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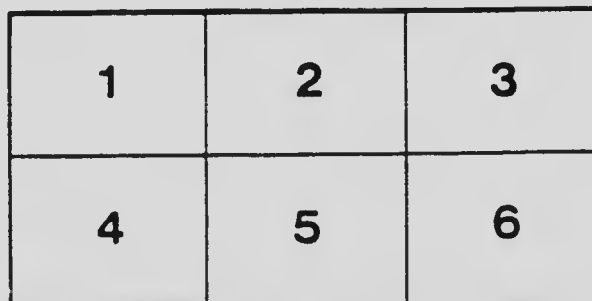
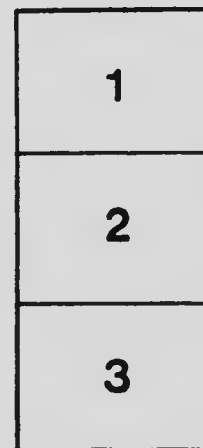
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LABORATORY
OF THE
INLAND REVENUE DEPARTMENT

OTTAWA, CANADA.

J. Dawson
BULLETIN No. 251

GROUND CINNAMON AND CASSIA.

37799-1

J. Dawson
317 Queen St.

Ottawa

20/10/14

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA.

BULLETIN No. 251

GROUND CINNAMON AND CASSIA.

OTTAWA, March 5, 1911

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

SIR,—I beg to submit to you herewith a report upon 250 samples purchased throughout Canada in September and October of last year, as Cinnamon and Cassia. One hundred and thirty eight (138) samples were sold as Cinnamon and one hundred and twelve (112) as Cassia.

The last inspection of these articles was made in November and December of 1906, and reported as Bulletin No. 138.

The introductory remarks there published may be repeated here, as fully descriptive of what is known regarding Cinnamon and Cassia in commerce.

Cinnamon and *Cassia* are the dry barks of trees which belong to the same botanical genus, *Cinnamomum*. Cinnamon is the bark of *C. Zeylanicum*, chiefly grown in Ceylon and the East Indies; Cassia is the bark of *C. Cassia*, chiefly grown in China and India. The former bark is thinner, lighter in colour and exists (commercially) in smaller rolls than Cassia bark. It is sufficiently easy to distinguish the two articles, in the unground state; and there is a considerable difference in price between whole cinnamon and whole cassia. The botanical elements of the two are, however, practically identical; and, in the finely ground state, it becomes a difficult, if not an impossible thing, to discriminate between them. The darker colour of Cassia is almost the only distinctive character that remains.

Whether cassia is inferior to cinnamon for flavouring purposes, in cookery, is an open question. The general impression is that cinnamon is preferable. Its higher price is doubtless due to this preference. At the same time it is certain that much, if not most, of the ground cinnamon of commerce, is really ground cassia.

Several grinders distinctly label their goods with the word *Cassia*; and it is probable that the same spicemen put on the market a higher priced article under the name *Cinnamon*; but of this I have no conclusive proof. It is however quite certain that the spice in question is known to most domestic users as *Cinnamon*; while the term *Cassia* conveys a very vague meaning, or no meaning whatever. Throughout Quebec the article known as *Canelle*, which means cinnamon as distinguished from cassia, to which belongs the term *Casse*, seldom mentioned except as a drug.

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Under these circumstances, it will be seen that a discrimination between cinnamon and cassia, as spices, is difficult to maintain. It is open to question how far we may take the darker colour of cassia, as evidence of its presence.

The difficulty of distinguishing between cinnamon and cassia, in the ground state, is recognized by the Committee of Standards at Washington, as shown by the following definitions, proclaimed as legal for the United States in June, 1906 :

Cinnamon is the dried bark of any species of the genus *Cinnamomum*, from which the outer layers may or may not have been removed.

True Cinnamon is the dried inner bark of *Cinnamomum Zeylanicum*, Breyn.

Cassia is the dried bark of various species of *Cinnamomum*, other than *Cinnamomum Zeylanicum*, from which the outer layers may or may not have been removed.

Cassia buds are the dried, immature fruit of species of *Cinnamomum*.

