

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

June 16	Tomato	Catsup.	45057 A. Harris & Uxbridge.	45 Wm. Galbraith & Son, Mfd. by T. A. Lytle Co., Ltd., Toronto.
" 18 "	" ..	45088 Geo. O. Elder, Mary 3 "	45 Unknown " Hillcrest" Brand.	
" 21 "	" ..	45089 James Kennedy, 3 "	30 Gilmour & Co., Brockville, "Canada First" prepared by Ayliner Canning Co., Aylermer, Ont.	
" 23 "	" ..	45090 John Chapman, 3 "	30 The Ayliner Canning Co., Ayliner, Ont.	
" 29 "	" ..	45091 Ward & Co., Gerard St. E., Toronto.	30 Burlington Canning Co., "Burlington" Brand.	
" 29 "	" ..	45092 R. J. Poyntz, Dundas St. W., Toronto.	45 H. J. Heinz Co., Pitts. Heinz Tomato Catsup contains no artificial preservative or coloring.	
" 30 "	" ..	45093 C. H. Crydale, 3 "	30 Jno. Sloan & Co., Toronto, "Defiance" Brand.	
July 4 "	" ..	45095 Thomas Haywood, 3 "	30 Ingemar Canning & Preserving Co., Ingersoll.	
" 5 "	" ..	45096 T. O. Fielding, 3 "	45 Green & Co., Toronto, Native.	
" 5 "	" ..	45097 J. D. Cummings, 3 "	30 Napanee Canning Co., Ltd., "Canadian Price" Napanee.	
			30 The Bradford Canning Co., "Vernon" Brand.	
			45 The T. A. Lytle Co., Ltd., "Canada" Brand.	
			45 The North Land Mfg. Co., Home-made choice tomato catsup.	

DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.

June 20	Tomato	Catsup..	42322 A. H. Scarff & Co., 3 Bots Essex.	35 Wm. Davies & Co., Tce. Davies Tomato Catsup, onto, Toronto.
" 20 "	" ..	42323 Thos. A. Kennedy, 3 "	45 T. A. Lytle Co., Toronto, "Canada" Brand.	19 16 2.28 0.99 Pre-sent.

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BULLETIN No. 224—TOMATO CATSUP.

Date of Collection.	No. of Sample.	Nature of Sample.	Name and Address of Vendor.	Quantity.	Cost.	Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.					
							Total Ash.	Acidity stated in Ash.	Salt Acid.	Benzene Acid.	No. of Sample.	Pre-sent.
DISTRICT OF WINDSOR—INO. TALBOT, INSPECTOR—Concluded.												
1910.							p.c.	p.c.	p.c.	p.c.		
June 21 Tomato Catsup.	42325	Geo. E. Fox, Leamington.	Canada Spice & Grocery Co., London.	30	16·96	3·28	1·05	Pre-	None.	Pre-	None.	42325
" 21 "	42326	Geo. M. Sawyer, Leamington.	Heinz Catsup.	45	28·64	3·74	1·92	None.	"	Pre-	None.	42326
" 21 "	42328	Robinson Bros., Leamington.	Imperial Spice Co., Hamilton.	30	12·68	2·10	0·80	Pre-	"	"	"	42328
" 22 "	42329	C. G. Moore, Charlton.	Tillbury Canning Co., Tillbury, Ia.	30	13·90	2·34	0·62	"	"	Pre-	"	42329
" 24 "	42335	Jno. Durose, London.	Gorman Eckert & Co., London.	30	14·34	1·98	1·43	"	"	Pre-	"	42335
" 24 "	42336	J. T. May, London.	Brand Homemade Tomato Catsup.	40	14·24	2·08	2·64	"	"	"	"	42336
" 27 "	42345	T. McKay, London.	Imperial Spice Co., Hamilton.	30	12·32	2·36	0·50	"	Pre-	None.	"	42345
" 27 "	42350	Wm. Longhey, London.	London Canning Co., London.	30	12·28	2·22	0·74	"	None.	"	"	42350
DISTRICT OF MANITOBA—A. C. LARIVIÈRE, INSPECTOR.												
July 11 Tomato Catsup.	33898	J. Lenzak, Logan.	Blackwood Ltd., Winnipeg Ave.	3600 lbs.	45	16·86	3·26	1·49	None.	Pre-	None.	36898
June 22 "	43501	S. G. Pubble.	The T. A. Lytie Co., Ltd., Sterling Brand, Toronto.	3 "	45	sup.						43501

