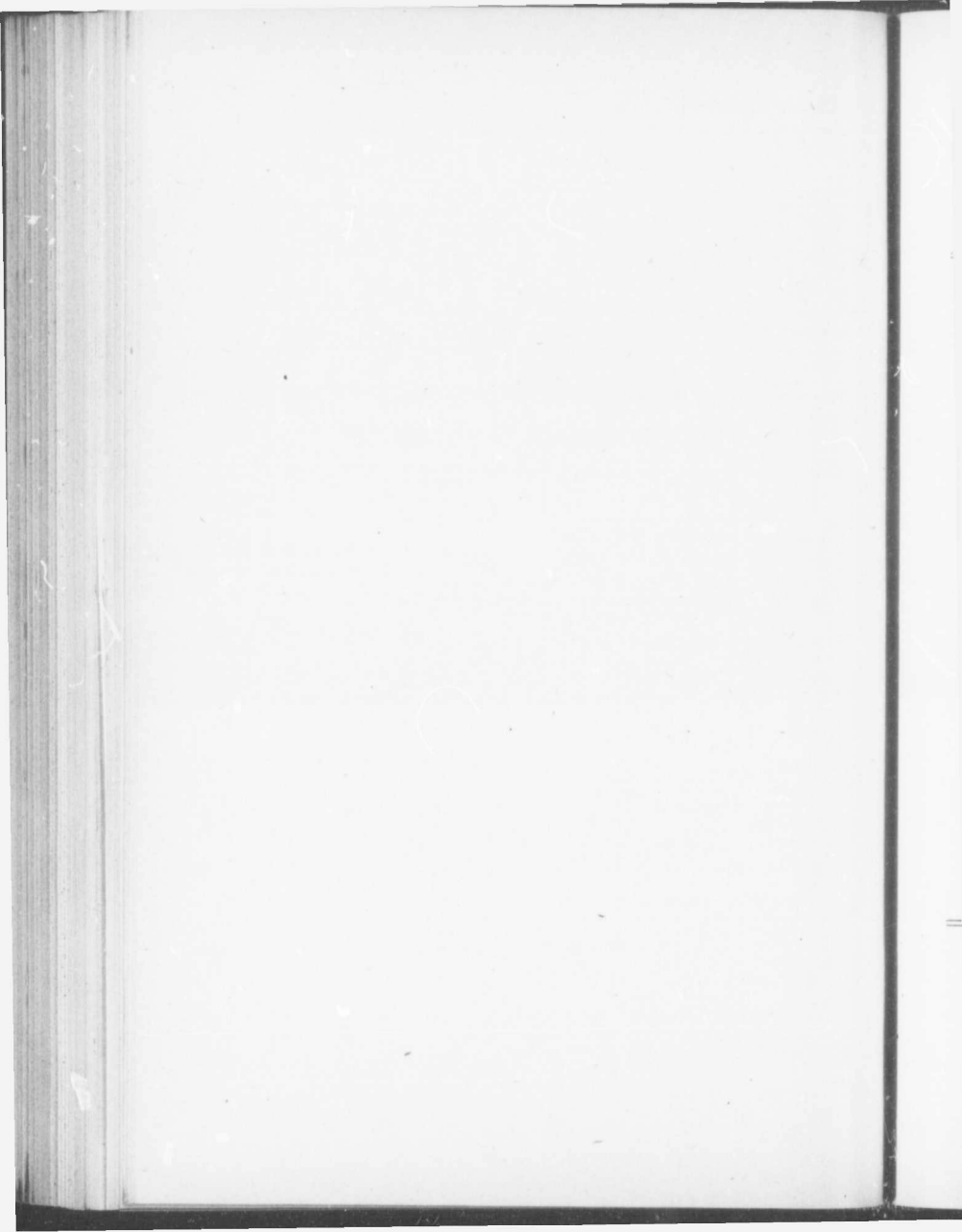




LABORATORY
OF THE
INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 396

SALAD OIL

NOTES AND COMMENTS.

Under this heading, as occasion arises, the Bulletins issued by this Department will contain, as an appendix, such comment as may seem necessary or advisable upon matters relating to the work of the Department in connection with the administration of the Adulteration Act, the Fertilizers Act, the Feeding Stuffs Act or the Proprietary Medicines Act.

It frequently happens that correspondents ask information regarding the above Acts, of such nature that the matter in question possesses general interest, and comment upon it would prove acceptable and useful to others than the immediate questioner. In such cases the reply may find a place in these columns. For convenience of reference these notes will be numbered in series.

A. MCGILL,

Chief Analyst.

J.

the

lea

of

wei

ext

val

or

whi

and

oil

flav

enti

far

larg

subs

littl

left

tallc

with

syru

a m

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

BULLETIN No. 396

SALAD OIL

OTTAWA, March 11, 1918.

J. U. VINCENT, Esq., K.C., B.A., L.Ph.,
Deputy Minister of Inland Revenue.

SIR,—I beg to hand you a report upon 149 samples purchased as Salad Oil during the months August to November 1917.

Olive Oil has been employed as a food from very early times; and as far as I can learn, was the only vegetable oil used in English speaking countries, as a component of Salads, until comparatively recent years. In consequence of this fact, purchasers of Salad Oil, unless specially instructed by a label, or otherwise, assumed that they were getting Olive Oil.

Many other vegetable oils have been found to be eligible, for food purposes; and extended investigation has proved them to be, both as regards digestibility and energy value, practically equal to Olive Oil. Most of these, however, possess in their natural, or untreated condition more or less distinctive and characteristic flavours, which, while they may not be in the strict sense, objectionable, are only tolerated by usage, and on acquired taste, and are sufficiently obvious to make the substitution of these oils for Olive Oil, impracticable.

By skilful treatment, however, it has been found possible to remove these specific flavours, and thus to produce a bland oil, capable of being mixed with olive oil, or entirely replacing olive oil, without detection, except by discriminating palates. So far as Canada and the United States are concerned, Cotton Seed Oil has been very largely employed in this way, and of course, has been regarded as an adulterant, when substituted for Olive Oil without declaration of its presence.

In view of the natural desire of the manufacturer to find a market for new, and little known materials, it is perhaps not cause for wonder that the public should be left to find out for itself the facts of the case. Thus, substitutes for lard, made from tallow and various oils, were for a long time offered as Lard; mixtures of cane sugar with highly flavoured specimens of maple sugar, were offered as Maple Sugar; glucose syrup (corn syrup) posed as Honey; Milk, from which the fat had been removed by a machine, instead of by hand, as in the older fashion, is offered as separated instead

of skimmed milk, etc. The list might be made a very long one. In none of these cases was any injury done to the health of the consumer; and in the long run, the truth of the matter was discovered and made public. It is, however, very regrettable, that any good food material should seek to pose for other than what it really is.