Ground Cinnamon, Ground Cassia, is a powder consisting of Cinnamon, Cassia or Cassia buds, or a mixture of these spices, and contains not more than six (6) per cent of total ash, and not more than two (2) per cent of sand.

So far as admixture of Cassia is concerned, I do not think that the present state of our knowledge justifies me in pronouncing it an adulteration of the spice known as Ground Cinnamon. This aspect of the matter must be left open for the present.

The results of the present inspection are as follows :—

Apparently genuine	198
Adulterated	12
Doubtful	14
Samples lost or collected by mistake	4
Ash abnormal	22
	250

Adulteration consists in the presence of matters foreign to Cinnamon or Cassia, and is declared under Section 3 (a) and (b) of the Adulteration Act.

When the amount of foreign matter is inconsiderable, and possibly due to mistake, or unintentional carelessness I have used the word doubtful.

Abnormal ash in the absence of legal Standards for the article, cannot be declared as adulteration.

It will be necessary to establish standards for Cinnamon and Cassia, particularly as regards ash content; and this matter will be kept in view by your Advisory Board.

The report now furnished will enable us to arrive at a decision.
I beg to publication of this report as Bulletin No. 251.

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—

1912.							
Sept. 13	Ground Cinnamon.	46861	Jno. P. Mott & Co., Halifax, N.S.	3 lb..	Nil.	Vendors.....	
" 13	" ..	46862	Nat. Drug and Chem Co., Halifax, N.S.	3 " ..	25	" ..	
" 16	" ..	46863	Morrison & Williams, Halifax, N.S.	3 " ..	22	D. A. Morrison, Am- herst, N.S.	Manufacturer....
" 17	" ..	46864	Jas. Scott & Co., Hal- ifax, N.S.	3 " ..	30	W. H. Schwartz & Sons, Halifax, N.S.	Manufacturers....
" 17	" ..	46865	Bauld Bros., Ltd., Halifax, N.S.	3 " ..	24	" " ..	" ..
" 19	" ..	46866	W. H. Schwartz & Sons, Halifax, N.S.	3 " ..	20	Vendors	
" 19	" ..	46867	Chisholm & Co., Hal- ifax, N.S.	3 " ..	19	J. P. Mott & Co., Halifax, N.S.	Manufacturers....
" 19	" ..	46868	Dillon Bros., Halifax, N.S.	3 " ..	15	" " ..	" ..
" 24	" ..	46869	Yerkas, Yarnouth N.S.	3 " ..	30	White Swan Co., To- ronto, Ont.	" ..
Oct. 8	" ..	46870	G. A. Orman, Dart- mouth, N.S.	3 " ..	30	Unknown....	

DISTRICT OF PRINCE EDWARD ISLAND—

Sept. 6	Ground Cinnamon.	46277	R. T. Maddigan & Co., Charl'town, P.E.I.	3 lb..	30	Jno. P. Mott & Co., Halifax, N.S.	
" 10	" ..	46278	The 2 Macs, Charlotte- town, P.E.I.	3 " ..	70	Lymans Ltd., Mon- treal.	
" 10	" ..	46279	The McKinnon Drug Co., Charlottetown, P.E.I.	3 " ..	48	Unknown.....	
" 12	" ..	46280	A. J. Warren, Char- lottetown, P.E.I.	3 " ..	24		J. A. Farquharson, Ch'town, P.E.I.
" 12	" ..	46281	W. W. Walker, Char- lottetown, P.E.I.	3 " ..	30		Carvell Bros., Ch'town, P.E.I.
" 13	" ..	46282	J. G. Jamieson, Char- lottetown, P.E.I.	3 " ..	90	Lymans Ltd., Mon- treal.	
" 17	" ..	46283	Geo. Forbes, Vernon River Bridge, P.E.I.	3 " ..	21	Unknown.....	
" 1	" ..	46284	Gourlies Ltd., Sum- merside, P.E.I.	3 " ..	30	Nat. Drug Co., Hal- ifax, N.S.	
" 1	" ..	46285	Sinclair & Stewart, Summerside, P.E.I.	3 " ..	30	Unknown.....	
" 3	" ..	46286	J. J. Hughes, Souris, P.E.I.	3 " ..	30	Dearborn & Co., St. John, N.B.	

GROUND CINNAMON.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.			Microscopical Examination.

