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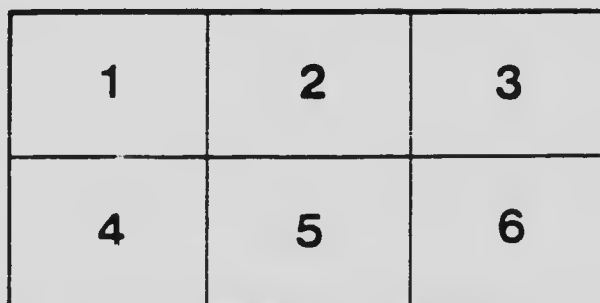
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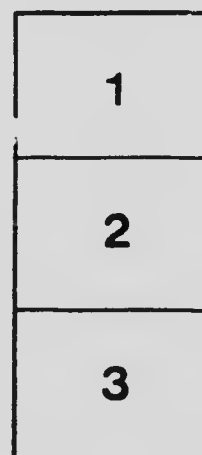
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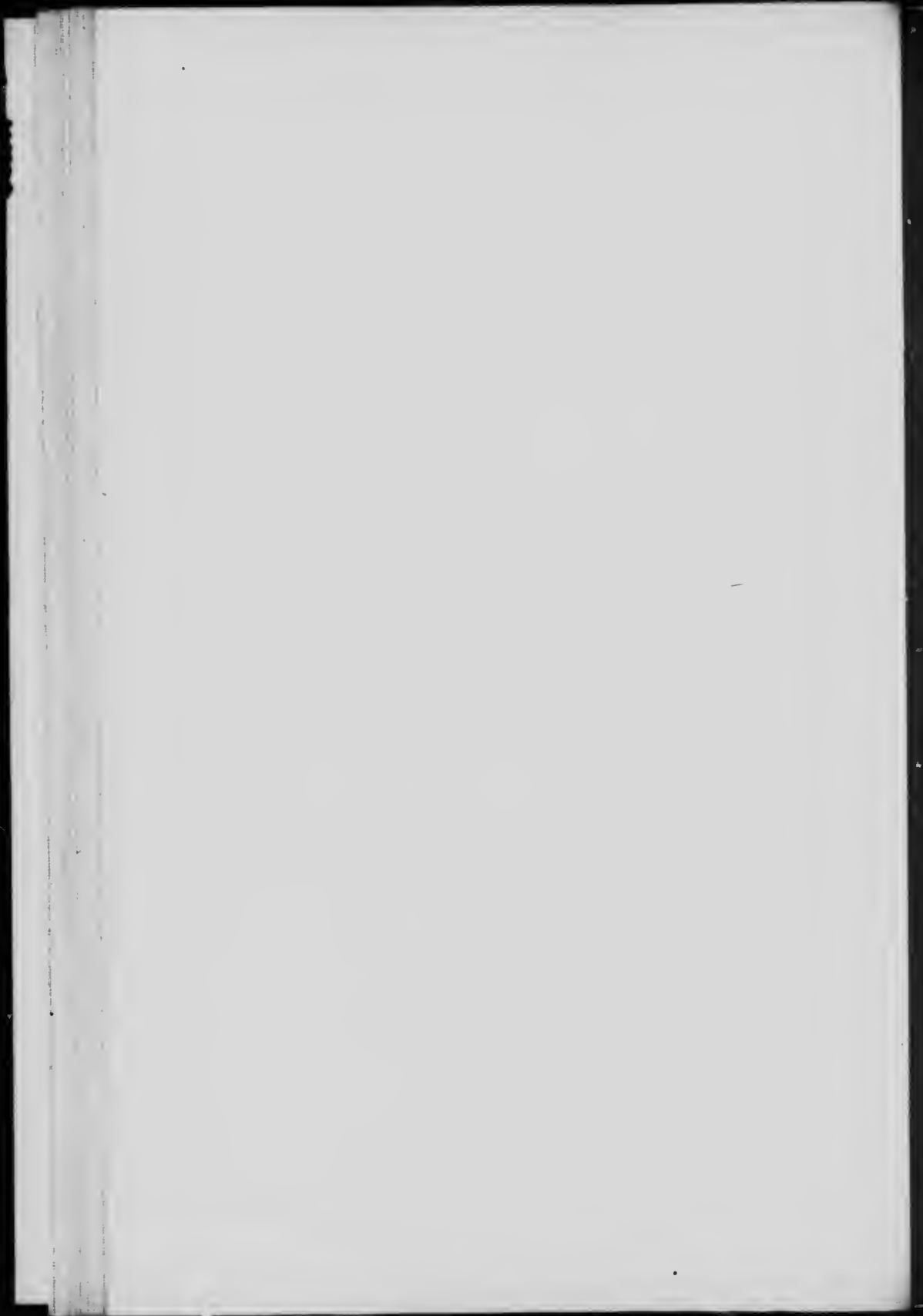
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LABORATORY  
OF THE  
INLAND REVENUE DEPARTMENT

OTTAWA, CANADA.

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BULLETIN No. 280

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Temperance Beverages or Soft Drinks

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BULLETIN No. 280

TEMPERANCE BEVERAGES OR SOFT DRINKS

OTTAWA, February 26, 1914.

WM. HIMS WORTH, Esq.,  
Deputy Minister Inland Revenue.

SIR,—I beg to hand you herewith a report upon the examination of 150 samples sold as soft drinks (non-alcoholic or temperance beverages) during the months of September and October last. The specific names under which these were offered for sale are as follows:—

	Samples.
Ginger Ale. . . . .	45
Ginger Beer. . . . .	14
Lemon Sour. . . . .	20
Cream Soda. . . . .	23
Iron Brew. . . . .	7
Champagne Cider. . . . .	13
Strawberry Soda. . . . .	6
Sarsaparilla. . . . .	5
Noxi-Cola. . . . .	1
Cherry Cider. . . . .	1
Raspberry. . . . .	1
Wine. . . . .	1
Lime Juice and Soda. . . . .	1
Orange Phosphate. . . . .	1
Grape Smash. . . . .	1
Root Beer. . . . .	1
Raspberryade. . . . .	1
Lagerine. . . . .	1
Table Waters. . . . .	7
Total. . . . .	150



Three samples were lost by breakage in carriage.

Of the seven samples classed as Table Waters, five (5) are sold as Soda Water, and these contain total dissolved solids as follows:—

Soda Water, No. 60051, solids per cent. . . . .	0.060
" " 54417 " . . . . .	0.020
" " 5127 " . . . . .	0.020
" " 48918 " . . . . .	0.140
" " 49967 " . . . . .	0.060

I am not aware that any authoritative definition of the term Soda Water exists. Doubtless the artificial waters so called are intended to be taken as imitations of the naturally effervescent alkaline waters for which Ems, Vichy, and other places are celebrated. The Vichy Water contains about 0.700 per cent solids, chiefly bi-carbonate of soda. It is evident that the above samples bear no sort of resemblance to the Vichy Water: and the amount of contained Soda is so small that they would be much more correctly described as Carbonated Water, as their impregnation with carbonic acid gas under pressure is their only special characteristic.

The remaining two samples are ordinary table waters of good quality.

Of the great majority of these samples of soft drinks it may be said that they are essentially solutions of sugar in varying amounts (from 1 to 10 per cent) flavoured with various essences or fruit flavours (mainly artificial) and impregnated with carbon dioxide (carbonic acid gas) under pressure.

All attempts to find a specific character for Ginger Ale, Ginger Beer, Lemon Sour, &c., from the numerical results of analysis, fails utterly. Those beverages are evidently prepared according to no generally accepted formula, but depend for their character upon the fancy of the manufacturer. It cannot be said that they are harmful; and so long as they meet a popular demand for a sweetened effervescent drink, no objection to them can be taken.

The presence of salicylic acid, to prevent fermentation of the sugar, is noted in thirteen (13) samples; but the amount is not excessive in any case. Saccharin (used as a partial substitute for sugar) is found in thirty-four (34) samples. Objection has been taken to this article as a sweetener by the United States of America (*see* Food Inspection Decision No. 142, of March, 1912), but the evidence of its harmfulness does not appear to be convincing. Under Food Inspection Decision No. 146, of July, 1912, the United States of America permits its presence in certain classes of food, but requires declaration of the presence of Saccharin on the label. This precaution, and the restriction of its amount to such a quantity as shall prevent the ingestion of more than 0.30 gramme daily, seems to be necessary in the light of our present knowledge of the physiological effects of saccharin. The careful investigation made by the Referee Board of the U.S.A., and reported Jan. 13, 1912, revealed that amounts of Saccharin up to 0.50 gramme daily, had no deleterious or poisonous action, and were not injurious to health.

Of course, Saccharin may be used to take the place of sugar in a food in which sugar is a necessary ingredient. But I am not aware that any legal definitions of these temperance drinks prohibit sugar as a necessary ingredient, or that the public desires anything more than sweetness without regard to the sweetening material, so long as this is harmless to health.

It would, however, seem proper to require that whenever a new article is used to effect a result which has long been associated with the presence of sugar, the fact that such substitution has been made should be declared on the label. The words 'Sweetened (wholly or partially) with Saccharin' should, I think, appear upon these labels, when Saccharin is present.

Alcohol, in more than traces, is absent from all but five samples; and in only three of these does it exceed two (2) per cent by volume, the legal limit for non-alcoholic beverages. (G. 947).

Samples sold under the same name have been put together in subsidiary tables, under the captions 'Ginger Ale, Ginger Beer, Lemon Sour, &c.:' but a study of the articles so named fails to reveal any such homogeneity among those classed together as could warrant a definition of the classes in any but the most general way.

I beg to recommend publication of this report as Bulletin No. 280.

I have the honour to be, sir,  
Your obedient servant.

A. MCGILL,  
*Chief Analyst.*

Date of Collection.	Nature of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Name and Address of Manufacturer or Furnisher (given by the Vendor)	
					Manufacturer.	Furnisher.

## DISTRICT OF NOVA SCOTIA—

13.						
Oct. 13	Cream Soda	54316 Burns Grocery, Yarmouth, N.S.	3 Dots.	20	J. Park & Co., Yarmouth, N.S.	Mrs. [unclear]
" 13	Jersey Cream	54317 " " " "	3 "	20	J. W. Grant & Co., Yarmouth, N.S.	" "
" 24	Ginger Ale	54318 F. J. Quinn, Halifax, N.S.	3 "	20	Vendor	" "
" 24	Jersey Cream	54319 Whelan & Ferguson, Halifax, N.S.	3 "	20	Vendors	" "
" 24	Strawberry Soda	5120 Jas. Rowe, Halifax, N.S.	3 "	20	Vendor	" "
" 24	Grape Smash	54321 W. H. Donovan, Halifax, N.S.	3 "	20	" "	" "
" 27	Lemon Soda	54322 Biglow & Hood, Truro, N.S.	3 "	20	" "	" "
" 27	"	54323 V. Putkavitch, Truro, N.S.	3 "	30	F. Dyak, New Glasgow, N.S.	" "
" 28	App. Tart	54324 H. [unclear], Lunenburg, N.S.	3 "	25	Pearn & Baulton, Milton, N.S.	" "
" 28	Wine	54325 A. Sodero, Lunenburg, N.S.	3 "	31	Kempton Bros., Milton, N.S.	" "

## DISTRICT OF NEW BRUNSWICK—

Sept. 21	Lemon Soda	50367 Ready's Breweries, Ltd., St. John, N.B.	3 Dots.	20	Vendors	" "
" 24	Ginger Ale	50368 " " " "	3 "	20	" "	" "
" 24	Sarsaparilla	50369 " " " "	3 "	20	" "	" "
" 29	Ginger Ale	50370 W. A. Simonds, St. John, N.B.	3 "	24	Sussex Beverage Co., Sussex, N.B.	" "
Oct. 3	Iron Brew	50371 W. B. Daley, St. John, N.B.	3 "	15	Vendor	" "
" 8	Strawberry	50372 F. H. Tyrrell, St. Stephen, N.B.	3 "	15	" "	" "
" 14	Jersey Cream	50373 A. H. Wood, Fredericton, N.B.	3 "	"	" "	" "
" 21	Iron Brew	50374 Sussex Mineral Springs, Ltd., Sussex, N.B.	3 "	"	Vendors	" "
" 22	Ginger Ale	50375 Havelock's Mineral Springs Co., Moncton, N.B.	3 "	Nil.	" "	" "
" 23	Lime Juice Soda	5076 Charles Cassidy, Chatham, N.B.	3 "	45	Vendor	" "

## SOFT DRINKS

## Results of Analysis.

Inspector's Report, Boston	Grammes per 100 cc.						Alcohol by Volume.	Saccharin	Preservatives.	Remarks.	Remarks and Opinion of the Chief Analyst.
	Total Sugar	Invert Sugar	Sucrose	Total Sugar	Undetermined Sugar	Fixed Acidity as Tartaric Acid					

## E. J. WAUGH, INSPECTOR.

	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
.....	9.91	5.00	4.10	9.10	0.81	0.000	0.20	None	None	.....	54316
.....	10.10	7.88	2.00	9.88	9.22	0.262	0.33	"	"	.....	54317
.....	6.45	1.38	4.54	5.92	0.53	0.412	0.20	"	"	.....	54318
.....	7.26	4.24	2.28	9.52	0.74	0.135	0.20	"	"	.....	54319
.....	14.56	5.01	5.14	10.19	1.37	0.142	0.20	"	"	Artificial flavour.	54320
.....	9.34	6.48	2.39	8.87	0.47	0.13	0.10	"	"	.....	54321
.....	7.4	3.45	3.59	7.94	0.49	0.175	0.46	"	"	.....	54322
.....	3.44	3.10	0.10	3.20	0.24	0.224	0.99	"	Salicylic acid.	.....	54323
.....	14.14	6.88	5.69	12.57	1.57	0.240	0.46	"	"	Artificial flavour.	54324
.....	10.09	5.25	4.60	9.25	0.84	0.28	0.187	"	None	.....	54325

5118613

## J. C. FERGUSON, INSPECTOR.

.....	8.48	4.42	2.80	7.22	0.96	0.210	0.46	None	None	.....	50367
.....	10.22	3.18	6.22	9.1	0.82	0.290	0.26	"	"	.....	50368
.....	10.48	5.50	3.64	9.94	1.24	0.165	0.25	"	"	.....	50369
.....	11.00	3.38	6.93	10.34	0.69	0.210	0.06	Pre-ferment.	Salicylic acid.	.....	50370
.....	8.45	1.62	5.52	7.14	1.31	0.165	0.26	None	None	.....	50371
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50372
.....	11.14	6.80	3.04	9.84	1.39	0.173	0.26	None	None	.....	50373
.....	12.64	1.18	9.48	10.66	1.98	0.202	0.20	"	"	.....	50374
.....	7.12	1.61	5.15	9.76	0.36	0.172	0.26	"	Salicylic acid.	.....	50375
.....	4.78	4.06	0.60	4.66	0.12	0.289	0.33	"	None	.....	50376

5118613  
2.7 1392

Broken in transit.

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.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF QUEBEC—

1913.							
Sept. 22	Soft Drinks...	56149	George Jobin, 390 Rue St. Joseph, Quebec.	3 bts.	30	F. A. Fleuet, Quebec.	
" 22	"	56150	Edouard Boileau, 836 Rue St. Valier, Quebec.	3 "	25	Timmons & Son, Quebec.	
" 22	"	56151	Jos. Vaillancourt, 358 Rue St. Joseph, Quebec.	3 "	30	Bedard & Dion, Quebec.	
" 23	"	56152	G. Pepin, 132 Rue Massue, Quebec.	3 "	37	Elzear Fortier, Quebec.	
" 23	"	56153	" " "	3 "	37	Edouard Coulombe, Quebec.	
" 23	"	56154	" " "	3 "	22	Elzear Fortier & Cie, Quebec.	
" 23	"	56155	" " "	3 "	22	" " "	
" 23	"	56156	" " "	3 "	22	" " "	
" 24	"	56157	O. Bacon, 28 Rue Hermine, Quebec.	3 "	20	F. A. Fleuet, Quebec.	
" 24	"	56158	" " "	3 "	20	" " "	

## DISTRICT OF THREE RIVERS—

Sept. 19	Ginger Ale...	59731	A. S. Caisse, Berthierville.	3 bts.	30	J. Christian & Co., Montreal.	
" 19	Ginger Beer...	59732	O. Paquette, Berthierville.	3 "	45	" " "	
" 19	Cider	59733	J. A. Laporte, Berthierville.	3 "	25	" " "	
" 22	Ginger Ale...	59734	George Gouin, St. Felix de Valois.	3 "	15	Vendor	
" 22	Soda Water...	59735	" " "	3 "	15	"	
" 22	Ginger Ale...	59736	Oct. Rainville, St. Felix de Valois.	3 "	15	Geo. Gouin, St. Felix de Valois.	
" 22	Soda Water...	59737	" " "	3 "	15	" " "	
" 22	Ginger Ale...	59738	Ludger Duperrault, St. Felix de Valois.	3 "	30	" " "	Goulet et frere, Montreal.
" 22	Soda Water...	59739	" " "	3 "	30	A. D. Lapierre, Joliette.	
" 22	Cider	59751	" " "	3 "	45	" " "	

## SOFT DRINKS.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.								Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Grammes per 100 cc.						Alcohol by Volume.	Saccharin.				Preservatives.
	Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.	Fixed Acidity as Tartaric Acid.						

## F. X. W. E. BELAND, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
.....	7.23	2.37	4.28	6.65	0.58	0.075	0.07	None.	None.	.....	56149
.....	4.99	3.90	0.52	4.42	0.57	0.247	0.33	Present.	"	.....	56150
.....	4.68	3.28	1.32	4.60	0.08	0.190	0.20	"	"	.....	56151
.....	9.60	5.09	3.70	8.70	0.90	0.142	0.20	None.	"	Artificial flavour.	56152
.....	5.37	4.20	1.02	4.22	0.15	0.202	0.33	"	"	"	56153
.....	10.46	3.42	5.92	9.34	1.12	0.045	0.20	"	"	.....	56154
.....	7.18	1.44	4.50	5.94	1.24	0.410	0.20	"	"	.....	56155
.....	8.74	2.34	4.11	6.95	1.79	0.120	0.26	"	"	.....	56156
.....	7.72	2.61	3.95	6.56	1.16	0.105	0.20	"	"	.....	56157
.....	7.07	0.88	5.45	6.33	0.74	0.161	0.66	"	"	.....	56158

## DR. V. P. LAVALLEE, INSPECTOR.

.....	7.64	3.28	3.86	7.14	0.50	0.210	0.33	Present.	None.	.....	59731
.....	6.28	4.18	1.42	5.60	0.68	0.150	0.26	None.	"	Artificial flavour.	59732
.....	5.46	2.42	2.25	4.67	0.79	0.502	0.20	"	Salicylic acid.	"	59733
.....	4.58	0.75	3.16	3.91	0.67	0.225	0.20	Present.	None.	.....	59734
.....	4.89	2.32	2.10	4.42	0.47	0.052	0.46	"	"	.....	59735
.....	4.88	0.93	3.42	4.35	0.55	0.240	0.26	"	"	.....	59736
.....	5.18	1.14	3.37	4.51	0.67	0.060	0.33	None.	"	.....	59737
.....	3.38	2.70	0.65	3.35	0.03	0.112	0.33	Present.	"	.....	59738
.....	5.01	0.73	3.61	4.34	0.67	traces	0.46	None.	"	.....	59739
.....	5.16	4.08	0.61	4.69	0.46	0.065	0.60	"	"	Artificial flavour.	59751

Date of Collection.	Nature of Sample	No. of Sample.	Name and Address of Vendor.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Manufacturer.	Furnisher.
				Quantity.	Cost.

DISTRICT OF EASTERN TOWNSHIPS--

1913.						
Sept.	29	Cream Soda.	1735 J. M. Brunette, Victoria-ville	3 bots.	25	Vendors .....
"	30	"	1736 J. E. Jeannette, Richmond E.	3 "	25	" .....
Oct.	2	Ginger Ale...	1737 M. Moisan, Megantic...	3 "	30	" .....
"	3	Lemon Sour.	1738 J. H. Bryant, Sherbrooke	3 "	....	" .....
"	3	Raspberry ...	1739 D. M. McMahon, Sherbrooke	3 "	....	" .....
"	6	Strawberry...	1740 J. H. Poloquin, Coaticook	3 "	20	" .....
"	9	Raspberry ...	1741 F. B. Perkins, Waterloo	3 "	....	" .....
"	9	Nosi-Kola ...	1742 " " "	3 "	....	" .....
"	9	Champagne Cider.	1743 H. Torand, Waterloo	3 "	....	" .....
"	13	"	1744 F. Orsali & Co, St. Hyacinthe.	3 "	15	" .....

DISTRICT OF MONTREAL--

Oct.	21	Ginger Ale...	58636 D. Legault, 1320 Wellington St., Verdun.	3 bots.	21	J. Christin & Co., Montreal.
"	21	"	58637 N. Gauthier, 1218 Wellington St., Verdun.	3 "	24	Stewart Bottling Co., Montreal.
"	21	Strawberry...	58638 O. Montpetit, 1265 Wellington St., Verdun.	3 "	24	J. Christin & Co., Montreal.
"	31	Ginger Ale...	58639 Trudean Frere, 302 Charlevoix St., Verdun.	3 "	24	Stewart Bottling Co., Montreal.
"	31	Cream Soda...	58640 Taylor and Peacock, 330 Charlevoix St., Verdun.	3 "	15	Chas. Gurd & Co., Montreal.
Nov.	4	Lemon Sour.	58641 N. Labonde, 361 Charlevoix St., Verdun.	....	24	E. F. Kelly, Montreal.
"	4	Ginger Ale...	58642 H. Harel, 361 Charlevoix St., Verdun.	....	24	Rowan Bros., Montreal.
"	4	Champagne Cider.	58643 A. Rathé, 535 Grand Trunk St., Verdun.	....	24	Millars, Montreal.
"	4	Cream Soda...	58644 E. Valade, 230 Chateauguay St., Verdun.	....	21	H. Girouard & Co., Montreal.
"	4	Champagne Cider.	58645 H. Piché, 628 Centre St., Verdun.	....	24	La Renne Bottling Co., Montreal.

SOFT DRINKS.

Results of Analysis.

Inspector's Report (Is not an opinion of a chemist)	Grammes per 100 cc.								Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.	Fixed Acidity as Tartaric Acid.	Alcohol by Volume.	Saccharin.			