A great number of vegetable oils are capable of being refined in such a way as to become available for use as Salad Oils; and the following list was submitted to the Association of Official Agricultural Chemists, in Washington, D.C., in November, 1916.

Fats and Oils.

Edible fats and edible oils are such glycerids of fatty acids as are recognized to be wholesome foods. They are dry and sweet in flavor and odor.

Cacao butter, coca butter is the edible fat obtained from sound cacao beans either before or after roasting.

Coconut oil, copra oil is the edible oil obtained from the kernels of the coconut.

Cochin oil is coconut oil prepared in Cochin (Malabar).

Ceylon oil, is coconut oil prepared in Ceylon.

Corn oil, maize oil is the edible oil obtained from the germ of Indian corn (maize)

(*Zea mays* L.)

Cotton seed oil is the edible oil obtained from the seed of the cotton plant (*Gossypium herbaceum*, L. or other species of *Gossypium*).

Olive Oil, sweet oil is the edible oil obtained from the sound, mature fruit of the olive tree (*Olea europaea* L.).

Palm kernel oil is the edible oil obtained from the kernels of the fruit of the palm tree (*Eloeis guineensis* L.).

Peanut oil, arachis oil, earthnut oil is the edible oil obtained from the peanut (*Arachis hypogaea* L.).

Poppy seed oil is the edible oil obtained from the seeds of the poppy (*Papaver somniferum* L.).

Rape seed oil, colza oil is the edible oil obtained from the seeds of the rape plant (*Brassica campestris*).

Soy bean oil, soja oil is the soluble oil obtained from the seeds of the soy bean plant (*Dolichos soja* L., *Soja*, *Hispida*, *Sieb et Zucc.*, *Soga japonica*, *Savilk*, *Blycine hispida*, *Maxim*, *Glycine Soja* L.).

Sesame oil, gingili oil, teel oil, benne oil is the edible oil obtained from the seed of the sesame plant (*Sesamum indicum*, *De Candolle* L., *Radiatum* *Schum* and *Thonn*).

Sunflower oil is the edible oil obtained from the seeds of the sunflower. (*Helianthus annuus* L.).

In order, however, to secure proper protection to the producer as well as to the consumer, it is necessary to require that when any of the oils named seek a market as *Salad oils*, the specific name of the oil should appear on the label. Our own standards for edible vegetable oils (published as *Circ. G. 1002*) require that when Cotton Seed Oil is sold as Salad Oil, the fact that the article is cotton seed oil must be declared on the label. The regulation referred to should be amended to include available oils other than cotton seed oil. At the time these standards were promulgated, Cotton Seed oil was the only substitute for Olive Oil found on our markets. One sample of Peanut oil is included in the present collection. (No. 80420).

While the above named vegetable oils are recognized as possessing a food value practically equivalent to that of Olive Oil, and consequently as permissible substitutes for olive oil when properly described on the label, it is quite otherwise with mineral oils. These are indigestible and have no food value whatever. Certain liquid paraffins, carefully purified, possess value as drugs, and *Paraffinum Liquidum* is recognized by the Pharmacopoeia. But as foods they are without any value.

Thirty-one (31) samples of the present collection while sold as Cotton Seed Oil, are found to contain paraffin (mineral) oils in amounts varying from 3 to above 30 per cent.

Less than 10 per cent. mineral oil.	4 samples.
Between 10 and 20 per cent. mineral oil.	7 "
Between 20 and 30 per cent. mineral oil.	13 "
More than 30 p.c. mineral oil.	7 "

Total. 31 "

These samples are sold without any declaration of the presence of mineral oil, and must be regarded as adulterated under the Act; which defines food as adulterated "if any substance has been mixed with it, so as to reduce or lower or injuriously affect its quality or strength" Section 3, (a).

The results of this examination may be thus summarized:—

SALAD OIL.

Samples found to be olive oil.	86 genuine.
" " cotton seed oil, and so named on label.	25 "
Samples found to be cotton seed oil but not declared as such.	1 adulterated.
Samples found to be cotton seed oil but sold as olive oil.	1 "
Samples found to be cotton seed oil and olive oil mixed, declared.	1 genuine.
Samples found to be cotton seed oil with added mineral oil.	31 adulterated.
Samples found to be peanut oil.	1 pass.
Samples collected by mistake.	3

Total. 149

I would respectfully suggest publication of this report as Bulletin No. 396.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

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 NOVA SCOTIA—

1917.							
Oct. 17	Salad Oil	76736	Wentzells, Ltd., N.S. Halifax,	3 bts.	60	Libby, McNeil & Libby, Toronto, Ont.	Mfrs.
" 30	"	76737	R. N. McDonald, N.S. Halifax,	3 "	75	Biet Fils, Aine, France.	" agent.
" 30	"	76738	T. F. Courtney, N.S. Halifax,	3 "	60	Crosse & Blackwell, London, Eng.	"

DISTRICT OF NEW BRUNSWICK—

Sept. 6	Salad Oil	78111	W. A. Simonds, St. John, N.B.	3 bts.	1.05	Crosse & Blackwell, London, Eng.	.....
" 6	"	78112	Dearborn & Co., St. John, N.B.	3 "	44	E. Loubon, Nice.....	.....
" 7	"	78113	Geo. E. Barbour Co., St. John, N.B.	3 "	90	A. Gaillard Fils, Marseilles, France.	.....
" 7	"	78114	Puddington, Wetmore, Morison, Ltd., St. John, N.B.	3 "	94	Vendors .....	.....
" 1	"	78115	Cheyne & Co., St. John, N.B.	3 "	75	Holbrook & Co., London, Eng.	.....
" 18	"	7811	P. Nase & Son, St. John, N.B.	3 "	60	The F. F. Dalley Co., Hamilton, Ont.	.....
Nov. 6	"	78117	A. E. Eady, Fredericton, N.B.	3 "	75	Libby, McNeil & Libby, Toronto, Ont.	.....
.....	"	78118	The Baird Co., Ltd., Woodstock, N.B.	3 "	75	Vendors .....	.....
Nov. 13	"	78119	Inches & Grimmer, St. Stephen, N.B.	3 "	75	Niells O. O. Co., New York.	.....
" 13	"	78120	P. F. McKenna, St. Stephen, N.B.	3 "	1.05	E. and A. Jonas, Brussels.	.....

DISTRICT OF QUEBEC CITY—

Aug. 24	Huile de Salade.	71275	A. L. F. Lamontagne, Rue Richardson, Quebec.	3 bts.	30	E. Loubon et Cie.....	Jos. Amyotte et Fils.
" 24	"	71276	Bilodeau et Fils, Joseph, Quebec.	3 "	90	H. J. Heinz Co., Pittsburg, Pa.	J. B. Renaud et Cie.
" 24	"	71277	" " " "	3 "	75	Libby, McNeil & Libby.	J. B. Renaud...
" 24	"	71278	" " " "	3 "	75	E. Loubon	G. Gingras
" 30	"	71290	La. Jobin, 156 Rue Dorchester, Quebec	3 "	30	"	Unknown
" 28	"	71280	J. Art. Bedard, 728 Rue St. Valier, Quebec.	3 "	36	"	Turotte et Frère Co.
" 28	"	71281	Pharmacie National, St. Valier, Quebec.	3 "	45	"	Dr. Ed. Morin et Cie.
" 29	"	71282	O. Bacon, 28 Rue Hermine, Quebec.	3 "	30	Unknown	W. Brunet et Cie.
" 30	"	71283	Cantin et Frère, Joseph, Quebec.	3 "	36	E. Loubon et Cie.....	Turotte et Frère
" 30	"	71284	J. D. Marier, 136 Rue Dorchester, Quebec.	3 "	30	Unknown	Unknown

SALAD OIL.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.							Remarks and Opinion of the Chief Analyst.
	Sp. gr. at 15° C.	Labelled.	Halphen Test for Cotton-seed Oil.	Refractive Index at 15° C.	Saponification No.	Unsaponifiable Matter.	Refractive Index of Unsaponifiable Matter.	

R. J. WAUGH, INSPECTOR.

Labelled Olive Oil.	0.9171	Olive.	None.	1.4701	.....	p. c.	.....	76736	Olive oil. Genuine.
" "	0.9168	"	"	1.4700	.....	.....	.....	76737	" "
Labelled Luca Oil.	0.9166	"	"	1.4701	.....	.....	.....	76738	" "

JNO. C. FERGUSON, INSPECTOR.

Luca Oil.	0.9172	Luca.	None.	1.4702	.....	.....	.....	78111	Olive oil. Genuine.
.....	0.9167	Loubon salad.	"	1.4703	.....	.....	.....	78112	" "
.....	0.9168	Olive.	"	1.4704	.....	.....	.....	78113	" "
.....	0.9176	"	"	1.4706	.....	.....	.....	78114	" "
.....	0.9170	"	"	1.4702	.....	.....	.....	78115	" "
Messina.....	0.9173	"	"	1.4704	.....	.....	.....	78116	" "
Imported.....	0.9168	"	"	1.4704	.....	.....	.....	78117	" "
O. O. Purity....	0.9163	Luca.	"	1.4705	.....	.....	.....	78118	" "
White Label O. O.	0.9168	Olive.	"	1.4703	.....	.....	.....	78119	" "
O. O.	0.9173	"	"	1.4705	.....	.....	.....	78120	" "

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

.....	0.9090	Salad cotton.	Present.	1.4748	156.3	15.30	1.4818	71275	Cotton seed oil with mineral oil. Adulterated.
.....	0.9169	Olive.	None.	1.4706	.....	.....	.....	71276	Olive oil. Genuine.
.....	0.9166	"	"	1.4704	.....	.....	.....	71277	" "
.....	0.9002	Salad cotton.	Present.	1.4741	134.5	29.44	1.4751	71278	Cotton seed oil with mineral oil. Adulterated.
.....	0.9233	"	"	1.4737	.....	.....	.....	71290	Cotton seed oil. Genuine.
.....	0.9044	"	"	1.4739	143.8	25.30	1.4748	71290	Cotton seed oil with mineral oil. Adulterated.
.....	0.9233	"	"	1.4737	.....	.....	.....	71281	Cotton seed oil. Genuine.
.....	0.9238	Salad	Present.	1.4741	.....	.....	.....	71282	" "
.....	0.9078	Salad cotton.	"	1.4772	142.7	21.85	1.4844	71283	Cotton seed oil with mineral oil. Adulterated.
.....	0.9074	"	"	1.4753	146.8	18.83	1.4821	71284	" "

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. (If not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF QUEBEC PROVINCE—

1917.								
Aug. 27	Huile Salade	6464	Eugene Bolduc, St. Valier, P.Q.	3	60	Turotte & Frere.		
" 28	" "	6471	Geo. Roy, St. Michel, P.Q.	3	36	Turotte & Cie		
" 28	" "	6474	Louis Corriveau, St. Michel, P.Q.	3	30	Turotte & Cie, Quebec.		
" 28	" "	6476	Naz. Morency, St. Charles, P.Q.	3	30	Naz. Turotte & Cie, Quebec.		
" 28	" "	6478	J. H. Couture, St. Charles, P.Q.	3	45	E. Loubon.		
" 29	" "	6481	Leon Godbout, St. Nere.	3	30	"		
" 31	" "	6490	Cleo Beaudoin, Armagh, P.Q.	3	30	"		
" 22	Huile à Salade	5661	H. Cousineau, St. Jerome, P.Q.	3	45	"		
" 22	" "	5663	Chas. E. Lallamne, St. Jerome, P.Q.	3	30	"		
Sept. 10	" "	5672	A. Lavigne, St. Scholastique, P.Q.	3	120	Barton & Guester		
Aug. 22	Salad Oil.	7396	J. N. R. L'Esperance, Montmagny, P.Q.	3	180	Patenaude Carignan Ltd., Montreal.		
" 25	" "	7804	J. Bpte. Poirier, St. Thomas, P.Q.	3	36	Roux and Pettigrew Co., Quebec.		
" 26	Huile à Salade	7807	A. Letourneau, St. Pierre, P.Q.	3	45	Turotte & Frere, Quebec.		
" 29	" "	7816	Mag. Lemieux, Montmagny, P.Q.	3	45	Dr. Ed. Morin, Quebec.		
" 30	" "	7822	J. A. Corriveau, Montmagny, P.Q.	3	30	E. Loubon, Nice		
" 30	" "	7826	Ad. Caron, Montmagny, P.Q.	3	36	Standard Imports Ltd., Montreal.		
" 20	Huile de Salade	7722	Jos. Cote, Trois Pistoles, P.Q.	3	150	H. J. Heinz, Pittsburg, Pa.		
" 22	" "	7738	Leon Caron, Amqui, P.Q.	3	30	E. Loubon, Nice		
" 23	" "	7741	A. Voyer, Mont Joli, P.Q.	3	105	H. J. Heinz, Pittsburg, Pa.		
" 24	" "	7753	J. Desrosiers, Rimouski.	3	1.20	Feyret et Perret, Bordeaux.		
" 26	Huile à Coton.	7760	Gagne et Belzile, St. Fabien.	3	30	Standard Imports Ltd., Montreal.		

SALAD OIL.

Results of Analysis.

Sp. Gr. at 15.5° C.	Labelled.	Halphen Test for Cottonseed Oil.	Refractive Index at 15.5° C.	Refractive Index at 25° C.	Nitric Acid Test.	Bellier's Test Arachidic Ac.	Hanus Iodine No.	Saponification No.	Unsapoifiable Matter.	Refractive Index of Unsapifiable Matter.	No. of Sample.	Remarks and Opinion of the Chief Analyst.

O. BROUET, N. CADIEUX, T. GENDREAU, J. H. RIOUX, TEMPORARY INSPECTORS.

					p c		
Cat- ton- seed.	Pos- itive.	1-4728	Brown		9.71-4862	6.66	Cottonseed Oil, with mineral oil. Adulter.
"	"	1-4707	"		11.01-4860	6.671.	"
"	"	1-4707	"		31.71-4731	6.674	"
"	"	1-4713	"		3.01-4863	6.676	"
"	"	1-4705	"		25.11-4778	6.678	"
"	"	1-4727	"		11.61-4874	6.681	"
"	"	1-4717	"		27.51-4791	6.690	"
"	"	1-4738	"		7.71-4856	6.691	"
"	"	1-4723	"		9.11-4862	6.693	"
Olive	Neg- ative.	1-4710	Green	Neg- ative.	84.8		5672 Olive Oil. Genuine.
"	"	1-4707	"	"	84.5		7396 "
Cat- ton- seed.	Pos- itive.	1-4714	Brown		130	29.7	7391 Cottonseed Oil, with mineral oil. Adulter.
"	"	1-4714	"		132	22.0	7397 "
"	"	1-4700	"		194	None	7310 Cottonseed Oil. Genuine.
"	"	1-4702	"		192	"	7322 "
"	"	1-4702	"		198	"	7326 "
Olive	Neg- ative.	1-4701	Green	Neg- ative.	85.7		7725 Olive Oil. Genuine.
Cat- ton- seed.	Pos- itive.	1-4728	Brown		157	19.5	7738 Cottonseed Oil, with mineral oil. Adulter.
"	"	1-4702	Green	Neg- ative.	84.9		7741 Olive Oil. Genuine.
Olive	Neg- ative.	1-4702	Green	Neg- ative.	82.9		7755 Olive oil. Genuine.
Cat- ton- seed.	Pos- itive.	1-4717	Brown		191	None	7760 Cotton seed oil. Genuine.

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.	Units.	Manufacturer.	Furnisher.	

DISTRICT OF THREE RIVERS—

1917.								
Aug. 28	Huile à Coton	7543	Ernest Asselin, St. 3 bots. Félix de Valois.	30	E. Loubon, Cie.	Chevalier & Pouliot, Joliette.		
" 28	" "	7547	George Dufresne, St. 3 Félix de Valois.	30	" "	" "		
Sept. 3	" "	7553	L. Z. Magnan, Joli-ette.	30	Chausse & Cie, Montreal.			
" 3	" "	7555	Wm. Perrault, Joli-ette.	30	" "	" "		
" 3	Huile d'Olive à Salade.	7556	" " "	1 50	H. J. Heinz, Pittsburg, Pa.			
" 3	Huile à Salade Coton.	7558	Alexis Dufresne, Joliette.	30	Chausse & Cie, Montreal.			
" 3	Huile d'Olive à Salade.	7559	Emile Dufort, Joli-ette.	90	H. J. Heinz, Pittsburg, Pa.			
" 4	Huile à Salade	7561	Joachim Robert, St. Gabriel Brandon.	30	E. Loubon, Née			
" 4	Coton...	7563	Remi Beausoleil, St. Gabriel Brandon.	30	" "			
" 4	" "	7564	J. H. Longpre, St. Gabriel Brandon.	30	Hervey Chem. Co., St. Basile, Fortneuf.			

DISTRICT OF EASTERN TOWNSHIPS—

Aug. 21	Huile Olive.	7622	J. H. Bourdon, Asbestos.	60	" "	L. Chaput, Montreal.		
" 21	Huile d'Olive.	7624	Denault Freres, Asbestos.	1 60	Unknown.			
" 21	Huile Olive.	7626	F. Normand Co., Asbestos.	90	Harris, Peterboro, U.S.			
" 22	" "	7627	N. F. Lamarre, Asbestos.	90	H. J. Heinz,			
" 22	" "	7629	F. Elias, Asbestos.	75	G. T. Armstrong, Sherbrooke.			
" 23	" "	7631	P. J. Gerard, Richmond, P.Q.	1 05	Henry, Hamilton, Ont.			
" 23	" "	7633	J. Bedard Fils, Richmond, P.Q.	90	M. E. Armstrong, Ont.			
" 23	" "	7634	Pape Freres, Richmond, P.Q.	75	Libby, McNeil & Libby, Toronto.			
" 23	" "	7635	J. A. Hudon, Richmond, P.Q.	90	Heinz.			
" 23	" "	7637	E. J. Pearson, Richmond, P.Q.	90	" "			

SALAD OIL.

Results of Analysis.											Remarks and Opinion of the Chief Analyst.
Sp. Gr. at 15.5°C.	Labelled.	Halphen Test for Cottonseed Oil.	Refractive Index at 15.5°C.	Refractive Index at 25°C.	Nitric Acid Test.	Bellier's Test Arachidic Ac.	Hanus Iodine No.	Saponification No.	Unsaturation Matter.	Refractive Index of Unsaturation Matter.	

DR. V. P. LAVALLEE, INSPECTOR.

p. c.											Remarks and Opinion of the Chief Analyst.
.....	Cotton-seed.	Positive.	.....	1.4740	Brown	.....	.....	.....	19.7	1.4820	
.....	"	"	.....	1.4711	"	.....	.....	112	43.6	.....	7547 Cotton seed oil with mineral oil. Adulterated.
.....	"	"	.....	1.4720	"	.....	.....	25.1	1.4788	7553	" " "
.....	"	"	.....	1.4713	"	.....	.....	138	28.1	1.4756	7555 " " "
.....	Olive.	Negative.	1.4706	.....	Green	Negative.	80.7	.....	.....	.....	7556 Olive oil. Genuine.
.....	Cotton-seed.	Positive.	.....	1.4725	Brown	.....	.....	.....	27.0	1.4791	7558 Cotton seed oil with mineral oil. Adulterated.
.....	Olive.	Negative.	1.4708	.....	Green	Negative.	79.7	.....	.....	.....	7559 Olive oil. Genuine.
.....	Cotton-seed.	Positive.	.....	1.4713	Brown	.....	.....	.....	29.8	1.4791	7561 Cotton seed oil with mineral oil. Adulterated.
.....	"	"	.....	1.4702	"	.....	.....	134	31.3	.....	7563 " " "
.....	"	"	.....	1.4713	"	.....	.....	196	None.	.....	7564 Cotton seed oil. Genuine.

E. BLONDIN, TEMPORARY INSPECTOR.

.....	Olive.	Negative.	1.4704	.....	Green	Negative.	86.6	.....	.....	.....	7622 Olive oil. Genuine.
.....	"	"	1.4710	.....	"	"	85.4	.....	.....	.....	7624 " "
.....	"	"	1.4710	.....	"	"	85.6	.....	.....	.....	7626 " "
.....	"	"	1.4710	.....	"	"	85.5	.....	.....	.....	7627 " "
.....	"	"	1.4708	.....	"	"	85.0	.....	.....	.....	7629 " "
.....	"	"	1.4710	.....	"	"	87.9	.....	.....	.....	7631 " "
.....	"	"	1.4708	.....	"	"	85.8	.....	.....	.....	7633 " "
.....	"	"	1.4711	.....	"	"	86.3	.....	.....	.....	7634 " "
.....	"	"	1.4714	.....	"	"	86.0	.....	.....	.....	7635 " "
.....	"	"	1.4712	.....	"	"	87.2	.....	.....	.....	7637 " "

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.	Manufacturer.	Furnisher.	

DISTRICT OF MONTREAL—

1917.								
Aug. 22	Salad Oil.	78051	E. Mireault, 33, 18th Ave., Lachine.	3 bots.	30	.....	.....	Huile de Coton stencilled on label.
" 29	"	78052	M. Caplin, 221 Colonial Ave., Montreal.	3 "	29	.....	.....	Cotton Seed Oil printed on label.
" 29	"	78053	J. A. Dagonais, 620 Berri St., Montreal.	3 "	30	.....	.....	Cotton in small type on label.
" 29	"	78054	E. Choquette, 391 Roy St., Montreal.	3 "	35	.....	.....	Huile de Coton stencilled on label.
" 27	"	78055	M. Goldberg, 46 Curbert St., Montreal.	3 "	60	.....	.....	Cotton Seed Oil printed on label.
Sept. 12	"	78056	A. Kouri, Bonsecours St., Montreal.	3 tins.	1.65	Vendor.....	.....	Refined Cotton Seed Oil printed on label.

DISTRICT OF VALLEYFIELD—

Sept. 5	Salad Oil.	78051	A. Massey, St. Johns, P.Q.	3 bots.	50	.....	.....	Huile de Coton stencilled on label.
" 5	"	78052	W. R. Simpson, St. Johns, P.Q.	3 "	30	.....	.....	Cotton printed on label.
" 6	"	78053	J. Bourgeault, St. Lambert.	3 "	30	.....	.....	Huile de Coton poorly stencilled on label.
" 19	"	78054	A. Brien, Chambly Basin.	3 "	45	Northup, Lyman Co.	.....	Labelled Olive Oil and Cottonseed Oil.
" 28	"	78055	John Boyle, Alexandria, Ont.	3 "	45	.....	.....	Huile de Coton badly stencilled on label.

DISTRICT OF OTTAWA—

Sept. 5	Salad Oil.	80420	W. West, Almonte.	3 bots.	30	The Wm. Davies Co., Ltd., Toronto.	.....	.....
" 5	"	80421	" " "	3 "	30	.....	J. H. Conn, Almonte.	Labelled Huile d'olive à Salade Coton.
" 8	"	80425	Kelly & Bullock, Gananoque.	3 "	30	E. Loubon, Nicolet.	.....	.....

SALAD OIL.

Results of Analysis.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Sp. Gr. at 15.5° C.	Labelled,	Hallpen Test for Cottonseed Oil.	Refractive Index at 15.5° C.	Refractive Index at 25° C.	Nitric Acid Test.	Bellier's Test Arachidic Ac.	Hanus Iodine No.	Saponification No.	Unsaturation Matter.	Refractive Index of Unsaturation Matter.		

J. J. COSTIGAN, INSPECTOR.

								p.c.				
.....	Cotton-seed.	Positive.	.....	1.4715	Brown	.....	.....	133	31.8	.....	78951	Cotton seed oil with mineral oil. Adulterated.
.....	"	"	.....	1.4706	"	.....	.....	.....	.....	.....	78952	Cotton seed oil. Genuine.
.....	"	"	.....	1.4710	"	.....	.....	94	51.8	.....	78953	Cotton seed oil with mineral oil. Adulterated.
.....	"	"	.....	1.4708	"	.....	.....	139	28.7	.....	78954	"
.....	"	"	.....	1.4715	"	.....	.....	.....	.....	.....	78955	Cotton seed oil. Genuine.
.....	"	"	.....	1.4721	"	.....	.....	.....	.....	.....	78956	"

J. J. COSTIGAN, ACTING INSPECTOR.

.....	Cotton-seed.	Positive.	.....	1.4721	Brown	.....	.....	170	12.9	.....	78851	Cotton seed oil with mineral oil. Adulterated.
.....	"	"	.....	1.4706	"	.....	.....	120	39.4	.....	78852	"
.....	"	"	.....	1.4711	"	.....	.....	130	33.3	.....	78855	"
.....	Olive & cotton-seed.	"	1.4740	1.4703	"	.....	109.0	.....	.....	.....	78854	Cotton seed oil and olive oil. Genuine.
.....	Cotton-seed.	"	.....	1.4721	"	.....	.....	137	29.8	.....	78855	Cotton seed oil with mineral oil. Adulterated.

J. A. RICKEY, INSPECTOR.

.....	Salad oil.	Negative.	1.4713	.....	Red brown	Positive.	86.7	.....	.....	.....	80420	Peanut oil. Should be labelled to indicate this fact. Pass.
.....	Huile douce à salad	Positive.	.....	1.4708	Brown	.....	.....	.....	.....	.....	80421	Cotton seed oil. Genuine.
.....	Cotton Salad Oil.	"	1.4748	1.4712	"	.....	108.5	193	.....	.....	80425	Cotton seed oil. Not declared. Adulterated.

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.	Manufacturer.	Furnisher.	

DISTRICT OF KINGSTON—

1917.								
Aug. 29	Salad Oil.	79911	W. E. Austin, Kingston.	3 bts.	75	Drug Trading Co., Toronto.		
" 20	"	79912	A. G. Williams, Kingston.	3 "	1.80	N. C. Polson Co., Kingston.		
" 20	"	79913	J. B. McLeod, Kingston.	3 "	1.50	Nat. Drug Co., Toronto.		
" 20	"	79914	W. H. Medley, Kingston.	3 "	75	E. G. West & Co., Toronto.		
" 21	"	79915	T. B. Wallace, Nanaimo.	3 "	1.05	Nat. Drug Co., Toronto.		
" 21	"	79916	F. L. Hooper, Nanaimo.	3 "	1.50	N. C. Polson & Co., Kingston.		
" 21	"	79917	W. H. Lattimer, Belleville.	3 "	1.05	J. Sloan & Co., Belleville.		
" 21	"	79918	Ostroms Drug Store, Belleville.	3 "	75	Drug Trading Co., Toronto.		
" 21	"	79919	A. J. Romano, Cobourg.	3 "	1.05	Chas. Ciero Toronto.		
" 21	"	79920	C. M. Moncur, Cobourg.	3 "		Nat. Drug Co., Toronto.		

DISTRICT OF TORONTO—

Aug. 25	Salad Oil.	80804	J. J. Keating, 109 Arthur St., Toronto.	3 bts.	51	The Carter Drug Co., Toronto.		Labelled Olive de Oliva Para.
" 27	"	80805	Lynderont Groceries, 43 Ossington Ave., Toronto.	3 "	30	Midland Bros., Toronto.		Pure Italian Olive Oil. Ru Re Puerta Brand.
" 27	"	80806	R. White, 135 Spadina Ave., Toronto.	3 "	75	B. Bassi, 98 Church St., Toronto, O.		Pure Olive Oil.
" 28	"	80807	Wm. Rowntree, 1705 Dundas St. West Toronto.	3 "	75	E. Lazenby & Son Ltd., London, Eng.		Finest Lucaea Oil.
" 28	"	80808	J. M. Evans, 1743 Dundas St. West Toronto.	3 "	75	Libby McNeil & Libby, Toronto.		Pure Imported Olive Oil.

SALAD OIL.

Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
Sps. Gr. at 15.5° C.	Labelled.	Hallphen Test for Cottonseed Oil.	Refractive Index at 15.5° C.	Refractive Index at 25° C.	Nitric Acid Test.	Ballier's Test Arachide Ac.	Hanus Iodine No.	Saponification No.	Unsaponifiable Matter.		

JAS. HOGAN, INSPECTOR.

.....	Olive	Neg- ative.	1.4711	.....	Green	Neg- ative.	87.9	.....	.....	79911	Olive oil. Genuine.
.....	"	"	1.4707	.....	"	"	84.8	.....	.....	79912	" " "
.....	"	"	1.4713	.....	"	"	87.5	.....	.....	79913	" " "
.....	"	"	1.4714	.....	"	"	86.3	.....	.....	79914	" " "
.....	"	"	1.4706	.....	"	"	84.2	.....	.....	79915	" " "
.....	"	"	1.4713	.....	"	"	88.1	.....	.....	79916	" " "
.....	Olive	"	1.4706	.....	"	"	85.0	.....	.....	79917	" " "
.....	Salad Oil.	"	1.4710	.....	"	"	85.4	.....	.....	79918	" " "
.....	Olive.	"	1.4713	.....	"	"	86.3	.....	.....	79919	" " "
.....	"	"	1.4712	.....	"	"	86.2	.....	.....	79920	" " "

H. J. DAGER, INSPECTOR.

.....	Olive.	Nega- tive.	1.4712	.....	Green	Nega- tive.	86.2	.....	.....	80804	Olive Oil. Genuine.
.....	"	"	1.4702	.....	"	"	84.6	.....	.....	80805	" " "
.....	"	Posi- tive.	1.4740	1.4706	Brown	"	119.7	.....	.....	80806	Cottonseed Oil. Adul- terated, as labelled
.....	"	Nega- tive.	1.4702	.....	Green	"	85.1	.....	.....	80807	Olive Oil. Genuine.
.....	"	"	1.4710	.....	"	"	85.7	.....	.....	80808	" " "

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.	Manufacturer.	Furnisher.	

DISTRICT OF HAMILTON—

1917.								
Sept. 4	Salad Oil.	80901	W. W. Hill, Lucknow	3 bots.	75	Gorman, Eckert Co. London.	Club House. Pure Olive Oil.	
" 4	" "	80903	E. J. Watson, Kincardine.	3 "	75	Unknown "	Pure Huile de Olive. Loyd Brand.	
" 4	" "	80904	Paglio Jackino, York St., Hamilton	179/3	75	" "	Superior Olive Oil.	
" 12	" "	80905	Wm. Carroll, York St., Hamilton	232/3	75	" "	French Olive Oil.	
" 12	" "	80906	M. B. Hibbard, Main St. W., Hamilton.	353/3	75	L. A. Price, Nee & Co., Hamilton.	Pure Lucca Olive Oil.	
" 12	" "	80907	O. W. Robins, Locke St., Hamilton	164/3	75	Unknown "	The Eagle Summit of Olive Oil.	
" 12	" "	80908	S. Saneone, 142 James St. N., Hamilton.	3 "	75	Italia Canadian Importing Co. Montreal.	Pure Lucca Olive Oil.	
" 13	" "	80909	J. J. McQuarrie, King William St., Hamilton.	11/3 cans	90	Pompeian Co., Baltimore.	Pure Olive Oil, Pompeian Brand	
" 13	" "	80910	J. Vanater, 745 Barton St., Hamilton.	3 "	45	F. F. Dalley Co. Ltd., Hamilton.	Finest Sublime Italian Olive Oil.	

DISTRICT OF WINDSOR—

Sept. 4	Salad Oil.	65275	J. D. Stark, Chatham, Ont.	3 bots.	30	Gorman, Eckert Co., London, Ont.	Pure Cottonseed Salad Oil.
" 4	" "	65277	Isaac Johnson, Chatham, Ont.	3 "	1.05	H. Heinz, Pittsburg, Pa.	Heinz Pure Olive Oil.
" 5	" "	65297	Cherney Grocery Co., Windsor, Ont.	3 "	1.05	" "	" "
" 6	" "	65301	House of Nairn, Windsor, Ont.	3 "	75	Gorman, Eckert Co., London, Ont.	Club House Pure Huile de Olive.
" 6	" "	65302	T. Pearce, Windsor, Ont.	3 "	90	Libby, McNeil & Libby, Toronto.	Libby's Pure Imported Olive Oil.
" 11	" "	65317	G. H. Reesor, St. Mary's.	3 "	75	Unknown.	Unknown.
" 12	" "	65324	W. R. Smith, Seaforth.	"	90	A. M. Smith	Pure Lucca Oil.

SALAD OIL.

Results of Analysis.										Remarks and Opinion of the Chief Analyst.
Sp. gr. at 15.5°C.	Labelled.	Halphen Test for Condensed Oil.	Refractive Index at 15.5°C.	Refractive Index at 25°C.	Nitric Acid Test.	Bellier's Test Arachidic Ac.	Hanus Iodine No.	Saponification No.	Unsaturation Matter.	

H. J. DAGER, ACTING INSPECTOR.

.....	Olive.	Nega- tive.	1.4710	.....	Green	Nega- tive.	86.2	.....	.....	80901	Olive Oil. Genuine.
.....	"	"	1.4711	.....	"	"	.....	.....	.....	80903	" "
.....	"	"	1.4706	.....	"	"	85.8	.....	.....	80904	" "
.....	"	"	1.4704	.....	"	"	84.6	.....	.....	80905	" "
.....	"	"	1.4702	.....	"	"	83.8	.....	.....	80906	" "
.....	"	"	1.4708	.....	"	"	84.5	.....	.....	80907	" "
.....	"	"	1.4706	.....	"	"	85.0	.....	.....	80908	" "
.....	"	"	1.4712	.....	"	"	84.7	.....	.....	80909	" "
.....	"	"	1.4710	.....	"	"	84.3	.....	.....	80910	" "

JOHN TALBOT, INSPECTOR.

.....	Cot- ton- seed.	Posi- tive.	.....	1.4716	Brown	.....	.....	.....	.....	65275	Cotton seed oil. Gen- uine.
.....	Olive.	Nega- tive.	1.4710	.....	Green	Nega- tive.	84.8	.....	.....	63277	Olive oil. Genuine.
.....	"	"	1.4705	.....	"	"	87.7	.....	.....	65297	" "
.....	"	"	1.4710	.....	"	"	85.6	.....	.....	65301	" "
.....	"	"	1.4705	.....	"	"	86.5	.....	.....	65302	" "
.....	"	"	1.4708	.....	"	"	84.6	.....	.....	65317	" "
.....	"	"	1.4710	.....	"	"	86.1	.....	.....	65324	" "

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.	Manufacturer.	Furnisher.	

DISTRICT OF NORTHERN ONTARIO—

1917.								
Aug. 23	Salad Oil.	78640	A. J. Carson, Haileybury.	3 bots.	60	Geo. A. Bayle, St. Louis, U.S.A.		
" 24	" "	78641	F. C. Preston Co., Haileybury.	3 "	60	Tildesley Co., Chicago.		

DISTRICT OF MANITOBA—

Aug. 29	Salad Oil.	79543	Rapid City Drug Store, Rapid City, Man.	3 bots.	1.05	Gaillards & Sons, France.		
" 30	" "	79544	B. R. McNaught, Hamiota, Man.	3 "	75	E. G. West & Co., Toronto.		
Sept. 8	" "	79545	W. W. Heming, Swan River, Man.	3 "	90	Lyman Bros., Toronto.		
" 8	" "	79546	Swan River Drug Store, Swan River, Man.	3 "	1.20		Hudson's Bay Co., Winnipeg.	
" 12	" "	79547	Gateway Drug Co., The Pas.	3 "	1.50	Societe Lazaran, Nice, France.		
" 12	" "	79548	Holloway's Drug Store, The Pas.	3 "	1.65	Gillard & fils, Marseilles, France.		
" 12	" "	79549	William Burt, The Pas.	3 "	1.50	Societe Lazaran.		
" 25	" "	79550	Sherbrooke Grocery, Sherbrooke and Preston, Winnipeg.	3 "	1.35	H. J. Heinz, Pittsburg, Pa.		
" 26	" "	79551	Robertson & Co., Main St., Winnipeg.	3 "	1.35	L. Noel & Son, Southwark, London, Eng.		
" 27	" "	79552	J. A. McKeeher, 600 Main St., Winnipeg.	3 "	90	L. A. Price, France.		

DISTRICT OF NORTHERN SASKATCHEWAN—

Aug. 30	Salad Oil.	78524	D. Robinovitch, Prince Albert.	3 bots.	90	Libby McNeil & Libby Toronto		
Sept. 1	" "	78532	Prince Bros. Ltd., Battleford.	3 cans.	1.00	Libby McNeil & Libby Chicago		
" 6	" "	78541	White Grocers, Saskatoon.	3 "	75	E. G. West & Co., Toronto.		
" 27	" "	78563	A. Lindgren, Kam-sack.	3 "	75	Heinz, Toronto.		

SALAD OIL.

Results of Analysis.										Remarks and Opinion of the Chief Analyst.
Sp. Gr. at 15.5° C.	Labelled.	Halphen Test for Cottonseed Oil.	Refractive Index at 15.5° C.	Refractive Index at 25° C.	Nitric Acid Test.	Bellie's Test. Arachidic Ac.	Hanus Iodine No.	Saponification No.	Unsaturation Matter.	

THOS. E. ARMSTRONG, INSPECTOR.

										*78640 Collected by mistake.
										*78641 " "

J. B. COSGROVE, INSPECTOR.

.....	Olive.	1-4707	.....	Straw Yel- low.	.....	.....	.....	.....	.....	79543 Olive oil. Genuine.
.....	" Negative.	1-4706	.....	Faint Brown	.....	.....	.....	.....	.....	79544 " "
.....	"	1-4706	.....	Straw Yel- low.	.....	.....	.....	.....	.....	79545 " "
.....	"	1-4707	.....	"	.....	.....	.....	.....	.....	79546 " "
.....	"	1-4706	.....	"	.....	.....	.....	.....	.....	79547 " "
.....	"	1-4707	.....	"	.....	.....	.....	.....	.....	79548 " "
.....	"	1-4706	.....	"	.....	.....	.....	.....	.....	79549 " "
.....	"	1-4703	.....	"	.....	.....	.....	.....	.....	79550 " "
.....	"	1-4707	.....	"	.....	.....	.....	.....	.....	79551 " "
.....	"	1-4706	.....	"	.....	.....	.....	.....	.....	79552 " "

J. M. DANIS, INSPECTOR.

.....	Olive.	1-4708	.....	Straw yellow	.....	.....	.....	.....	.....	78524 Olive Oil. Genuine.
.....	"	1-4709	.....	Straw colour	.....	.....	.....	.....	.....	78532 " "
.....	"	1-4706	.....	Straw yellow	.....	.....	.....	.....	.....	78541 " "
.....										*78563 Collected by mistake.

*Salad Dressing.

†Mustard Sauce.

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.	Manufacturer.	Furnisher.	

DISTRICT OF ALBERTA—

1917.								
Aug. 20	Salad Oil.	52743	Kerr & Porterfield, Calgary.	3 bots.	75	Crosse & Blackwell, London Eng.		Pure Lucca Oil..
" 20	"	52744	S. G. Freeze, Calgary	3 "	1 05	A. Magnano Co., Ltd. Vancouver.		Napoleon Brand Extra Virgin Oil Olive.
" 23	"	52745	Geo. A. Miller, 619 3rd St. W., Calgary.	3 "	75	Biet Fils, Aine Salon, France.		La Perle Pure Olive Oil.
" 23	"	52746	W. Wood Roberts, 17 Ave. W., Calgary.	3 "	1 05	Plunkett & Savage, Calgary.		Vittucci Brand Virgin Olive Oil.
" 31	"	52747	Producers Outlet, 2120 4th St. W., Calgary	3 "	45	Strohmeier & Arpe Co., New York.		Re Umberto Brand Olive Oil.
" 31	"	52748	L. Draper, 17 Ave. W. Calgary.	3 tins.	1 00	Louis Petrie Co., Calgary		"
" 31	"	56749	John Irwin Co., Calgary.	3 bots.	1 05	Biet Fils, Aine Salon, France.		La Perle Brand Pure Olive Oil.
" 31	"	52750	" "	3 "	1 80	H. J. Heinz Co., Pittsburg, Pa.		Pure Olive Oil..
" 11	"	52751	" "	3 "	1 95	F. Boussargne, Bordeaux France.		Olive Oil. Extra Superfine.
" 31	"	52752	" "	3 tins.	1 95	A. Magnano Co. Seattle, Wash		Napoleon Brand Rivières Olive Oil.

DISTRICT OF ROCKY MOUNTAINS—

Sept. 18	Salad Oil.	68483	City Cash Grocery, Kamloops.	3 bots.	1 05	Seattle & Puget Sound Pack. Co., Seattle.		Cottonseed.
----------	------------	-------	------------------------------	---------	------	---	--	------------------

DISTRICT OF VANCOUVER—

Oct. 29	Salad Oil.	76166	S. Goransen, 329 Hastings St., E. Van.	3 bots.	75	McLachy Mfg. Co., Van.		
" 30	"	76167	Annandale Supply Co., New Westminster.	3 "	1 50	Kelly Confection Co. Ltd., Van.		
Nov. 5	"	76168	S. T. Wallace, 44 Hastings St. W., Van.	3 "	1 20	Unknown		"Durrands"....
" 7	"	76169	Woodwards Dept. Stores Ltd., Hastings & Abbott Sts., Van.	3 cans.	1 35	The Southern Cotton Oil Co., New York.		

SALAD OIL.

Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
Sp. Gr. at 15° C.	Labelled.	Halphen Test for Cottonseed Oil.	Refractive Index at 15° C.	Refractive Index at 25° C.	Nitric Acid Test.	Beller's Test Arachidic Ac.	Hanus Iodine No.	Saponification No.	Unsatifiable Matter.		

A. W. R. MARKLEY, INSPECTOR.

.....	Lucca	.....	1.4705	.....	Straw yellow	.....	.....	.....	.....	52743	Olive Oil. Genuine.
.....	Olive.	.....	1.4706	.....	"	.....	.....	.....	.....	52744	" "
.....	"	.....	1.4708	.....	"	.....	.....	.....	.....	52645	" "
.....	"	.....	1.4706	.....	"	.....	.....	.....	.....	52746	" "
.....	"	.....	1.4706	.....	"	.....	.....	.....	.....	52747	" "
.....	"	.....	1.4706	.....	"	.....	.....	.....	.....	52748	" "
.....	"	.....	1.4708	.....	"	.....	.....	.....	.....	52749	" "
.....	"	.....	1.4708	.....	"	.....	.....	.....	.....	52750	" "
.....	"	.....	1.4707	.....	"	.....	.....	.....	.....	52751	" "
.....	"	.....	1.4708	.....	"	.....	.....	.....	.....	52752	" "

THOS. PARKER, INSPECTOR.

0-9220	Cotton-seed.	Red.		1.4700	Brown		109.6			68483	Cotton seed oil. Genuine.
--------	--------------	------	-------	--------	-------	-------	-------	-------	-------	-------	---------------------------

G. G. ARMYTAGE, INSPECTOR.

0-9222	Cotton-seed.	Crimson.	.....	1.4701	Brown	.....	109.1	.....	.....	76166	Cotton seed oil. Genuine.
0-9223	"	"	.....	1.4702	"	.....	111.2	.....	.....	76167	" "
0-9221	"	"	.....	1.4701	"	.....	110.2	.....	.....	76168	" "
0-9223	Wesson's.	"	.....	1.4702	"	.....	108.6	.....	.....	76169	" "

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer of Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VICTORIA—

1917.								
Oct. 19	Salad Oil.	75961	Harrison's Cash Grocery, 2271 Oak Bay Ave., Victoria.	3 bts.	90	John Vittucci & Co.		
" 19	"	75962	Oak Bay Grocery, 2252 Oak Bay Ave., Victoria.	3	2 25	H. J. Heinz & Co., Pittsburg.		
" 19	"	75963	J. T. Redding, 810 Catherine St. W., Victoria.	3	1 95	Western Pickling Works, Victoria.		
" 19	"	75964	Thoburn Grocery, Esquimalt, B.C.	3	1 05	"		
" 19	"	75965	H. W. Walker, 760 Esquimalt Road, Victoria.	3	1 05	"		
" 22	"	75966	Dixie H. Ross & Co., 1317 Govt. St., Victoria.	3	1 80	Vendors		
" 22	"	75967	Copas & Young, 633 Fort St., Victoria.	3	90	Kelly Confection Co., Van.		
" 23	"	75968	People's Cash Grocery, 749 Yates St., Victoria.	3	2 10	R. P. Ritthet & Co. Ltd., Victoria.		
Nov. 2	"	75969	Workmen's Co-op Assn., Nanaimo, B.C.	3	2 55	Seattle & Puget Sound Pack Co., Seattle.		

SALAD OIL.

Results of Analysis.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Sp. Gr. at 15.5°C.	Labelled.	Hallphen Test for Cottonseed Oil.	Refractive Index at 15.5°C.	Refractive Index at 25°C.	Nitric Acid Test.	Bellier's Test Arachidic Ac.	Hanus Iodine No.	Saponification No.	Unsaturation Matter.	Refractive Index of Unsaponifiable Matter.		

G. G. ARMYTAGE, ACTING INSPECTOR.

0 9161	Olive.	Yel. low	1.4700	1.4665	Yel. low.	.....	84.8	.....	.....	.....	75961	Olive oil. Genuine.
0 9162	"	"	1.4700	1.4665	"	.....	84.3	.....	.....	.....	75962	" " "
0 9221	Cotton-seed.	Crimson.	.....	1.4701	Brown	.....	109.1	.....	.....	.....	75963	Cotton seed oil. Genuine.
0 9222	"	"	.....	1.4702	"	.....	110.7	.....	.....	.....	75964	" " "
0 9225	"	"	.....	1.4704	"	.....	113.2	.....	.....	.....	75965	" " "
0 9220	"	"	.....	1.4700	"	.....	109.1	.....	.....	.....	75966	" " "
0 9222	"	"	.....	1.4701	"	.....	110.7	.....	.....	.....	75967	" " "
0 9218	"	"	.....	1.4698	"	.....	110.2	.....	.....	.....	75968	" " "
0 9222	"	"	.....	1.4701	"	.....	107.6	.....	.....	.....	75969	" " "