R. J. WAUGH, INSPECTOR.

	p. c.	p. c.			
	4.47	1.03	No foreign tissues	46861	Apparently genuine.
	3.73	0.20	"	46862	"
ur	8.13	4.00	"	46863	Total and insoluble ash, high.
urers	3.74	1.02	"	46864	Apparently genuine.
	3.40	0.29	"	46865	"
	3.41	0.05	"	46866	"
urers	4.74	0.40	"	46867	"
	4.98	0.69	"	46868	"
	3.39	0.72	"	46869	"
	3.46	0.96	"	46870	"

WM. A. WEEKS, INSPECTOR.

	4.77	0.73	No foreign tissues	46277	Apparently genuine.
	7.95	4.36	Some outer bark tissue	46278	Total and insoluble, ash high.
After sample was pur- chased and labelled as Cinnamon, vendor said it was "Cassia Cinnamon."	5.54	1.84	No foreign tissues	46279	Apparently genuine.
arquharson, own, P.E.I.	3.04	0.64	"	46280	"
own, P.E.I.	4.45	0.79	"	46281	"
	5.98	1.34	"	46282	"
	3.44	1.12	"	46283	"
	4.63	1.29	"	46284	"
	5.08	1.96	Some outer bark tissues	46285	"
	3.59	0.18	No foreign tissues	46286	"

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 NEW BRUNSWICK—

1912.							
Sept.	4	Ground Cinnamon	50450 Dearborn & Co., St. John, N.B.	lb.	21	Vendors	
"	1	"	50451 Paddington, Wetmore Morrison, Ltd., St. John, N.B.	"	21	"	
"	1	"	50452 G. E. Barbour Co., Ltd., St. John, N.B.	"	25	"	
"	5	"	50453 H. W. Cole, Ltd., St. John, N.B.	"	27	"	
"	5	"	50454 McCreedy & Son, Ltd., St. John, N.B.	"	18	"	
Oct.	5	"	50455 B. Beveridge, Andover, N.B.	3 pkgs.	30	Daird & Peters, St. John, N.B.	
"	7	"	50456 H. N. Dickinson, Perth, N.B.	3	30	G. E. Barbour Co., Ltd., St. John, N.B.	
"	16	"	50457 J. T. Ryan, Moncton, N.B.	lb.	30	Unknown	Jones & Schofield, St. John, N.B.
"	18	"	50458 Yoxa Grocery Co., Ltd., Chatham, N.B.	"	27	Unknown	Unknown
"	19	"	50459 A. J. Mahan, Bathurst, N.B.	3 pkgs.	24		H. W. Cole, Ltd. St. John, N.B.

DISTRICT OF QUEBEC—

Sept.	3	Ground Cinnamon	37221 Eudore Delisle, 2 Ave. Tachereau, Quebec.	lb.	30	Herron & Leblanc	Mfrs., Montreal
"	5	"	37222 W. Cantin, 133 Rue du Pont, Quebec.	"	30	Unknown	Unknown
"	6	"	37223 G. Gingras, 208 Rue du Roi, Quebec.	"	30	"	J. B. Reneaud & Cie., Quebec.
"	9	"	37224 Cantin Frere, 271 Rue Joseph, Quebec.	"	30	"	
"	10	"	37225 C. S. Rivierin, 59 Rue de la Comonne, Quebec.	"	30	Lister Pure Food Co., Toronto.	Mfrs.
"	11	"	37226 Myrand & Pouliot, 79 Rue de la Couronne, Quebec.	"	30	Unknown.	Unknown
"	12	"	37227 Arthur Drolet, 714 Rue St. Valier, Quebec.	"	30	"	Herron & Leblanc, Montreal.
"	13	"	37228 A. Rinfrot, 414 Rue St. Joseph, Quebec.	"	30	"	Unknown
"	16	"	37229 Hamel & Bedard, 728 Rue St. Joseph, Quebec.	"	30	Lister Pure Food Co., Toronto.	Mfrs.
"	17	"	37230 V. Lacasse & Cie, 7 Rue St. Clair.	"	30	Unknown	Whitehead & Turner.

GROUND CINNAMON.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.			Microscopical Examination.

J. C. FERGUSON, INSPECTOR.

	p.c.	p.c.			
.....	3.00	0.59	Some dark coloured tissues of outer bark.	50450	Apparently genuine.
.....	1.90	0.04	Some dark coloured tissues of outer bark; principally starch.	50451	Ash very low; appar- ently genuine.
.....	3.74	1.15	No foreign tissues	50452	Apparently genuine.*
.....	4.31	0.79	" "	50453	" "
.....	3.09	0.08	" "	50454	" "
"Reindeer" Brand,...	3.60	0.08	" "	50455	" "
"Acorn" Brand	3.52	1.25	" "	50456	" "
.....	5.47	1.07	" "	50457	" "
.....	9.92	5.48	" "	50458	Total and insoluble ash high.
"Thistle" Brand.....	3.02	0.64	" "	50459	Apparently genuine.

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

.....	8.08	4.29	Some outer bark tissues.	37221	Total and insoluble ash high.
.....	4.66	1.76	" "	37222	Apparently genuine.
.....	5.10	2.20	Some foreign starch (p. starch) and other foreign tis.	37223	Insoluble ash high; adul- terated.
.....	4.60	1.72	" "	37224	Adulterated with foreign starch and tissues.
.....	6.69	3.05	No foreign tissues.	37225	Total and insoluble ash high.
.....	2.62	0.21	" "	37226	Apparently genuine.
.....	1.96	0.09	" " principally starch.	37227	Ash abnormally low; ap- parently genuine.
.....	6.09	3.02	A large amount of foreign starches apparently pea and wheat.	37228	Insoluble ash high; adul- terated.
.....	5.06	1.80	No foreign tissues.	37229	Apparently genuine.
.....	5.15	2.23	" "	37230	Insoluble ash high.

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 ST. HYACINTHE—

1912.							
Sept. 16	Ground Cinnamon	1465	W. J. Watkins, St. G. de Grantham	3 lbs.	27		L. Chaput fils & Cie., Montreal.
" 16	"	1466	Cyprien Gaumont, St. Bonaventure.	3 "	18		Schooner & Cie., Pierreville.
" 17	"	1467	Laperriere & Filo, Pierreville.	3 "	19	Herron Leblanc, Montreal.	
" 17	"	1468	B. H. Bellant, Yamaska, Ouest.	3 "	30		Lacelle & Gendreau Montreal.
" 20	"	1469	M. Proulx, St. Anne.	3 "	30	Unknown	Unknown
" 24	"	1470	Ed. Bienvenn, Farnham.	3 "	30	"	"
" 25	"	1471	J. A. Fortier, St. Sebastien.	3 "	20		L. Chaput Fils & Cie., Montreal.
" 27	"	1472	A. Ledoux, St. Armand.	3 "	23		Hudon & Orsali, Montreal.
Oct. 2	"	1473	A. N. Pierre, Megantic	3 "	23	J. J. Duffy & Co., Montreal.	Whitehead & Turner, Quebec.
" 8	"	1474	A. Bastien, Racine Ely	3 "	30	Unknown	Unknown

DISTRICT OF MONTREAL—

Oct. 7	Ground Cinnamon	51021	Thos. J. Muir, 4500 St. St. Cath. St. Westmount.	3 lbs.	30		
" 8	"	51022	R. Bernard, 91 Lagardiere St., Montreal	3 "	30	J. V. Boudrias Ltd., Montreal.	
" 8	"	51023	Theo. Pochon, 210 City Hall Ave., Montreal.	3 "	30	Unknown	
" 11	"	51024	Lewis Reese, 343 Church Ave., Verdun, P.Q.	3 "	30		
" 11	"	51025	Jos. Bonenfant, 428 Church Ave., Montreal.	3 "	27		
" 16	"	51026	Annex Proc. Co., 1750 Hutchison St., Montreal.	3 "	30		
" 17	"	51027	Ceo. Dixon, Huntingdon, P. Q.	3 "	27		
" 18	"	51028	F. J. Paquette, 385 Bleurey St., Montreal.	3 "	30		
" 19	"	51029	E. Paquette, 39 Mount Royal Ave., East, Montreal.	3 "	30		
" 19	"	51030	J. A. Courtemanche, 24 Rachel St., East, Montreal.	3 "	30		

GROUND CINNAMON

Inspector's Report, (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.		

