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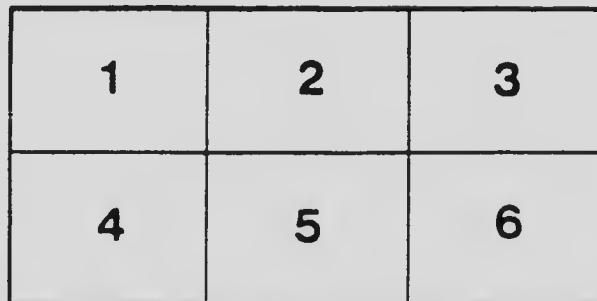
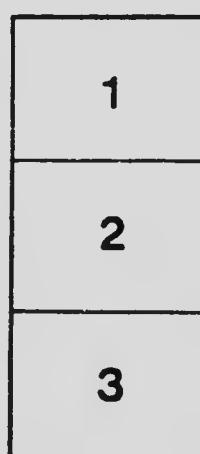
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LABORATORY

OF THE

INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 283

ALE (BEER)

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LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

BULLETIN No. 283

ALE (BEER)

OTTAWA, March 26, 1914.

W.M. HIMSWORTH Esq.,
Deputy Minister Inland Revenue.

SIR.—I beg to hand you a report dealing with 75 samples sold as Ale or Beer. These were obtained by our inspectors throughout Canada in September, October and November of last year.

Table I. Shows the sources of the samples; the prices paid for them, the names of manufacturer or furnisher and remarks made by the inspector.

Table II. Gives the numerical results of analysis in the same order as that of the samples in Table I.

Table III. Contains the numerical results of analysis arranged in such order as to render comparable among themselves those obtained with ales of similar name. With regard to this table it is to be observed that the same manufacturer may offer ales of different brands or strengths or quality, so that it may not in every case, mean actual carelessness in manufacture when the analytical results obtained with ales which appear in juxtaposition in this table, show considerable differences. It may be that the information furnished to us with the samples was insufficient to make evident these different brands.

This explanation is made as just to the manufacturer; but a careful study of the Table III, shows that, among different samples of ale having the same nominal origin, a decided similarity is found. This must be taken to indicate a systematic method obtaining in manufacture, and great care taken in the following out of such method.

An Order in Council of February 8, 1911 (published as Circular G. 947) defines malt liquors, as follows :—

6. MALT LIQUORS AND MALT BEVERAGES.

1. Malt Liquor is a beverage made by the alcoholic fermentation of an infusion, in potable water, of barley malt and hops.

2. Ale or beer is a beverage produced by top fermentation of an infusion, in potable water, of barley malt and hops; with or without other starchy and saccharine matters, and contains in one hundred (100) cubic centimetres (20° C.) not less than two and seventy-five one-hundredths (2.75) grammes of alcohol (equivalent to six (6) per cent by volume of proof spirits), nor less than three and one half (3.5) grammes of extract), and not less than eleven one-hundredths (0.11) grammie of ash, chiefly potassium phosphate.

3. Porter and stout are varieties of ale or beer made in part from highly roasted malt, or barley, and agree, in other respects, with the requirements for ale and beer.

4. Lager Beer, is beer produced by bottom fermentation which contains, in one hundred (100) cubic centimetres (20° C.) not less than three and one half (3.5) grammes of extractive matter and eleven one-hundredths (0.11) grammie of ash, chiefly potassium phosphate, and not less than two and fifty-one hundredths (2.50) grammes of alcohol, equivalent to four and four-tenths (4.4) per cent by volume, of proof spirits.

5. Light Beer, is a beer containing in one hundred (100) cubic centimetres, at 20° C. less than two grammes of alcohol (equivalent to less than four and four-tenths (4.4) per cent by volume of proof spirits).

Except in its minimum alcohol value it will be seen that lager beer is defined with the same constants as ale.

The extractive matter is slightly below legal requirements in 7 samples, and decidedly low in 8 samples of the present collection.

It is hoped that a study of the analytical numbers herein placed on record will enable us to so interpret them as to arrive at a judgment regarding the mode of manufacture of ales, and the materials employed. This difficult problem is now engaging the attention of other chemists, and some encouraging results have been obtained. In order to its solution it will be necessary to make experimental research upon ales of known origin; and it has been found impossible with my limited staff, to carry the work to completion.

In order that these analytical data may be available to those interested, I would respectfully advise publication of the report as Bulletin No. 283.

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

A. MCGILL,
Chief Analyst.

BULLETIN No. 283—ALE (BEER)—TABLE I.

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. (Is no an expression of Opinion).
				Quantity	Cents	Manufacturer	Furnisher.	

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

Oct.	22	Ale . . .	54301 Halifax Breweries, Ltd., Halifax, N.S.	3 bota.	Nil.	Vendors . . .	.....	India Pale Ale.
	22	" . . .	54302 Kelley & Glassey, Halifax, N.S.	3 " . .	40	McEwen, Ed. inborough, Scot.	Mfr . . .	Scotch Ale.
	22	" . . .	54303 " " . .	3 " . .	45	Bass & Co., London, Eng.	G. C. Hibberts & Co., London, Eng.	Pale Ale.
	22	" . . .	54304 A. Keith & Son, Halifax, N.S.	3 " . .	Nil.	Vendors . . .	.....	"
	22	" . . .	54305 Oland & Son, Halifax, N.S.	3 " . .	"	.....	.....	"

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

Sept.	20	Ale (Beer)	50362 Simeon Jones, Ltd., St. John, N.B.	3 bots.	50	Vendors . . .	.....
	21	" . . .	50363 Ready's Breweries, Ltd., St. John, N.B.	3 " . .	50	" . . .	.....	Ready's Pale Ale. Diamond R.
	29	" . . .	50364 Comeau & Sheehan, St. John, N.B.	3 " . .	75	Alexander Keith & Son, Halifax, N.S.	.....	Nova Scotia Brewery. "Veritas Vincent."
	29	" . . .	50365 John Labatt, Ltd., St. John, N.B.	3 " . .	60	John Labatt, Ltd., London, Ont.	.....	India Pale Ale.
	29	" . . .	50366 R. Sullivan & Co., St. John, N.B.	3 " . .	75	Bass & Co., Burton Trent, Eng.	.....	India Pale Ale. "Hawk's Head."