July 11	Tomato Catsup.	33898 J. Lezaack, Logan Ave., Winnipeg.	Logan 3 Bots.	45	Blackwood Ltd., Winnipeg	sup.	Blackwood Cat.	16:86	3:36	1:49	None.	Pre-	None.
June 22	"	423501 S. G. Preble, Note D name Ave., Winnipeg.	3 "	45	The T. A. Lytle Co., Ltd., Toronto.	Toronto.	Sterling Brand.	.....	.....	.....	.....	sent.	35898 43501

" 23	"	43577 C. Collins & Munro, Miami.	Minneapolis, 3 Bots.	15	The Meadow Canning Co., Vernon Tomato Catsup.	.....	.....	.....	.....	.....	.....	.....	43502
" 27	"	43503 G. T. Hoyes, Elmwood.	Elmwood, 3 Bots.	45	The Dyson Co., Winnipeg.	Dyson Red Cross Brand.	.....	.....	.....	.....	.....	.....	43503
" 27	"	43504 J. H. McGrath, Elmwood.	Elmwood, 3 "	45	T. A. Lytle, Ltd., Toronto	Sterling Brand.	.....	.....	.....	.....	.....	.....	43504
" 28	"	43505 J. Paterson, Portage Ave., Winnipeg.	Portage Ave., Winnipeg, 3 "	75	T. A. Snider Preserve Co., Cincinnati, Ohio.	.....	.....	.....	.....	.....	.....	.....	43505
" 29	"	43506 Passikov & Zearoff, Weston.	Weston, 3 "	45	Blackwood, Ltd., Winnipeg	.....	.....	.....	.....	.....	.....	.....	43506
July 6	"	43507 Gregory & Co., St. James.	St. James, 3 "	45	The Tilbury Canning Co., Ltd., Tilbury, Ont.	.....	11:36	2:40	0:43	Pre-	None.	Pre-	43507
" 7	"	43508 A. Figgens, Elgin, Man.	Elgin, 3 "	75	The Dyson Co., Winnipeg.	Red Cross Tom.ato Catsup.	12:14	3:34	1:24	0:	0:	0:	0:	43508
" 8	"	43509 Ross & Cunningham, Elgin, Man.	Elgin, Man., 3 "	75	Delhi Canning Co., Delhi, Epicene Brand, One.	19:35	2:12	0:72	None.	0:	0:	0:	43509
" 11	"	43510 W. A. Wales, 3 Nena St., Winnipeg.	Winnipeg, 3 "	75	Van Camp Packing Co., Indianapolis, U.S.A.	26:40	3:60	1:92	0:	0:	0:	0:	43510

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

July 5	Tomato Catsup.	43781 Graddock & Viner, Lethbridge.	3 Tins	40	Delhi Fruit & Vegetable Canning Co., Delhi, Ont.	.....	.....	21:46	2:00	0:33	None.	Pre-	None.
" 5	"	43782 Hudson Bay Co., 3 Bots.	1:00	40	Heinz, Pittsburgh, Pa.	.....	.....	30:70	2:60	1:86	0:	0:	0:
" 13	"	43783 R. Dunn, Medicine Hat.	Medicine Hat.	60	Gorman, Eckert & Co., Ltd., London, Ont.	.....	.....	15:70	1:90	1:35	Pre-	0:	0:
" 13	"	43784 The D. Milne Co., Ltd., Medicine Hat.	Medicine Hat.	1:00	Curtiss Bros., Rochester, N.Y.	.....	.....	18:26	3:56	0:87	None.	0:	0:
" 22	"	43785 W. H. Hayes, Calgary.	Calgary, 3 "	75	Aylmer Canning Co., Aylmer, Ont.	.....	.....	16:26	3:00	1:12	Pre-	0:	0:
" 22	"	43786 E. A. Rosser, Cal.	Cal. 3 Tins	40	"	.....	.....	8:78	2:68	1:55	0:	0:	0:
Aug. 8	"	43787 C. E. Compton, Wetaskiwin.	Compton, 3 Bots	90	T. A. Snider Co., Cincinnati, Ohio.	.....	.....	21:30	2:28	1:18	None.	0:	0:
" 8	"	43788 Thibaudien Trad. Co., Wetaskiwin.	Wetaskiwin, 3 "	105	Van Camp Packing Co., Indianapolis, Ind.	.....	.....	26:06	3:66	1:80	0:	0:	0:
Aug. 9	"	43789 Douglas Bros. Ltd., Strathcona.	Strathcona, 3 "	45	Gorman, Eckert & Co., London, Ont.	.....	.....	15:22	2:52	0:99	Pre-	None.	0:
" 10	"	43790 A. Livingston, Edmonton.	Livingston, 3 "	75	Van Camp Packing Co., Indianapolis, Ind.	.....	.....	26:10	3:10	1:92	None.	0:	0:

