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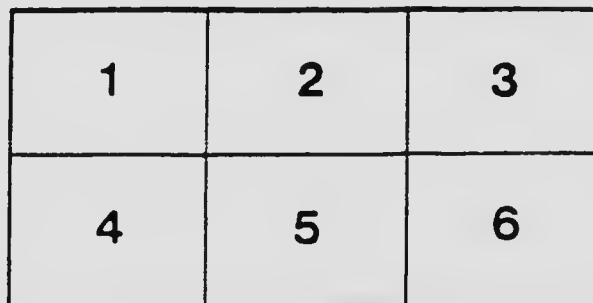
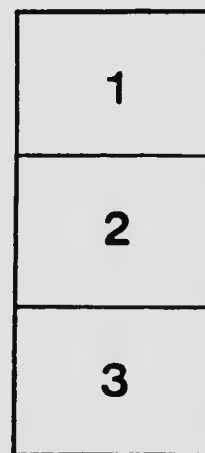
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O. H. M. S.

W. J. Gerald
Deputy Minister.

LABORATORY

OF THE

INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 111

OLIVE OIL



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OLIVE OIL

OTTAWA, Ont., October 19, 1905.

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

SIR,—In accordance with your instructions a collection of samples of olive oil (salad oil) was made in the months of August and September last. A report concerning these oils has been addressed to me by Mr. A. McGill, who, during my absence, was Acting Chief Analyst, which report I beg now to transmit, recommending its publication as Bulletin No. 111.

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

THOMAS MACFARLANE,
Chief Analyst.

OTTAWA, Ont., October 18, 1905.

THOS. MACFARLANE, Esq.,
Chief Analyst.

DEAR SIR,—I beg to hand you a report upon 108 samples of salad oils, with accompanying tables.

Olive oil is a very important food in the countries of Southern Europe and although for the most part replaced by butter in Canada, is still largely in use for the making of salads. The ordinary purchaser of salad or table oil, supposes himself to be buying olive oil. The terms 'Olive Oil' and 'Salad Oil' are synonymous with most people.

On account of its cheapness cotton seed oil is largely substituted for olive oil by purveyors; and it is quite certain that many retail dealers furnish cotton seed oil to their customers without knowing that they do so. The difficulty is increased by the fact that cotton seed oil is frequently put up in bottles which resemble the peculiar form long adopted by certain large manufacturers of olive oil, and even the labels are made to appear very similar. An example in point is the following: in which it is

quite apparent that a studied attempt is made to simulate the label of Barton & Guestier.



While it is certain that cotton seed oil lacks the peculiar flavour of olive oil, it is probable that, so far as food value goes, it may be little inferior to that article. Certain highly refined grades of cotton seed oil may be regarded as valuable food; and as these take the place of olive oil in the making of salads, it is perhaps not unnatural that they should be termed salad oils. It is, however, much to be regretted, that such brands of cotton seed oil are not sold under some characteristic name, such as cotton seed salad oil, thus making their fraudulent sale impossible.

When a salad oil is asked for, the sale of cotton seed oil, properly refined, cannot be called adulteration; but when the article offered is plainly named as olive oil, the substitution of cotton seed oil in whole or in part is, of course, a case of adulteration.

The accompanying tables give the results of examination of 108 samples of salad oils. Of this number 84 were sold as olive oil; and 24 were merely termed 'Salad Oil' by the vendor. Without exception, these last were found to be cotton seed oil. Of the 84 samples sold as olive oil, 16 are found to be cotton seed oil, and, of course, these fall into the class 'Adulterated under the Act'. Of the remainder, two give somewhat doubtful reactions, probably due to long keeping. The remaining 66 samples are genuine olive oil. The samples now reported may be classified as follows:—

Genuine olive oil	66 samples.
Doubtful "	2 "
Cotton seed oil, sold as salad oil	24 "
" sold as olive oil	16 "
Total	108

Of course, only those of the last class can be legally considered as adulterated.

Yours truly,

A. MCGILL.

October 18, 1905.

TABLE I.—INSPECTION OF OLIVE OIL (SALAD OIL)—AUGUST, 1905.

Date of Collection.	Nature of Sample.	Serial Number.	Collector's Number.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by Vendor.	Inspector's Report.
					Quantity.	Value.		
<i>District of Nova Scotia—R. J. Wough, Inspector.</i>						\$	cts.	
Aug. 15	Olive oil	1	27065	A. V. Rand, Wolfville, N.S.	3 bbls.	0 75	J. Plagnuel, France.	
" 15	"	2	27064	F. C. Churehill	3 "	0 50	Brown & Webb, Halifax	
" 17	"	3	27079	R. B. Adams & Co., Halifax.	3 "	0 60	Lazenby & Son, England	
" 18	"	4	27083	C. E. Choat & Co.	3 "	0 45	Crosse & Blackwell, England	
" 18	"	5	27087	Dillon Bros.	3 "	0 75	Barton & Guestier, France	
" 18	"	6	27094	H. W. Wentzell	3 "	0 45	C. H. Binks, Montreal	
" 18	"	7	27095	E. W. Veresse	3 "	0 60	Crosse & Blackwell, England	
" 18	"	8	27096	R. N. McDonald	3 "	0 75	E. Lazenby & Son	
" 18	"	9	27098	Jas. Scott & Co.	3 "	0 60	Larouche freres, France	
" 18	"	10	27099	W. C. Anderson	3 "	0 75	E. Lazenby & Son, England	
<i>District of New Brunswick—J. C. Ferguson, Inspector.</i>								
Aug. 15	Olive oil (salad)	1	24056	The Canadian Drug Co., Ltd., 27 and 29 Mill St., St. John, N.B.	3 bbls.	1 50	Imported by vendors from France.	Brand of oil, Vestal.
" 16	Olive oil (salad)	2	24059	W. A. Porter, 215 Union St., St. John, N.B.	3 "	0 60	Lazenby's, London, England	"
" 18	Olive oil	3	24068	McPherson Bros., 181 Union St., St. John, N.B.	3 "	1 05	E. & A. Jousas, Hanart Auzin (noord) et Bruxelles.	"
" 19	"	1	24071	Thomas J. Dean, No. 80, co. Wall St. and City Road.	3 "	0 60	Crosse & Blackwell, London, England	"
" 17	"	5	24064	Vanwart Bros., cor. Charlotte and Duke Sts., St. John, N.B.	3 "	1 26	Henri Jousas & Co., Montreal, Que.	"
" 17	"	6	24067	Puddington & Merritt, 55 Charlotte St., St. John, N.B.	3 "	0 90	Hudon, Helbert & Co.	"
" 24	"	7	24082	Estate of E. J. Smith, Main St., Shediac, Westmoreland Co., N.B.	3 "	0 30	E. Leubon, Nice, France	"
Sept. 2	"	8	24110	T. B. Barker & Sons, 57 and 59 Deck St., St. John, N.B.	3 "	0 60	T. B. Barker & Sons, 57 and 59 Deck St., St. John, N.B.	"
" 2	"	9	24111	Ernest E. McMichael, 49 Deck St., St. John, N.B.	3 "	0 45	C. H. Binks, Montreal, Que.	"
" 2	Olive oil (salad)	10	24112	J. & F. Watson, 399 cor. Elm and Main Sts., St. John, N.B., north end.	3 "	0 75	E. Lazenby & Son, Ltd., 18 Trinity St., London, England	"

TABLE I.—INSPECTION OF OLIVE OIL (SALAD OIL)—AUGUST, 1905—Continued.

Date of Collection.	Nature of Sample.	Serial Number.	Collector's Number.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by Vendor.	Inspector's Report.
					Quantity.	Value.		
Aug. 12	Olive oil	1	24490	<i>District of Prince Edward Island</i> T. Moore, Inspector.		\$ cts.		
" 12	"	2	28203	J. G. Jamieson, Charlottetown	1 pc.	0 61	Brown & Webb, Halifax, N.S.	
" 12	"	3	28204	A. W. Reddin "	1 "	0 64	Lynan, Sons & Co., Montreal.	
" 15	"	4	28206	G. E. Hughes "	1 "	0 64	Evans & Son, Montreal.	
" 15	"	5	28209	Johnson & Johnson "	1 "	1 60	Lynan, Sons & Co., Montreal.	
" 16	"	6	28211	McDonald & McKinnon "	1 "	0 45	Evans & Son, Montreal.	
" 17	"	7	28217	John Knight, Georgetown	1 "	0 35	Imperial Oil Co., Halifax.	
" 18	"	8	28223	Ruben Tuplin, Kensington	1 "	0 32	Simpson Bros., Halifax.	
" 18	"	9	28227	W. A. Waugh & Steeves, Summerside	1 "	0 64	Brown & Webb "	
" 18	"	10	28229	P. N. Fennan "	1 "	0 35	Imperial Oil Co. "	
" 18	"		28233	R. T. Hohman "	1 "			
Sept. 11	Salad oil	1	2 005	<i>District of Quebec—C. E. Roy, Inspector.</i>	1 doz.	0 25	Wm. Patterson, Montreal.	
" 14	"	2	29375	Ed. Morin & Co., Mountain Hill	1 "	0 30	Billehoue, Dillon & Co., Montreal.	
" 15	"	3	29371	Drouin et freres, 37 St. Andre		0 25	N. K. Fairbank Co. "	
" 18	"	4	29322	A. E. Vallard, Quebec		0 30	E. L. Morin et Cie, Quebec.	
" 18	"	5	29324	A. Joseph & Son, Quebec		0 13	Southern Oil Co., Savannah.	
" 19	"	6	29327	Peders & Lefebvre, Quebec		0 15	Henri Jonas, Montreal.	
" 20	"	7	29327	G. & Ed. Couture, Lewis		0 30	Robert Cream Co., Quebec.	
" 19	"	8	29330	W. Brunet Cie, Quebec.		0 20	C. H. Binks Co., Montreal.	
" 21	"	9	29332	J. Buelanan, Lewis.		0 20	Henri Jonas Co. "	
" 22	"	10	29330	Turcotte et frere, Quebec		0 20	Henri Jonas Co. "	
" 22	"		29330	O. Carrigan et fils, Three Rivers.				
Aug. 23	Olive oil	1	24768	<i>District of St. Hyacinthe—J. C. Eulanda, Inspector.</i>	3 bbls.	0 30	E. Leaulon Milan, Montreal.	
" 23	"	2	24769	E. Dion, Valleyfield.	3 "	0 45	Evans & Son "	
" 24	"	3	24770	G. E. Brown, Pt. Fortune.	3 "	0 75	L. Chaput & fils "	
" 25	"	4	24771	Theophile Ross, Buckingham.	3 "	0 30	Not known.	
" 31	"	5	24772	Robert & Cie, St. Jerome	1 pint.	0 40	H. Patisier, Aix en Provence, France.	
Sept. 1	"	6	24773	A. Francoeur & Cie, Sorel	3 bbls.	0 30	E. Leaulon, Nies, France.	
" 6	"	7	24774	Julien Courteau, Nicolet	3 "	0 70	Barton & Guestier, Bordeaux, France.	
" 6	"		24774	Rayman & freres, St. Hyacinthe.				

TABLE 1.—INSPECTION OF OLIVE OIL (SALAD OIL)—AUGUST, 1905—Concluded.

Date of Collection.	Nature of Sample.	Serial Number.	Collector's Number.	Name and Address of Vendor.	Quantity.	Cost.		Name and Address of Manufacturer or Furnisher, as given by Vendor.	Inspector's Report.
						Value.	\$ cts.		
Aug. 26	Olive Oil (salad).	6	28431	<i>District of Toronto—A. E. Sanderson, Acting Inspector—Con.</i>	1 pint.			Not known.	
" 28	" "	7	28434	J. R. Byers, Oakville.	1 "	0 50	0 60	E. Loubon, Nice, France.	
" 28	" "	8	28440	W. J. O'Brien, 94 "	1 "	0 40	0 30	Not known.	
" 28	" "	9	28444	W. B. Smith, 245 King St. e. "	1 "	0 30	0 40	J. Winer, wholesale druggist.	
" 28	" "	10	28447	H. W. Ralph, Dundas, Ont. "	1 "				
Aug. 22	Olive oil.	1	22401	<i>District of London—T. Kidd, Inspector.</i>	3 bbls.	1 00	0 70	Olive Growers Association, California.	Sylhuar brand.
" 17	" "	2	22585	Charles Nairn, Goderich.	3 "	0 70	0 70	Linton C. Ltd., London, England.	
" 17	" "	3	22586	Jewry & Gregory.	3 "	0 70	0 50	Sanders & Evans, Toronto.	
" 24	" "	4	22414	John Garvey, London, Ont.	3 "	0 50	0 40	Dandelle & Gaudet, Bordeaux, France.	
" 24	" "	5	22410	John Lawson.	3 "	0 40	0 65	Barton & Guescier, Bordeaux, France.	
" 14	" "	6	22380	H. G. Leuson, Harrisville.	3 "	0 75	0 75	J. Winer & Co., Hamilton, Ont.	
" 15	" "	7	22383	G. A. Woodhouse, Walkerton.	3 "	0 75	0 75	Reini & Co., Bordeaux, France.	
" 12	" "	8	22374	Cardino Bros., Seaford.	3 "	0 70	0 70	Perkins, Ince & Co., Toronto.	
" 15	" "	9	22385	W. A. McClean, Owen Sound.	3 "	0 75	0 75	Sanders & Evans, Toronto.	
" 16	" "	10	22382	Thomas McCarral, Mesford.	3 "				
Sept. 11	Olive oil.	1	25574	<i>District of Manitoba—W. M. Conklin, Inspector.</i>	1 pint.	0 35	0 25	Crusse & Blackwell, London, England.	
" 11	" "	2	25575	K. McKenzie & Co., Winnipeg.	2 bbls.	0 25	0 45	The Bole Drug Co., Winnipeg.	
" 11	" "	3	25576	Campbell Bros. & Wilson, Winnipeg.	2 "	0 25	0 25	F. F. Dalley & Co., Hamilton.	
" 12	" "	4	25578	G. F. I. Galt, Winnipeg.	1 pint.	0 45	0 20	Fratelli & Alfonsi, Bordeaux, France.	
" 12	Salad oil.	5	25579	Foley, Leck & Larson, Winnipeg.	2 bbls.	0 50	0 50	Glazer Kohn, Chicago, U.S.A.	
" 12	Olive oil.	6	25580	John, Marrin & Co.	1 pint.	0 10	0 10	Goldberg, Bowen & Co., San Francisco.	
" 12	Salad oil.	7	25581	The Bole Drug Co.	1 "			Swift & Co., Chicago.	This sample was disrupted after sample had been taken.
" 13	Lucea oil.	8	25582	A. R. Christie.	2 bbls.	0 50	0 40	G. F. Sutton, Son & Co.	
" 14	Olive oil.	9	25583	The Gordon Mitchell Drug Co., Winnipeg.	1 pint.	0 40	0 55	Polson & Co., Kingston, Ont.	
" 14	" "	10	25584	J. G. Snider Drug Co., Winnipeg.	1 "			Martin, Bole, Wynne & Co., Winnipeg.	

TABLE II.—INSPECTION OF OLIVE OIL—(SALAD OIL).

District.		Collector's Number	Refractive Index at 15.5 C.	Specific Gravity at 15.5 C.	Iodine Number	Nitric Acid Colour Test.	Halphen's Colour Test.	Name under which Sold.	Opinion.
Nova Scotia	1	27063	1.4686	0.913	79.6	Green...	No colour...	Olive oil	Genuine olive oil.
	2	27064	1.4683	0.915				"	"
	3	27079	1.4702	0.915				"	"
	4	27083	1.4704	0.915				"	"
	5	27087	1.4700	0.916				"	"
	6	27084	1.4704	0.918				"	"
	7	27095	1.4706	0.917				"	"
	8	27096	1.4697	0.915				"	"
	9	27098	1.4696	0.914				"	"
	10	27099	1.4703	0.918				"	"
New Brunswick	1	24056	1.4706	0.915				"	"
	2	24059	1.4700	0.918				"	"
	3	24068	1.4705	0.916				"	"
	4	24071	1.4707	0.916				"	"
	5	24064	1.4694	0.914				"	"
	6	24067	1.4705	0.916	96.4	Brown...	Red...	(salad).....	Cotton seed oil. (genuine olive oil.
	7	24110	1.4738	0.921				"	"
	8	24111	1.4703	0.918				"	"
	9	24112	1.4699	0.912				"	"
	10	24112	1.4706	0.915				"	"
P. E. Island	1	24459	1.4710	0.916				"	"
	2	28208	1.4706	0.910				"	"
	3	28206	1.4704	0.916				"	"
	4	28209	1.4704	0.916				"	"
	5	28211	1.4735	0.921	93.8	Brown...	Red...	Salad oil.....	Cotton seed oil.
	6	28217	1.4691	0.911				"	"
	7	28223	1.4696	0.911	93.8	Green-brown	No colour...	Olive oil.....	Genuine olive oil.
	8	28227	1.4708	0.917	90.7	Brown...	Red...	"	Doubtful; probably genuine.
	9	28229	1.4689	0.913	78.3	Brownish	No colour...	"	"
	10	28233	1.4689	0.913	96.0	Brownish	Red...	Salad oil.....	Genuine olive oil.
Quebec	1	29005	1.4735	0.925	102.8	Brown...	Red...	"	"
	2	29037	1.4749	0.920	106.2	"	"	"	"
	3	29021	1.4749	0.920	100.4	"	"	"	"
	4	29022	1.4740	0.918	102.8	"	"	"	"
5	29024	1.4737	0.918	102.8	"	"	"	"	

6	29027	1-4736	0-917	104-0	"	"	"	"	"	"	"	"
7	29030	1-4738	0-918	104-9	"	"	"	"	"	"	"	"
8	29038	1-4738	0-922	108-5	"	"	"	"	"	"	"	"
9	29032	1-4740	0-913	103-4	"	"	"	"	"	"	"	"
10	29039	1-4748	0-914	102-8	"	"	"	"	"	"	"	"
1	24768	1-4738	0-922	109-4	Brown	Red			Olive oil	Adulterated.		
2	24769	1-4738	0-921	108-5	"	"			Salad oil	Cotton seed oil.		
3	24770	1-4704	0-916	108-5	"	"			Olive oil	Genuine olive oil.		
4	24771	1-4742	0-922	108-5	Brown	Red			"	Adulterated.		
5	24772	1-4733	0-916	102-0	"	"			"	"		
6	24773	1-4733	0-915	103-6	"	"			"	"		
7	24774	1-4698	0-913	79-9	Green	No colour			"	"		
8	24775	1-4728	0-920	110-1	Brown	Red			Salad oil	Genuine olive oil.		
9	24776	1-4725	0-921	93-5	"	"			Olive oil	Adulterated.		
10	24777	1-4725	0-917	90-4	Brownish	Reddish			"	"		
1	26821	1-4749	0-918	113-7	Brown	Red			See note in Table I.	Cotton seed oil.		
2	26822	1-4703	0-917	113-7	"	"			"	"		
3	26823	1-4745	0-923	105-0	Brown	Red			Salad oil	Genuine olive oil.		
4	26824	1-4738	0-924	108-5	"	"			"	Cotton seed oil.		
5	26825	1-4693	0-915	108-5	"	"			See note in Table I.	"		
6	26826	1-4704	0-917	7	"	"			Olive oil	Genuine olive oil.		
7	26827	1-4703	0-916	7	"	"			"	"		
8	26828	1-4702	0-916	7	"	"			"	"		
9	26829	1-4740	0-923	109-4	Brown	Red			"	"		
10	26830	1-4710	0-917	103-0	Brown	Red			Salad oil	Adulterated with cotton seed oil.		
1	28402	1-4742	0-924	107-0	"	"			Is cotton seed oil.	Genuine olive oil.		
2	28404	1-4736	0-922	107-0	"	"			Olive oil	Adulterated.		
3	28525	1-4705	0-916	103-9	Brown	Red			"	Genuine olive oil.		
4	28526	1-4703	0-915	103-9	"	"			"	"		
5	28527	1-4739	0-923	103-9	Brown	Red			Salad oil	Is cotton seed oil.		
6	28528	1-4702	0-915	111-6	"	"			Olive oil	Genuine olive oil.		
7	28529	1-4705	0-917	79-9	Brown	Red			Salad oil	"		
8	28530	1-4732	0-920	79-9	"	"			Olive oil	Is cotton seed oil.		
9	28531	1-4705	0-916	79-9	Yellowish green	Red			"	Genuine olive oil.		
10	28532	1-4709	0-913	79-6	Green	No colour			"	"		
1	28413	1-4705	0-913	79-6	Green	No colour			"	"		
2	28416	1-4700	0-916	108-5	"	"			"	"		
3	28419	1-4737	0-921	108-5	Brown	Red			Salad oil	Cotton seed oil.		
4	28423	1-4704	0-917	108-5	"	"			Olive oil	Genuine olive oil.		
5	28426	1-4705	0-916	6	"	"			"	"		
6	28431	1-4710	0-917	88-9	Green	Nearly colourless			"	"		
7	28434	1-4708	0-915	88-9	"	"			"	"		
8	28440	1-4740	0-925	107-0	Brown	Red			"	Adulterated.		
9	28444	1-4741	0-923	108-8	"	"			"	"		
10	28447	1-4711	0-915	88-9	Green	Colourless			"	Genuine olive oil.		
1	22401	1-4706	0-913	79-9	Green	No colour			"	"		
2	22395	1-4700	0-914	79-9	"	"			"	"		
3	22396	1-4689	0-914	79-9	"	"			"	"		

St. Hyacinthe

Montreal

Kingston

Toronto

London

TABLE II.—INSPECTION OF OLIVE OIL (SALAD OIL)—Concluded.

District.	Serial Number.	Collector's Number	RESULTS OF ANALYSIS.							Opinion.	
			Refractive Index at 15.5°C.	Specific Gravity at 15.5°C.	Iodine Number	Nitric Acid Colour Test.	Halpain's Colour Test.	Name under which Sold.			
London—(Cm.)	4	22414	1.4704	0.916					Olive oil.	Genuine olive oil.	
	5	22416	1.4708	0.916					"	"	
	6	22580	1.4695	0.917					"	"	
	7	22383	1.4703	0.916					"	"	
	8	22374	1.4705	0.917					"	"	
	9	22385	1.4704	0.918					"	"	
	10	22582	1.4709	0.917					"	"	
	Manitoba	1	25574	1.4696	0.910	79.6	Green.	No colour.		"	"
		2	25575	1.4738	0.923	105.0	Brown.	Pink.		"	Cotton seed oil; adulterated.
		3	25977	1.4739	0.923	106.0	"	"		"	Adulterated.
4		25578	1.4697	0.912	78.7	Green.	No colour.		"	Genuine olive oil.	
5		25579	1.4739	0.923	105.2	Brown.	Pink.		Salad oil.	Is cotton seed oil.	
6		25580	1.4706	0.916	79.2	Green.	No colour.		Olive oil.	Genuine olive oil.	
7		25581	1.4731	0.919	106.4	Brown.	Red.		Salad oil.	Is cotton seed oil.	
8		25582	1.4704	0.916	76.5	Green.	No colour.		Olive oil.	Genuine olive oil.	
9		25593	1.4701	0.913	81.5	"	"		"	"	
10		25594	1.4695	0.913	79.6	"	"		"	"	
Calgary	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
British Columbia	1	26386	1.4738	0.925	107.9	Brown.	Red.		Olive oil.	Adulterated.	
	2	26387	1.4700	0.916					"	Genuine olive oil.	
	3	26388	1.4740	0.924	110.7	Brown.	Red.		Salad oil.	Is cotton seed oil.	
	4	26389	1.4699	0.915					Olive oil.	Genuine olive oil.	
	5	26007	1.4738	0.922	107.9	Brown.	Red.		"	Adulterated.	
	6	26011	1.4691	0.913					"	Genuine olive oil.	
	7	26972	1.4700	0.915					"	"	
	8	26381	1.4739	0.920	116.4	Brown.	Red.		"	Adulterated.	
	9	26382	1.4740	0.924	111.3	"	"		Lucca (olive) oil.	"	
	10	26996	1.4704	0.915					Olive oil.	Genuine olive oil.	

(No samples have been received from this district.)