DISTRICT OF QUEBEC—F. X. W. E. BELAND, INSPECTOR.

Sept.	23	Ale (Beer)	56144 G. Pepin, 132 Rue Massue, Quebec.	3 bots.	37	Fox Head, Quebec.	Mfr . . .	
	23	" . . .	56145 " " . .	3 " . .	37	Brasserie & Chapplein, Quebec.	" . . .	
	23	" . . .	56146 " " . .	3 " . .	42	Bossell, Quebec.	" . . .	
	23	" . . .	56147 " " . .	3 " . .	32	Fox Head, Quebec.	" . . .	
	23	" . . .	56148 O. Bacon, 28 Rue Hermine, Quebec.	3 " . .	40	Bossell, Quebec.	" . . .	

BULLETIN No. 283 ALE (BEER).—TABLE I.

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. (Is not an expression of Opinion.)
					Quantity.	Cents.	

DISTRICT OF THREE RIVERS—DR. V. P. LAVALLÉE, INSPECTOR

1913.

Sept. 19	Ale	59726	A. La Caisse, Ber. 3 bots. Lachine, Thierville.	15	Dawes Co., Lachine.		
" 19	"	59727	O. Paquette, Ber. 3 "	15	Gold Lion Brewing Co., Ltd., Valley field.		
" 19	"	59728	J. A. Laporte, Ber. 3 "	30	Eckers Brew- ing Co., Mon- treal.		
" 22	"	59729	George Gomin, St. 3 "	30	Silver Spring, Felix de Valois,		
" 22	"	59730	Ludger Duperreault, 3 "	50	Molson, Mon- St. Felix de Valois.		

DISTRICT OF EASTERN TOWNSHIPS—J. C. ROULEAU, INSPECTOR.

Sept. 29	Beer	1729	J. U. Brunette, 3 bots. Victoriaville.	35	Silver Spring Brewery, Ltd., Sher- brooke.		Silver Spring.
Oct. 1	"	1730	Silver Spring Brew. 3 "	35	Vendors		
" 1	"	1731	National Breweries, 3 "	25	Wm. Dow & Co., Montreal		Dow's
" 13	"	1732	Leop. L. Huereux, 3 "	25	St. Lawrence Brewery, Ltd., Corn- wall.		Cornwall.
" 13	"	1733	F. Orsali & Cie, St. 3 "	25	Dow's Brewer- ies, Lachine.		Red Horse.

DISTRICT OF MONTREAL—D. J. KEARNEY, INSPECTOR.

Nov. 4	Beer	58616	N. Léonide, 364 Char- levois st., Montreal	38	Dawes Brewer- ies, Lachine.		Black Horse Ale
" 4	"	58617	H. Harel, 361 Char- levois st., Montreal	38	Wm. Dow & Co.		
" 4	"	58618	A. Jean, 471 Char- levois st., Montreal	31	Canadian Bre- weries.		
" 4	"	58619	A. Kathe, 555 Grand Trunk st., Montreal	38	John H. R. Molson & Bros.		
" 4	"	58620	E. Valade, 230 Chat- eauguay st., Mont- real.	30	The Independ- ent Bre- weries, Co., Ltd.		

BULLETIN No. 283—ALE (BEER)—TABLE I.

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 (Is not an expression of Opinion.)
					Quantity.	Cents.	

DISTRICT OF VALLEYFIELD—D. J. KEARNEY, ACTING INSPECTOR.

1913.							
Nov. 12	Beer . . .	58656	John McDonald, River Beaudette.	3 bots	15	John McCarthy & Sons, Prescott.	
" 12	" . . .	58657	M. Beauchamp, River Beaudette.	3 "	45	Dawes Breweries, Lachine.	Red Horse . . .
" 20	" . . .	58658	Salaberry Hotel, Valleyfield.	3 "	45	Gold Lion Brewing Co., Valleyfield.	
" 20	" . . .	58659	Arthur Sauve, Valleyfield.	3 "	45	" . . .	
" 20	" . . .	58660	A. A. Leduc, Valleyfield.	3 "	45	" . . .	

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

Sept. 30	Ale	42895	Chelsea Trading Co., Ltd., Bank st., Ottawa.	3 bots	45	Wm. Dow & Co., Montreal	Dawes, Ottawa.	Indian Pale Ale.
" 30	"	42896	"	3 "	45	Dawes, Ottawa	Manufacturers.	"
" 30	"	42897	Jos. Lavigne, Wellington st., Ottawa.	3 "	45	The Bradling Brewing Co., Ltd., Ottawa	"	This ale is brewed from pure malt and the best English Bavarian hops.
" 30	"	42898	"	3 "	45	Carling's Ottawa	"	
Oct. 3	"	42899	Walter Cunningham, Rideau st., Ottawa.	3 "	45	The Reinhardt Salvador Avery L' Toronto.	"	Sterling Special.

DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.

Sept. 18	Beer	60026	James McParland, Kingston.	3 bots.	45	Debatte, London		
" 18	"	60027	J. Gordon, King.	3 "	45	Clipplands, Ontario		
" 18	"	60028	G. Thompson, King.	3 "	45	J. Fisher, Portsmouth.		
" 18	"	60029	E. Beaupre, King.	3 "	60	O'Keefe, Toronto.		
" 22	"	60030	J. Ray, Belleville	3 "	27	Vendor.		

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

Sept. 17	Beer	57484	J. W. Ryan, 188 Queen St., West, Toronto.	3 bots.	36		The Cosgrave B. Co., Ltd., Toronto.	
" 18	"	57485	H. P. Redway, 212 Queen St., East, Toronto.	3 "	35		The Dom. B. Pale Ale. Co., Ltd., Toronto.	

BULLETIN No. 283—ALE (BEER)—TABLE I.

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. (Is not an expression of Opinion.)
					Quantity.	Cents.	

DISTRICT OF TORONTO—Concluded.

1913.							
Sept. 18	Beer.....	57486	John Mather, 1523 King St., East, Toronto.	3 bots. 36	...	...	Copland B. Co., Ltd., Toronto. Pale Ale.
" 18 "	"	57487	A. Graham, 3 Mc Caul St., Toronto	3 " 45	...	...	The O'keefe's Special B.Co., Ltd. extra mild ale. Toronto.
" 19 "	"	57488	E. T. Sandell, 525 Young St., Toronto	3 " 45	...	...	Sleeman & Silver Creek Sons,Ltd., Guelph. Brewery Ale.

DISTRICT OF HAMILTON—J. J. COSTIGAN, ACTING INSPECTOR.

Sept. 29	Ale.....	50865	John O. Carpenter, 10 Market Square, Hamilton.	3 bots. 36	Carlings, London, Ont.	Amber Ale.
" 29 "	"	50866	" " 3 " 36	Grant's Spring B. Co., Ltd.	.....	Idle Ale.
" 29 "	"	50867	" " 3 " 36	Dow B. Co., Ltd., Toronto	.....	Export White Label.
" 29 "	"	50868	M. Cummings, 2 Barton St., Toronto.	3 " 30	Grant's Spring B. Co., Ltd.	East India Pale Ale.
" 29 "	"	50869	" " 3 " 20	.....	.....	Labatt's India Pale Ale.

DISTRICT OF WINDSOR—JOHN TALBOT, INSPECTOR.

Oct. 8	Ale....	54412	R. Callinan, Petrolia.	3 bots. 45	J. Labatt, London.	.....	Labatt's India Pale Ale.
" 9 "	"	54414	D. Donaldson, Sarnia	3 " 60	Copland's, Toronto.	.....	Copland's Pale Ale.
" 9	Lager beer	54415	" " 3 " 45	B. Am. B. Co., Windsor.	.....	Cincinnati Cream Export.	
" 9	Ale....	54421	C. H. Pugh, Sarnia.	3 " 50	Carling B. & M. Co., London.	.....	Carling's Amber Ale.
" 9	Lager beer	54422	" " 3 " 50	Walkerville B. Co., Walkerville.	.....	Superior Lager Beer.	

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

Sept. 27	Ale (Beer)	48941	E. L. Brewery, Winnipeg.	3 bots. Nil	Vendor	.....	Refined Ale.
" 29 "	" ..	48942	McDonagh & Shea, Winnipeg.	3 " ..	Vendors	.....	.....
" 30 "	" ..	48943	T. D. Cavanagh, 3 " Winnipeg.	50	Bass & Co.	.....	Bottled by C. C. Hibbert & Co., London.
" 27 "	" ..	48944	The Empire Brewing Co., Brandon.	3 " ..	Vendors	.....	.....
" 27 "	" ..	48945	The Brandon Brewing Co., Brandon.	3 " ..	"	.....	.....

BULLTIN No. 283—ALE (BEER)—TABLE I.

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. (Is not an expression of Opinion).
					Quantity.	Cents.	

DISTRICT OF ROCKY MOUNTAINS—THOS. PARKER, INSPECTOR.

1913.							
Oct.	2 Beer.....	49961	E. A. Taylor, Nelson, B.C.	3 bots. 1.00	Fernie Fort Steele B. Co., Fernie.		
" 2 "	" ..	49962	Nelson Brewery Co., Nelson, B.C.	3 " 1.00	Vendors.....		
" 17 "	" ..	49987	Pollock Wine Co., Fernie, B.C.	3 " 1.00	Elk Valley B. Co., Michel, B.C.		
Nov.	1 "	49988	A. Mueller, Trail, B.C.	3 " 1.00	Vendor		
" 3 "	" ..	49989	Sinith & Belton, Rossland, B.C.	3 " 1.00	Le Roi B. Co., Rossland, B.C.		

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

Sept.	24 Ale.	57641	T. J. Jackman, 608 3 qts., View St., Victoria, B.C.	50	Silver Spring B. Co., Ltd., Victoria, B.C.	.....	Tate's English Ale.
" 24 "	" ..	57642	B.C. Wine Co., Ltd., 1216 Douglas St., Victoria, B.C.	45	Victoria Phoenix B. Co., Ltd., Victoria, B.C.	.....	Victoria Phoenix Ale.
Oct.	6 " ..	57645	The West End Grocery Co., Ltd., 1002 Government St., Victoria, B.C.	3 " 90	Bass & Co., Eng.	.....	Bass's Red Label Pale Ale.
" 6 "	" ..	57646	D. Stewart, 607 3 " Yates St., Victoria, B.C.	90	Meux & Co., London.	.....	Meux's London Pale Ale.
" 6 "	" ..	57647	Dixi H. Ross & Co., 1316 Broad St., Victoria, B.C.	90	Bass & Co., Eng.	.....	Bass & Co., Pale Ale Beaver Brand.

BULLETIN No. 283—ALK—(BEER)—TABLE II.

Remarks and Opinion of the Chief Analyst.													
Name of Inspector District.	No. of Sample.	Specific Gravity at 15.5° C.						Alcohol p. c.					
		Beech	Hemp	Wool	Cotton	Vadume	Woolfat	Beeswax	Resin	Proof Spirit	Solids in Original Wort	Market-worn, Pounds per Gallion	Degree of Fermentation
Nova Scotia	54301 1.0056 0.98957 1.01586 6.427 51	13.16	16.08	4.098 2.73	54.610 2.32	0.292	0.636	0.096 negative	0.066	0.066	0.066	0.066	54301
	54302 0.9987 0.98060 1.0091 5.51 6.87	12.04	13.35	2.35 2.26	82.41 0.36	0.256	0.390	0.056	"	"	"	"	54302 Extractive low
	54302 0.9971 0.9814 5.44 6.78	11.89	15.65	2.72 2.66	73.63 0.29	0.356	0.484	0.066	"	"	"	"	54303
	54304 1.0075 0.98074 1.01685 5.41 6.75	11.84	15.16	4.34 2.58	71.85 0.38	0.270	0.616	0.080	"	"	"	"	54304
	54305 1.0053 0.98250 1.01284 16.5 21	9.18	11.68	3.30 1.91	71.73 0.23	0.202	0.528	0.072 salicylic	"	"	"	"	54305 Extractive slightly low.
New Brunswick	54306 1.0005 0.98929 1.0145 4.61 5.77	10.10	12.96	3.74 2.16	71.12 0.54	0.250	0.562	0.063 negative	"	"	"	"	54306
	54306 1.0078 0.99074 1.0176 4.51 6.75	11.84	15.24	4.42 2.20	71.01 0.53	0.320	0.644	0.065	"	"	"	"	54306
	54307 1.0088 0.99346 1.0153 3.73 4.66	8.23	11.41	3.91 1.89	65.37 0.35	0.250	0.594	0.077	"	"	"	"	54307
	54308 1.0052 0.98945 1.0136 3.45 4.50	10.52	13.50	4.31 2.25	64.30 0.30	0.254	0.688	0.066	"	"	"	"	54308
	54309 1.0064 0.98561 0.98868 6.17 7.69	13.48	16.76	4.31 2.84	73.98 0.38	0.231	0.531	0.080	"	"	"	"	54309
Puduct	54310 1.0117 0.99257 1.0191 2.27 5.31	9.35	13.50	4.96 2.25	63.27 0.47	0.229	0.502	0.060 salicylic	"	"	"	"	54310
	54310 0.99246 1.0120 2.95 5.22	9.15	13.27	5.01 2.22	62.52 0.36	0.253	0.560	0.051	"	"	"	"	54310
	54311 0.99271 1.0135 4.18 5.45	9.50	13.40	4.74 2.24	61.61 0.30	0.264	0.639	0.080	"	"	"	"	54311
	54312 0.99461 0.99246 1.0183 4.33 5.42	9.50	13.40	4.74 2.24	61.61 0.30	0.264	0.639	0.080	"	"	"	"	54312
	54313 0.99133 0.99363 1.0203 3.98 4.98	8.73	13.24	5.28 2.21	60.12 0.13	0.206	0.522	0.069	"	"	"	"	54313
	54314 0.9911 0.99245 1.0193 4.23 5.70	9.52	13.47	5.01 2.25	62.81 0.25	0.250	0.518	0.080	"	"	"	"	54314
	54315 0.9919 0.99357 1.0188 3.96 4.46	8.68	12.80	4.88 2.13	61.87 0.35	0.296	0.638	0.079	"	"	"	"	54315
	54316 0.99207 1.0126 4.21 5.26	9.22	11.67	3.25 1.91	72.72 0.31	0.228	0.666	0.070 negative	"	"	"	"	54316 Extractive slightly low.
	54317 0.9928 1.0063 0.99228 1.0144 4.51 5.1	9.59	12.71	3.72 2.12	71.79 0.27	0.298	0.568	0.063	"	"	"	"	54317
	54318 0.9938 0.99285 1.0114 4.41 5.51	9.65	11.76	2.94 1.93	74.99 0.40	0.216	0.450	0.053	"	"	"	"	54318
	54319 0.9949 0.99303 1.0119 4.9 5.01	8.74	11.00	3.07 1.83	72.35 0.44	0.214	0.510	0.066	"	"	"	"	54319 Extractive slightly low.
	54320 1.0051 0.99245 1.0122 4.09 5.12	8.97	11.33	3.15 1.87	72.21 0.42	0.216	0.426	0.058	"	"	"	"	54320
	54321 0.9967 0.99357 1.0130 3.5 4.17	7.86	10.46	3.35 1.72	66.66 0.20	0.297	0.374	0.055	"	"	"	"	54321
	54322 1.0063 0.99228 1.0126 4.9 6.17	10.81	14.51	4.63 2.44	68.10 0.30	0.257	0.644	0.082 salicylic	0.0047	"	"	"	54322
	54323 0.99181 0.99247 1.0256 4.33 5.42	9.36	15.27	6.21 2.57	75.37 0.28	0.210	0.472	0.060	"	"	"	"	54323
	54324 1.0061 0.99368 1.0151 3.9 4.01	9.80	12.70	3.97 1.73	73.53 0.29	0.216	0.458	0.060	"	"	"	"	54324
	54325 1.0061 0.99243 1.0171 4.09 5.76	10.09	13.62	4.42 2.28	67.56 0.34	0.232	0.632	0.074	"	"	"	"	54325
	54326 1.0069 0.99361 0.99167 3.96 4.96	8.69	12.23	4.61 2.13	64.76 0.26	0.228	0.629	0.059	"	"	"	"	54326
	54327 1.0069 0.99242 1.0178 4.58 5.73	10.42	13.77	4.61 2.30	66.51 0.30	0.228	0.558	0.066 negative	0.0047	"	"	"	54327
	54328 1.0146 0.99422 1.0159 2.49 3.75	6.56	11.15	5.17 1.83	53.64 0.35	0.192	0.420	0.060	"	"	"	"	54328
Eastern Townships	54329 1.0051 0.99245 1.0122 4.09 5.12	8.97	11.33	3.15 1.87	72.21 0.42	0.216	0.426	0.058	"	"	"	"	54329 Extractive slightly low.
	54330 1.0067 0.99357 1.0130 3.5 4.17	7.86	10.46	3.35 1.72	66.66 0.20	0.297	0.374	0.055	"	"	"	"	54330
	54331 1.0064 0.99151 0.99228 1.0126 4.9 6.17	10.81	14.51	4.63 2.44	68.10 0.30	0.257	0.644	0.082	0.0047	"	"	"	54331
	54332 1.0055 0.99286 1.0126 4.09 5.12	9.36	15.27	6.21 2.57	75.37 0.28	0.210	0.472	0.060	"	"	"	"	54332
	54333 1.0061 0.99368 1.0151 3.9 4.01	9.80	12.70	3.97 1.73	73.53 0.29	0.216	0.458	0.060	"	"	"	"	54333
	54334 1.0061 0.99243 1.0171 4.09 5.76	10.09	13.62	4.42 2.28	67.56 0.34	0.232	0.632	0.074	"	"	"	"	54334
	54335 1.0069 0.99361 0.99167 3.96 4.96	8.69	12.23	4.61 2.13	64.76 0.26	0.228	0.629	0.059	"	"	"	"	54335
	54336 1.0069 0.99242 1.0178 4.58 5.73	10.42	13.77	4.61 2.30	66.51 0.30	0.228	0.558	0.066 negative	0.0047	"	"	"	54336
Montreal	54337 1.0061 0.99368 1.0151 3.9 4.01	9.80	12.70	3.97 1.73	73.53 0.29	0.216	0.458	0.060	"	"	"	"	54337
	54338 1.0061 0.99243 1.0171 4.09 5.76	10.09	13.62	4.42 2.28	67.56 0.34	0.232	0.632	0.074	"	"	"	"	54338
	54339 1.0069 0.99361 0.99167 3.96 4.96	8.69	12.23	4.61 2.13	64.76 0.26	0.228	0.629	0.059	"	"	"	"	54339
	54340 1.0069 0.99242 1.0178 4.58 5.73	10.42	13.77	4.61 2.30	66.51 0.30	0.228	0.558	0.066 negative	0.0047	"	"	"	54340

BULLETIN No. 283—ALF (BEER)—TABLE III.

Name.	Specific Gravity at 15.5°C.												Alcohol, p.c.												Solids in Original Wort.												Solids as a Beer.												Total Acidity (Titres as Lactic per 100cc.												Degree of Fermentation.												Pectin.												P ₂ O ₅ .												Sulphydile Reaction.												N ₂ of Sample.												Remarks and Opinion of the Chief Analyst.											
	Degre ^e	Residue	Distillate	Defer.	Volum ^e	Weight	Proof Spirit	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.																																																																													
Baer,	1.0080	0.98054	1.0185	6.28	7.71	13.51	17.15	4.79	2.92	72.07	0.35	0.356	0.562	0.032	negative	5.745																																																																																											
"	1.0087	0.98156	1.0191	6.17	7.69	13.48	17.30	4.96	2.94	71.31	0.36	0.340	0.532	0.066	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.7647																																																																							
"	1.0064	0.98056	1.0168	6.17	7.69	13.48	16.68	4.24	2.84	73.980	0.38	0.334	0.531	0.080	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.4366																																																																							
"	1.0100	0.99124	1.0388	10.68	17.69	13.48	16.68	4.88	2.85	67.66	0.34	0.310	0.514	0.056	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.9443																																																																							
"	1.0091	0.99057	1.0184	5.41	6.78	11.86	16.65	4.74	2.66	69.53	0.35	0.336	0.481	0.066	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.1933																																																																							
"	1.0108	0.99346	1.0383	4.35	5.42	9.30	13.40	4.77	2.24	64.61	0.39	0.264	0.450	0.050	salicylic	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.6146																																																																								
"	1.0119	0.99326	1.0393	1.23	5.30	9.27	13.47	5.01	2.25	62.81	0.41	0.262	0.418	0.080	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.6148																																																																							
"	1.0075	0.99479	1.0127	2.95	3.70	6.48	9.18	3.28	1.49	61.28	0.41	0.157	0.34	0.037	negative	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.2897																																																																										
Brading,	1.0138	0.99186	1.0219	4.72	5.80	10.32	15.11	5.07	2.51	62.47	0.21	0.199	0.500	0.060	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.8915																																																																									
Brandon,	1.0036	0.99346	1.0167	3.96	4.96	8.63	12.23	4.31	2.63	61.76	0.26	0.220	0.482	0.039	salicylic	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.8618																																																																										
Canadian	1.0103	0.99246	1.0178	4.33	5.42	9.50	13.27	4.61	2.21	65.25	0.41	0.352	0.516	0.054	negative	0.0170	5.4421	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.6086																																																																										
Cardings,	1.0115	0.99218	1.0193	4.51	5.65	9.89	14.13	6.01	3.34	61.39	0.44	0.337	0.516	0.052	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.4421																																																																											
"	1.0128	0.99226	1.0205	4.46	5.58	9.78	14.25	5.33	2.86	62.61	0.41	0.252	0.500	0.050	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.2898																																																																											
Champlain,	1.0129	0.99271	1.0135	4.18	5.23	9.17	13.37	5.01	2.22	62.52	0.36	0.253	0.530	0.051	salicylic	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.6145																																																																												
Cinemat Cremat	1.0155	0.99465	1.0208	3.70	6.49	11.42	5.40	1.88	61.70	0.54	0.160	0.722	0.078	negative	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.4415																																																																													
Copland,	1.0177	0.99325	1.02443	8.64	9.82	8.45	13.09	6.24	2.31	55.03	0.32	0.256	0.646	0.074	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0055	6.0027																																																																												
"	1.0181	0.99318	1.02533	9.04	8.87	8.54	14.32	6.32	2.39	54.48	0.30	0.256	0.634	0.061	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.4414																																																																													
Cowall,	1.0053	0.98286	1.0126	4.06	5.12	8.97	11.43	4.25	1.89	71.58	0.29	0.198	0.402	0.057	solycile	0.0174	5.4886	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.1732																																																																												
Cograve,	1.0126	0.98110	1.0195	3.94	4.93	8.64	12.94	5.06	2.15	60.88	0.15	0.296	0.636	0.073	negative	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.7484																																																																												
Dawes,	1.0119	0.99307	1.0188	3.96	4.96	8.68	12.96	4.88	2.12	61.87	0.15	0.296	0.636	0.073	salicylic	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.9726																																																																														
"	1.0103	0.98269	1.0176	4.20	5.26	9.19	12.96	4.75	2.15	64.86	0.34	0.256	0.632	0.07	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0060	4.2896																																																																																
"	1.0091	0.98368	1.0154	5.60	4.50	7.99	11.17	3.97	2.85	73.43	0.29	0.216	0.480	0.060	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.8616																																																																															
"	1.0067	0.98335	1.0163	3.73	4.74	8.32	11.79	4.21	1.96	64.29	0.41	0.231	0.486	0.059	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.8857																																																																													
"	1.0181	0.99247	1.02556	3.38	4.52	9.36	15.97	6.61	2.57	75.32	0.28	0.210	0.472	0.064	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.731																																																																															
Dom. B. Co.,	1.0124	0.95186	1.0266	4.71	5.89	10.32	14.73	5.33	2.48	63.87	0.50	0.308	0.639	0.071	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0011	5.6086																																																																																
"	1.0136	0.99201	1.02154	37.5	73	9.80	14.71	5.07	2.47	62.13	0.63	0.316	0.682	0.074	negative	0.0074	5.7485	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0110																																																																														
"	1.0093	0.99162	1.0177	3.86	4.68	10.64	12.92	4.78	2.00	67.98	0.34	0.216	0.480	0.059	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0047	4.2896																																																																																
"	1.0094	0.99151	1.0179	4.94	5.76	10.81	14.51	4.63	2.44	68.10	0.30	0.237	0.464	0.059	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0047	5.7484																																																																																
"	1.0091	0.99203	1.0171	4.50	5.76	10.99	13.62	4.42	2.28	67.56	0.34	0.212	0.432	0.074	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.0055	5.8617																																																																																

	0.035	0.038	0.041	0.044	0.047	0.050	0.053	0.056	0.058	0.061	0.064	0.067	0.070	0.073	0.076	0.079	0.082	0.085	0.088	
Dowery	1.0101	0.99191 1.0182	1.0612 1.083	1.0710 1.091	1.0812 1.102	1.0912 1.122	1.1012 1.132	1.1112 1.142	1.1212 1.152	1.1312 1.162	1.1412 1.182	1.1512 1.202	1.1612 1.222	1.1712 1.242	1.1812 1.262	1.1912 1.282	1.2012 1.302	1.2112 1.322	1.2212 1.342	1.2312 1.362
Elk Valley	"	1.0082	1.0428 1.053	1.0440 1.054	1.0452 1.055	1.0464 1.056	1.0476 1.057	1.0488 1.058	1.0500 1.059	1.0512 1.060	1.0524 1.061	1.0536 1.062	1.0548 1.063	1.0560 1.064	1.0572 1.065	1.0584 1.066	1.0596 1.067	1.0608 1.068	1.0620 1.069	1.0632 1.070
Fairfax	"	1.0121	0.99467 1.0169	1.0247 1.042	1.0325 1.052	1.0403 1.062	1.0481 1.072	1.0559 1.082	1.0637 1.092	1.0715 1.102	1.0793 1.112	1.0871 1.122	1.0949 1.132	1.1027 1.142	1.1105 1.152	1.1183 1.162	1.1261 1.172	1.1339 1.182	1.1417 1.192	1.1495 1.202
Farmers	"	1.0092	0.99255 1.0184	1.0184 1.035	1.0264 1.045	1.0344 1.055	1.0424 1.065	1.0504 1.075	1.0584 1.085	1.0664 1.095	1.0744 1.105	1.0824 1.115	1.0904 1.125	1.0984 1.135	1.1064 1.145	1.1144 1.155	1.1224 1.165	1.1304 1.175	1.1384 1.185	1.1464 1.195
Fisher Bros.	"	1.0100	0.99450 1.0163	1.0243 1.043	1.0321 1.053	1.0400 1.063	1.0479 1.073	1.0558 1.083	1.0637 1.093	1.0717 1.103	1.0796 1.113	1.0875 1.123	1.0954 1.133	1.1033 1.143	1.1112 1.153	1.1191 1.163	1.1270 1.173	1.1349 1.183	1.1428 1.193	1.1507 1.203
Gold Lion	"	1.0105	0.99440 1.0161	1.0241 1.041	1.0320 1.051	1.0399 1.061	1.0478 1.071	1.0558 1.081	1.0637 1.091	1.0717 1.101	1.0796 1.111	1.0875 1.121	1.0954 1.131	1.1033 1.141	1.1112 1.151	1.1191 1.161	1.1270 1.171	1.1349 1.181	1.1428 1.191	1.1507 1.201
Grant	"	1.0203	0.99361 1.0160	1.0267 1.040	1.0346 1.050	1.0426 1.060	1.0505 1.070	1.0584 1.080	1.0663 1.090	1.0743 1.100	1.0822 1.110	1.0901 1.120	1.0979 1.130	1.1058 1.140	1.1137 1.150	1.1216 1.160	1.1295 1.170	1.1374 1.180	1.1453 1.190	1.1532 1.200
Howards	"	1.0177	0.99288 1.0248	1.0457 1.056	1.0536 1.066	1.0615 1.076	1.0694 1.086	1.0773 1.096	1.0852 1.106	1.0931 1.116	1.1010 1.126	1.1089 1.136	1.1168 1.146	1.1247 1.156	1.1326 1.166	1.1405 1.176	1.1484 1.186	1.1563 1.196	1.1642 1.206	
Independent	"	1.0065	0.98577 1.0156	1.0266 1.037	1.0326 1.047	1.0386 1.057	1.0446 1.067	1.0505 1.077	1.0565 1.087	1.0625 1.097	1.0685 1.107	1.0745 1.117	1.0805 1.127	1.0865 1.137	1.0925 1.147	1.0985 1.157	1.1045 1.167	1.1105 1.177	1.1165 1.187	1.1225 1.197
Keith	"	1.0146	0.99472 1.0159	1.0259 1.039	1.0319 1.050	1.0379 1.060	1.0439 1.070	1.0509 1.080	1.0579 1.090	1.0639 1.100	1.0699 1.110	1.0759 1.120	1.0819 1.130	1.0879 1.140	1.0939 1.150	1.0999 1.160	1.1059 1.170	1.1119 1.180	1.1179 1.190	1.1239 1.200
Lahart	"	1.0063	0.99346 1.0153	1.0258 1.038	1.0318 1.058	1.0378 1.068	1.0438 1.078	1.0508 1.088	1.0578 1.098	1.0638 1.108	1.0698 1.118	1.0758 1.128	1.0818 1.138	1.0878 1.148	1.0938 1.158	1.0998 1.168	1.1058 1.178	1.1118 1.188	1.1178 1.198	1.1238 2.00
McCarthy	"	1.0111	0.99245 1.0180	1.0254 1.034	1.0314 1.054	1.0374 1.064	1.0434 1.074	1.0504 1.084	1.0574 1.094	1.0634 1.104	1.0694 1.114	1.0754 1.124	1.0814 1.134	1.0874 1.144	1.0934 1.154	1.0994 1.164	1.1054 1.174	1.1114 1.184	1.1174 1.194	1.1234 2.04
McMahon & Shea	"	1.0116	0.99164 1.0200	1.0260 1.046	1.0320 1.056	1.0380 1.066	1.0440 1.076	1.0509 1.086	1.0569 1.096	1.0629 1.106	1.0689 1.116	1.0749 1.126	1.0809 1.136	1.0869 1.146	1.0929 1.156	1.0989 1.166	1.1049 1.176	1.1109 1.186	1.1169 1.196	1.1229 2.06
McEwan	"	1.0093	0.99227 1.0170	1.0170 1.046	1.0230 1.056	1.0290 1.066	1.0350 1.076	1.0410 1.086	1.0470 1.096	1.0530 1.106	1.0590 1.116	1.0650 1.126	1.0710 1.136	1.0770 1.146	1.0830 1.156	1.0890 1.166	1.0950 1.176	1.1010 1.186	1.1070 1.196	1.1130 2.06
Meaux	"	1.0168	0.98341 1.0231	1.0315 1.041	1.0375 1.051	1.0435 1.061	1.0495 1.071	1.0555 1.081	1.0615 1.091	1.0675 1.101	1.0735 1.111	1.0795 1.121	1.0855 1.131	1.0915 1.141	1.0975 1.151	1.1035 1.161	1.1095 1.171	1.1155 1.181	1.1215 1.191	1.1275 2.06
Molsons	"	1.0162	0.99357 1.0226	1.0313 1.043	1.0373 1.053	1.0433 1.063	1.0493 1.073	1.0553 1.083	1.0613 1.093	1.0673 1.103	1.0733 1.113	1.0793 1.123	1.0853 1.133	1.0913 1.143	1.0973 1.153	1.1033 1.163	1.1093 1.173	1.1153 1.183	1.1213 1.193	1.1273 2.06
National	"	1.0135	0.99374 1.0198	1.0237 1.037	1.0313 1.057	1.0373 1.067	1.0433 1.077	1.0493 1.087	1.0553 1.097	1.0613 1.107	1.0673 1.117	1.0733 1.127	1.0793 1.137	1.0853 1.147	1.0913 1.157	1.0973 1.167	1.1033 1.177	1.1093 1.187	1.1153 1.197	1.1213 2.06
Nelson	"	1.0121	0.98366 1.0171	1.0171 1.047	1.0230 1.057	1.0290 1.067	1.0350 1.077	1.0410 1.087	1.0470 1.097	1.0530 1.107	1.0590 1.117	1.0650 1.127	1.0710 1.137	1.0770 1.147	1.0830 1.157	1.0890 1.167	1.0950 1.177	1.1010 1.187	1.1070 1.197	1.1130 2.06
Oland	"	1.0089	0.98383 1.0250	1.0348 1.058	1.0408 1.068	1.0468 1.078	1.0528 1.088	1.0588 1.098	1.0648 1.108	1.0708 1.118	1.0768 1.128	1.0828 1.138	1.0888 1.148	1.0948 1.158	1.1008 1.168	1.1068 1.178	1.1128 1.188	1.1188 1.198	1.1248 2.06	
O'Keefe	"	1.0107	0.99457 1.0250	1.0345 1.055	1.0405 1.065	1.0465 1.075	1.0525 1.085	1.0585 1.095	1.0645 1.105	1.0705 1.115	1.0765 1.125	1.0825 1.135	1.0885 1.145	1.0945 1.155	1.1005 1.165	1.1065 1.175	1.1125 1.185	1.1185 1.195	1.1245 2.06	
Ready	"	1.0125	0.99281 1.0197	1.0197 1.035	1.0255 1.055	1.0315 1.065	1.0375 1.075	1.0435 1.085	1.0495 1.095	1.0555 1.105	1.0615 1.115	1.0675 1.125	1.0735 1.135	1.0795 1.145	1.0855 1.155	1.0915 1.165	1.0975 1.175	1.1035 1.185	1.1095 1.195	1.1155 2.06
Reinhardt	"	1.0044	0.99349 1.0169	1.0169 1.034	1.0229 1.054	1.0289 1.064	1.0349 1.074	1.0409 1.084	1.0469 1.094	1.0529 1.104	1.0589 1.114	1.0649 1.124	1.0709 1.134	1.0769 1.144	1.0829 1.154	1.0889 1.164	1.0949 1.174	1.1009 1.184	1.1069 1.194	1.1129 2.06
Roy	"	1.0153	0.98408 1.0212	1.0336 1.054	1.0393 1.064	1.0453 1.074	1.0513 1.084	1.0573 1.094	1.0633 1.104	1.0693 1.114	1.0753 1.124	1.0813 1.134	1.0873 1.144	1.0933 1.154	1.0993 1.164	1.1053 1.174	1.1113 1.184	1.1173 1.194	1.1233 2.06	
Silver Creek (Guelph)	"	1.0056	0.98281 1.0132	1.0132 1.034	1.0192 1.054	1.0252 1.064	1.0312 1.074	1.0372 1.084	1.0432 1.094	1.0492 1.104	1.0552 1.114	1.0612 1.124	1.0672 1.134	1.0732 1.144	1.0792 1.154	1.0852 1.164	1.0912 1.174	1.0972 1.184	1.1032 1.194	1.1092 2.06
Silver Spring (Shebbecoe)	"	1.0038	0.98235 1.0114	1.0114 1.031	1.0174 1.051	1.0234 1.061	1.0294 1.071	1.0354 1.081	1.0414 1.091	1.0474 1.101	1.0534 1.111	1.0594 1.121	1.0654 1.131	1.0714 1.141	1.0774 1.151	1.0834 1.161	1.0894 1.171	1.0954 1.181	1.1014 1.191	1.1074 2.06
Simeon Jones	"	1.0051	0.98285 1.0122	1.0122 1.032	1.0182 1.052	1.0242 1.062	1.0302 1.072	1.0362 1.082	1.0422 1.092	1.0482 1.102	1.0542 1.112	1.0602 1.122	1.0662 1.132	1.0722 1.142	1.0782 1.152	1.0842 1.162	1.0902 1.172	1.0962 1.182	1.1022 1.192	1.1082 2.06
Tate	"	1.0063	0.98202 1.0145	1.0145 1.035	1.0205 1.055	1.0265 1.065	1.0325 1.075	1.0385 1.085	1.0445 1.095	1.0505 1.105	1.0565 1.115	1.0625 1.125	1.0685 1.135	1.0745 1.145	1.0805 1.155	1.0865 1.165	1.0925 1.175	1.0985 1.185	1.1045 1.195	1.1105 2.06
Victoria	"	1.0043	0.98179 1.0256	1.0256 1.046	1.0316 1.066	1.0376 1.076	1.0436 1.086	1.0496 1.096	1.0556 1.106	1.0616 1.116	1.0676 1.126	1.0736 1.136	1.0796 1.146	1.0856 1.156	1.0916 1.166	1.0976 1.176	1.1036 1.186	1.1096 1.196	1.1156 2.06	
Walkerville (Lager Beer)	1.0135	0.98440 1.0191	1.0191 1.033	1.0251 1.053	1.0311 1.063	1.0371 1.073	1.0431 1.083	1.0491 1.093	1.0551 1.103	1.0611 1.113	1.0671 1.123	1.0731 1.133	1.0791 1.143	1.0851 1.153	1.0911 1.163	1.0971 1.173	1.1031 1.183	1.1091 1.193	1.1151 2.06	

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