J. C. ROULEAU, INSPECTOR.

	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
	0.62	1.37	7.04	8.41	1.21	0.052	0.33	None	None	1755
	7.18	0.26	6.60	6.86	0.32	0.015	0.20	"	"	1736
	8.23	0.42	6.72	7.14	1.09	0.075	0.33	"	"	1737
	9.58	4.37	4.15	8.52	1.06	0.224	0.40	"	Salicylic Acid.	1738
	7.89	3.25	3.64	6.89	1.00	0.33	0.150	Pre-sent	None.	Artificial Flavour. 1739
	4.80	0.61	3.10	3.71	1.09	0.045	0.33	"	"	1740
	6.64	2.63	3.80	6.46	0.18	0.030	0.33	"	"	1741
	4.96	4.97	None.	4.07	0.89	0.07	0.180	None	"	1742
	10.78	5.16	4.2	9.36	1.42	0.240	0.33	Pre-sent	"	Artificial Flavour. 1743
	8.24	4.80	2.07	6.87	0.37	0.432	0.33	None	"	1744

D. J. KEARNEY, INSPECTOR.

	7.04	4.92	2.55	7.47	0.17	0.105	0.20	None	None	Artificial Flavour. 58636
	4.22	0.62	3.32	3.94	0.28	0.300	0.26	Pre-sent	"	58637
	7.12	3.38	3.32	6.70	0.42	0.067	0.33	None.	Salicylic Acid.	Artificial Flavour. 58638
	5.00	0.57	4.54	5.11	0.49	0.262	0.20	Pre-sent	None.	58639
	7.11	0.45	5.51	5.96	1.15	0.098	0.33	None	"	58640
	6.18	2.45	3.65	5.50	0.68	0.172	0.13	"	Salicylic Acid.	58641
	5.50	1.15	3.12	4.27	1.23	0.067	0.10	"	"	58642
	5.98	3.65	1.42	5.07	0.91	0.232	0.66	Pre-sent	None.	Artificial Flavour. 58643
	4.63	4.06	0.46	4.10	0.23	0.075	0.07	"	"	58644
	4.58	2.62	1.72	4.34	0.24	0.065	0.33	"	"	Artificial Flavour. 58645



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.	
				Quantity.	Cent.	Manufacturer.	Furnisher.

## DISTRICT OF VALLEYFIELD—

1913.							
Nov. 12	Ginger Ale...	58661	John McDonald, Beaudette.	River 3 bts.	30	C. Robillard & Co., Montreal.	
" 12	Ginger Ale...	58662	M. Beauchamp, Beaudette.	River 3 " "	45	1,000 Island Mineral Water Co., Brockville.	
" 20	Ginger Ale...	58663	P. J. Pulos, Valleyfield.	3 " "	25	T. Sanial, Valleyfield.	
" 20	Cream Soda	58664	N. Bontin, Valleyfield.	3 " "	30	" " "	
" 20	Ginger Beer...	58665	Salaberry Hotel, Valleyfield.	3 " "	25	" " "	
" 21	Cream Soda	58666	Geo. Greff, Coteau Landing.	3 " "	30	" " "	
" 21	Ginger Ale...	58667	J. E. Lalonde, St. Zotique.	3 " "	30	Goulet Bros., Montreal.	
" 21	Ginger Ale...	58668	E. Poirier, Coteau Landing.	3 " "	60	Pilgrim M. W. Co., Brockville.	
" 21	Lemon Sour	58669	O. Besner, Coteau Landing.	3 " "	60	F. N. Pilgrim, Brockville.	
" 21	Ginger Ale...	58670	Chas. Jasmin, Coteau Landing.	3 " "	30	T. Sanial, Valleyfield.	

## DISTRICT OF OTTAWA—

Oct. 3	Ginger Ale...	59201	J. J. McLaughlin, St., Ottawa	Lyon 3 bts.	16	Vendors	
" 3	Lemon Soda	59202	" " "	3 " "	16	"	
" 3	Cream Soda	59203	" " "	3 " "	16	"	
" 3	Ginger Ale...	59204	Morel Bros., Ottawa.	Bay St., 3 " "	25	"	
" 3	Champagne Cider.	59205	Eug. Mirault, Ottawa.	Rideau St., 3 " "	16	Vendor	
" 3	Iron Tonic	59206	" " "	3 " "	16	"	
" 3	Ginger Ale...	59207	" " "	3 " "	16	"	
" 3	Ginger Ale...	59208	J. R. Shaw, Ottawa.	Bessier St., 3 " "	16	"	
" 3	Lemon Sour	59209	" " "	3 " "	16	"	
" 3	Ginger Ale...	59210	A. L. Pinard & Sons, Rideau St., Ottawa.	3 " "	16	Pilgrim's M. W. Co., Aylmer, P.Q.	

## SOFT DRINKS.

Inspector's Report. (Is not an expression of Opinion)	Results of Analysis.							Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Grammes per 100 cc.									
	Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.	Fixed Acidity as Tartaric Acid.	Alcohol by Volume.			

## D. J. KEARNEY, ACTING INSPECTOR.

	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
.....	4.22	1.26	2.90	4.16	0.06	0.120	0.07	None.	None.	58661
.....	4.10	1.78	1.95	3.77	0.33	0.090	0.20	"	"	58662
.....	5.94	3.85	1.75	5.60	0.34	0.097	0.40	"	"	58663
.....	7.91	1.71	5.24	6.95	0.99	0.038	0.13	Present.	"	58664
.....	6.18	3.48	2.45	5.93	0.25	0.09	0.40	"	"	58665
.....	7.16	0.54	5.90	6.44	0.72	0.045	0.20	None.	"	58666
.....	4.34	2.75	1.16	3.91	0.43	0.105	0.20	"	"	58667
.....	3.52	1.74	1.65	3.39	0.13	0.103	0.20	Present.	"	58668
.....	3.06	2.83	0.10	2.90	0.16	0.165	0.33	None.	"	58669
.....	5.70	0.92	3.96	4.88	0.82	0.070	0.33	"	"	58670

## J. A. RICKEY, INSPECTOR.

.....	9.09	3.09	5.72	8.81	0.24	0.214	0.33	None.	None.	59201
.....	9.08	2.51	5.92	8.43	0.65	0.182	0.20	"	"	59202
.....	9.41	2.80	5.78	8.58	0.84	0.060	0.26	"	"	59203
.....	5.16	0.65	4.03	4.68	0.48	0.352	0.20	Present.	"	59204
.....	4.48	3.98	None.	3.98	0.50	0.180	0.40	None.	"	Artificial flavour. 59205
.....	4.40	1.80	1.92	3.72	1.08	0.067	0.26	"	"	59206
.....	2.82	1.84	0.71	2.55	0.27	0.045	0.20	Present.	"	59207
.....	4.78	0.56	3.59	4.15	0.63	0.337	0.26	"	"	59208
.....	4.45	1.00	3.26	4.26	0.19	0.168	0.20	None.	"	59209
.....	4.22	2.46	1.63	4.09	0.13	0.180	0.20	Present.	"	59210

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.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF KINGSTON—							
1918.							
Sept. 18	Ginger Ale	60046	S. V. Home, Kingston	3 bots.	10	Vendor	
"	Lemon Sour	60047	"	3 "	10	"	
"	Soda Water	60048	"	3 "	10	"	
"	Ginger Beer	60049	"	3 "	10	"	
"	Ginger Ale	60050	J. M. Portland, Kingston	3 "	35	Grand Co., Montreal	
"	Soda Water	60051	J. Gordon, Kingston	3 "	30	"	
"	Ginger Beer	60052	Geo. Thompson, Kingston	3 "	30	Vendor	
"	Lemon Sour	60053	"	3 "	15	"	
"	Ginger Ale	60054	"	3 "	20	"	
"	Lemon Sour	60055	E. Beattie, Kingston	3 "	45	"	
DISTRICT OF TORONTO—							
Sept. 17	Apple Cider	57474	G. Fanning, 11 Cher Hoe wed st., Toronto.	3 bots.	15	Vendor	
"	Cherry Cider	57475	Toronto Soda Water Co., Toronto.	3 "	20	Vendors	
"	Sarsaparilla	57476	Dom. Soda Water Mfg Co., 24 Wait on st., To onto.	3 "	15	"	
"	Cream Soda	57477	Chas. Wilson, Ltd., 517 3 Sherbourne st., Toronto.	3 "	25	"	
"	Iron Tonic	57478	Petersons, Ltd., 194 Front 3 st., east, Toronto.	3 "	16	"	
"	Lemon Sour	57479	Ont. Soda Water Mfg. Co., 3 201 McCaul st., Toronto	3 "	15	"	
"	Ginger Ale	57480	The Union Soda Water 3 Mfg. Co., 30 William st., Toronto.	3 "	15	"	
"	Concentrated Lemonade	57481	Dalton Bros., 11 Front st. 3 east, Toronto.	3 "	30	"	
"	Jersey Cream	57482	L. A. Kirkland, 36 Dundas 3 st., Toronto.	3 "	35	Vendor	
"	Ginger Beer	57483	The Mineral Springs, Ltd., 3 319 Front st. east, Tor onto.	3 "	36	Vendors	

SOFT DRINKS.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.								Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Grammes per 100 cc.						Alcohol by Volume.	Saccharin.				Preservatives.
	Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.	Fixed Acidity as Tartaric Acid.						

JAS. HOGAN, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.						
	7.65	0.95	5.97	6.92	0.73	0.160	0.40	None	None			60046
	6.56	1.49	4.60	6.00	0.47	0.063	0.40	Pre- sent.	"			60047
	4.70	2.25	1.83	4.08	0.62	0.060	0.46	None	"			60048
	5.00	2.00	1.80	3.80	1.10	0.300	2.86	"	"			60049
	8.40	1.34	6.24	7.58	0.82	0.210	0.40	Pre- sent.	"			60050
	0.060									Bases present, sodium and calcium.		60051
	7.00	2.23	4.08	6.31	0.69	0.157	0.20	None	None			60052
	6.65	2.94	3.50	6.44	0.21	0.119	0.40	"	"			60053
	6.79	1.37	5.00	6.37	0.42	0.232	0.33	"	"			60054
	6.00	0.95	4.46	5.41	0.59	0.050	0.46	"	"			60055

Alcohol in slight excess.

H. J. DAGGER, INSPECTOR.

	10.50	4.69	4.19	8.88	1.62	0.105	0.26	None	None	Artificial flavor.		57474
	6.92	0.97	5.60	6.57	0.35	0.08	0.120	"	"			57475
	5.85	2.96	2.15	5.11	0.74	0.210	0.20	"	"			57476
Quality first.	10.90	4.82	4.77	9.59	1.31	0.255	0.13	"	"			57477
Genuine flavours.	6.90	3.70	2.43	6.13	0.77	0.128	0.20	"	"			57478
	4.53	1.53	2.76	4.29	0.24	0.075	0.33	Pre- sent.	"			57479
	4.75	1.15	3.22	4.37	0.38	0.060	0.33	None	"			57480
A pure lemon product contains no other acid.	48.70	36.58	5.90	42.50	6.22	4.09	0.99	"	"			57481
	7.36	5.00	1.78	6.78	0.57	0.120	0.13	"	"			57482
Yorksprings	5.92	2.54	3.15	5.69	0.23	0.285	2.62	"	"			57483

Alcohol in slight excess.

\* The acid was isolated and identified as citric acid, and estimated as citric acid (4.09 gms. per 100 cc.)

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.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF HAMILTON—

1913.							
Sept. 30	Orange Phosphate.	50870	Sutherlands, Ltd., York St., Hamilton, Ont.	3 bts.	25	Vendors.....	
" 30	Lemon Sour...	50871	" " "	3 " "	25	" .....	
" 30	Ginger Ale...	50872	" " "	3 " "	20	" .....	
" 30	Sarsaparilla...	50873	" " "	3 " "	25	" .....	
" 30	Lagerine .....	50874	William Bolus, 412 York St., Hamilton, Ont.	3 " "	30	The Kuntz Brewery, Ltd.	
" 30	Ginger Ale...	50875	C. Katzemire, 105 John St., Hamilton, Ont.	3 " "	35	Cummer & Son, Hamilton.	
" 30	Sarsaparilla...	50876	Geo. O. Elder, 121 McGregor St., Hamilton, Ont.	3 " "	30	" .....	
" 30	Lemon Sour...	50877	Louis Eeonople, 2 Merrick St., Hamilton, Ont.	3 " "	20	" .....	
" 30	Lemon Sour...	50878	E. Fanman, 448 York St., Hamilton, Ont.	3 " "	30	Vendor.....	
" 30	Ginger Ale...	50379	" " "	3 " "	30	" .....	

## DISTRICT OF WINDSOR—

Oct. 9	Ginger Ale...	54416	D. Donaldson, Sarnia...	3 bts.	45	Sharp & Kirkpatrick, Sarnia.	
" 9	Soda Water...	54417	" " "	3 " "	30	Gummer & Son, Hamilton.	
" 9	Sanitaris Water.	54418	" " "	3 " "	40	Sanitaris Ltd., Arnprior, Ont.	
" 9	Ginger Beer...	54419	" " "	3 " "	40	" .....	
" 9	Ginger Ale...	54420	" " "	3 " "	40	Goderich M. W. Co., Goderich, Ont.	
" 9	Mineral Water	54423	C. H. Pugh, Sarnia...	3 " "	25	Saugeen M. W. Co., Southampton.	

SOFT DRINKS.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.							Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Grammes per 100 cc.									
	Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Sugar.	Fixed Acidity as Tartaric Acid.	Alcohol by Volume.			

J. J. COSTIGAN, ACTING INSPECTOR.

	p. c.	p. c.	p. c.	p. c.	p. c.		p. c.				
.....	7.48	5.14	2.18	7.32	0.16	0.20	0.165	None.	Salicylic acid.	.....	50870
.....	8.12	3.52	3.6	7.17	0.95	0.103	0.07	"	None.	.....	50871
.....	6.31	0.82	5.08	5.90	0.41	0.100	0.26	"	"	.....	50872
.....	8.82	2.01	6.40	8.41	0.41	0.33	0.065	"	Salicylic acid.	.....	50873
.....	36						1.34			Proof spirit 2.34.	50874
.....	1.88	0.60	1.22	1.82	0.08	0.150	0.20	Present.	None.	.....	50875
.....										.....	50876
.....	1.78	0.38	1.20	1.38	0.20	0.098	0.26	None.	None.	.....	50877
.....	9.96	2.06	6.81	8.90	1.06	0.063	0.07	"	"	.....	50878
.....	9.54	1.68	7.85	9.53	0.01	0.178	0.20	"	"	.....	50879

JNO. TALBOT, INSPECTOR.

.....	4.77	1.58	2.61	4.19	0.58	0.270	0.20	None.	None.	.....	54416
Club Soda	0.020									Bases present, sodium and calcium.	54417
The Monarch of Mineral Water.	0.483									Magnesium and Potassium sodium and calcium.	54418
Crested.....	10.60	3.35	5.17	8.82	1.18	0.127	0.33	None.	None.	.....	54419
Sparkling Dry.	5.57	1.42	3.02	4.44	1.13	0.165	0.26	"	"	.....	54420
Saugeen Natural Mineral Water.	0.310									Bases. Ca, Mg, Na, and K. acid radicals. SO <sub>3</sub> and Ce. traces of CO <sub>2</sub> .	54423

\*Broken in transit.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name of Manufacturer as given.	Address of or Furnisher, or Vendor.
				Quantity.	Cents.	Manufacturer.

## DISTRICT OF WINDSOR—

1916.							
Oct.	9 Ginger Ale.	54424	C. H. Pugh, Sarnia, Ont.	3	bots.	35	M. A. Litor
"	9 Ginger Ale.	54425	" " " "	3	"	30	S. J. ...
"	9 Ginger Ale.	54426	" " " "	3	"	27	Leo
"	9 Soda Water.	54427	" " " "	3	"	30	Leo

## WINNIPEG—

Sept.	26 Ginger Beer	48946	Pelissier & Sons, Winnipeg	3	"	15	M. A. Litor
"	26 Ale	48947	" " " "	3	"	"	"
"	27 Crystal Soda	48948	E. L. Drewery, Winnipeg	3	"	"	Ver
"	27 Ginger Beer	48949	" " " "	3	"	"	"
"	29 Ginger Ale	48950	Blackwood, Ltd., Winnipeg	3	"	"	Ver
"	29 Ginger Beer	48951	" " " "	3	"	"	"
"	29 Lemonade	48952	" " " "	3	"	"	"
"	29 Cream Soda	48953	The American Soda Water Co., 358-360 Flora St., Winnipeg	3	"	15	"
Oct.	27 Ginger Beer	48954	The Brandon Brewing Co., Brandon.	3	"	"	"
"	27 Ginger Ale	48955	The Brandon Brewing Co., Brandon.	3	"	"	"

SOFT DRINKS.

Inspector's Report. Is not an expression of Opinion.	Results of Analysis								Remarks.	No. of Sample.	Remarks and opinion of the Chief Analyst.	
	Grammes per 100 cc.											
	Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.	Fixed Acidity as Tartaric Acid.	Alcohol by Volume.	Saccharin.				Preservatives.
Esperanza- Le-Ginger Ale.	1.70	0.52	1.12	1.61	0.05	0.102	0.13	Pres.	None	sent.	54121	
YakSprings DryGinger Ale.	5.61	1.49	3.50	5.45	0.56	0.075	0.13	None	"	"	54125	
London Dry GingerAle. CaleSola.	7.48	2.85	2.57	5.40	2.08	0.255	0.20	"	"	"	54126	
	0.020	...	...	...	...	...	...	...	...	...	54127	Bases pre- sent, so- dium and calcium.

Concluded.

A. C. LARIVIÈRE, INSPECTOR.

Leaver Brand.	4.76	1.00	2.26	3.26	1.59	0.105	0.46	Pres.	None	sent.	48946	
	3.30	1.07	2.15	3.30	0.00	0.105	0.20	"	"	"	48947	
Golden Key Brand.	0.140	...	...	...	...	...	...	...	...	...	48948	Bases pre- sent, sodim. & Calcium.
	5.70	1.70	0.99	5.10	0.10	0.277	1.71	None.	sali- cyclic acid.	"	48949	Alcohol above 2%
	8.13	1.20	6.71	7.91	0.22	0.322	0.26	"	None.	"	48950	
	7.96	1.04	6.70	7.74	0.22	0.270	0.33	"	"	"	48951	
	7.12	1.22	5.38	6.60	0.52	0.081	0.07	"	"	"	48952	
	...	...	...	...	...	...	...	...	...	...	48953	
	8.13	0.44	5.78	6.22	1.50	0.045	0.40	None.	Sal- cyclic acid.	"	48954	
	10.44	1.38	7.65	9.04	1.49	0.240	0.33	"	None.	"	48955	

\* Broken in transit



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.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF ROCKY MOUNTAINS—

1913.							
Oct.	3 Ginger Ale...	49963	Thorpe & Co., Nelson, B.C.	3	bots.	40	Vendors
"	3 Iron Brew....	49964	" " "	3	"	40	"
"	3 Cream Soda...	49965	" " "	3	"	40	"
"	3 Sarsaparilla	"	" " "	3	"	"	"
"	3 Soda Water.	49967	" " "	3	"	25	"
"	17 Iron Brew....	49971	Jas. Wood, Fernie, B.C.	3	"	30	Fernie Fort Steele By. Co., Fernie, B.C.
"	17 Ginger Ale...	49972	" " "	3	"	30	"
"	17 Ginger Beer...	49973	" " "	3	"	30	"
"	17 Strawberry Soda.	49974	" " "	3	"	30	"
"	17 Cream Soda...	49975	" " "	3	"	30	"

## DISTRICT OF VICTORIA—

Oct.	7 Ginger Ale...	57649	H. A. Lilley, 1417 Douglas St., Victoria, B.C.	3	bots.	30	Thorpe & Co., Ltd., Victoria, B.C.
"	7 " "	57650	" " "	3	"	15	C. Marleys, Victoria, B.C.
"	7 Lime Juice and Soda...	57652	V. Paul, 611 Johnston St., Victoria, B.C.	3	"	15	Kirk & Co., Ltd., Victoria, B.C.
"	15 Iron Brew....	57654	John Balma, 812 Yates St., Victoria, B.C.	3	"	15	Royal Mineral Water Co., Victoria, B.C.
"	18 Root Beer...	57665	K. Peppas, Cook and North Park St., Victoria, B.C.	3	"	15	Kirk & Co., Ltd., Victoria, B.C.
"	18 Lemonade...	57666	" " "	3	"	15	" " "
"	18 Ginger Beer...	57667	" " "	3	"	30	" " "
"	18 Lemonade...	57668	" " "	3	"	15	Royal Mineral Water Co., Victoria, B.C.
"	21 Ginger Ale...	57670	W. Stanntarous, 620 Yates St., Victoria, B.C.	3	"	15	Thorpe & Co., Ltd., Victoria, B.C.
"	21 Raspberry...	57671	" " "	3	"	15	" " "

SOFT DRINKS.

Inspector's Report. (Is not an Expression of Opinion.)	Results of Analysis.									Remarks.	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Grammes per 100 cc.						Alcohol by Volume.	Saccharin.	Preservatives.			
	Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.	Fixed Acidity as Tartaric Acid.						

THOS. PARKER, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.	p. c.		p. c.				
.....	7.49	2.83	4.40	7.25	0.26	0.157	0.33	None	None	.....	49963
.....	9.71	3.92	4.53	8.4	1.26	0.150	0.26	"	"	.....	49964
.....	6.52	3.53	2.21	5.84	0.68	0.165	0.07	"	"	.....	49965
.....	7.16	5.00	2.00	7.00	0.16	0.20	0.20	"	"	.....	49966
.....	0.060									Bases present, sodium & Calcium.	49967
.....	7.22	1.01	5.76	6.77	0.45	0.157	0.60	None	None	.....	49971
.....	9.00	1.78	6.07	7.85	1.15	0.375	0.20	Present.	"	.....	49972
.....	9.42	4.97	3.38	8.25	1.17	0.125	0.20	None.	"	.....	49973
.....	6.98	1.91	4.91	6.82	0.16	0.060	0.20	"	"	.....	49974
.....	7.13	1.01	5.76	6.77	0.36	0.038	0.33	"	"	.....	49975

D. OSULLIVAN, INSPECTOR.

Very old fashioned Ginger Ale.	6.58	2.59	2.33	4.92	1.66	0.315	1.13	None	None	.....	57649
.....	5.86	3.75	1.75	5.50	0.26	0.225	0.33	Present	"	.....	57650
.....	5.80	4.66	0.40	5.06	0.74	0.20	0.045	None	"	.....	57652
.....	5.46	1.88	3.20	5.08	0.38	0.292	0.07	"	"	.....	57654
.....	5.93	1.27	1.6	5.55	0.33	0.20	0.045	"	"	.....	57665
.....	4.78	2.46	0.75	2.71	1.07	0.203	0.33	"	"	.....	57666
Old English	3.41	2.12	0.4	5.68	0.83	0.352	0.86	"	"	.....	57667
.....	5.18	1.41	3.70	5.11	0.07	0.112	0.46	Present	"	.....	57668
.....	3.70	2.05	1.49	3.54	0.16	0.210	0.20	None.	"	.....	57670
.....	3.75	2.10	1.58	3.68	0.07	0.150	0.20	"	"	Artificial Flavour.	57671