J. C. ROULEAU, INSPECTOR.

	p. c.	p. c.			
.....	5.53	2.05	No foreign tissues.....	1465	Apparently genuine
.....	3.12	1.35	"	1466	" "
.....	4.66	1.97	Some foreign tissues, reticulated cells, etc., unidentified.	1467	Doubtful.
.....	4.73	1.86	No foreign tissues.....	1468	Apparently genuine.
.....	5.01	1.65	"	1469	" "
.....	4.78	1.67	"	1470	" "
.....	4.64	1.75	"	1471	" "
.....	5.65	0.62	A small amount of turmeric present.	1472	Doubtful.
.....	5.36	2.58	No foreign tissues.....	1473	Insoluble ash high.
.....	3.98	0.82	"	1464	Apparently genuine.

J. J. COSTIGAN, INSPECTOR.

.....	6.17	1.11	Contains a considerable amount of turmeric.	51021	Doubtful.
.....	4.98	1.36	Contains a considerable amount of foreign starch and tissues, apparently pea starch.	51022	Adulterated.
.....	4.28	1.56	Contains a considerable amount of foreign starch and tissues, apparently pea starch.	51023	Adulterated.
.....	6.69	0.98	Contains a considerable amount of turmeric.	51024	Doubtful.
.....	6.66	1.08	Contains a considerable amount of turmeric.	51025	"
.....	6.49	1.15	Contains a considerable amount of turmeric.	51026	"
"White Swan" Brand.	3.26	0.49	No foreign tissues.....	51027	Apparently genuine.
.....	3.64	1.03	Some dark colored tissues of outer bark.	51028	" "
.....	4.43	1.53	Some dark colored tissues of outer bark.	51029	" "
.....	4.18	0.92	A small amount of foreign starch apparently pea starch.	51030	Doubtful.

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 OTTAWA—

1912.							
Aug. 30	Ground Cinnamon.	50262	J. C. Brown & Co., Vankleek Hill.	$\frac{3}{4}$ lb.	30	Gorman Eckert, Lon- don, Ont.	Mfrs
Sept. 4	"	50263	Geo. Agar, Ottawa....	$\frac{3}{4}$ " ..	30	.....	H. N. Bate & Sons, Ottawa.
" 4	"	50264	Alex. Phillips, Ottawa	$\frac{3}{4}$ " ..	30	Unknown.....	Unknown
" 5	"	50265	J. B. Bedard, Hull, P.Q.	$\frac{3}{4}$ " ..	30	"	"
" 5	"	50266	J. E. Ryan & Co., Hull, P.Q.	$\frac{3}{4}$ " ..	30	C. H. Cochrane & Co., Ottawa.	Mfrs
" 6	"	50267	J. Culbert, Brockville	$\frac{3}{4}$ " ..	30	Pure Gold Mfg. Co., Ltd., Toronto.	"
" 6	"	50268	A. E. Shaver, Brock- ville.	$\frac{3}{4}$ " ..	30	"	"
" 7	"	50269	McDermott & McCart- hy, Prescott.	$\frac{3}{4}$ " ..	30	J. M. Lowes Co., Ltd., Toronto.	"
" 11	"	50270	Wm. Miller, Ottawa	$\frac{3}{4}$ " ..	30	Unknown	Unknown
" 18	"	51619	John Kerr, Merrick- ville.	$\frac{3}{4}$ " ..	30	"	"

DISTRICT OF KINGSTON—

Sept. 3	Ground Cinnamon.	50761	J. Campbell, Kingston	$\frac{3}{4}$ lb.	30	.....	Geo. Robertson & Son, Kingston.
" 9	"	50762	S. R. Artis, Belleville.	$\frac{3}{4}$ " ..	30	.....	J. Sloan & Son, Belleville.
" 9	"	50763	Wallbridge & Clark, Belleville.	$\frac{3}{4}$ " ..	30	.....	Gunn Munroe Bros., Brantford
" 9	"	50764	C. Hilton, Belleville	$\frac{3}{4}$ " ..	30	.....	White Swan Co., Toronto.
" 10	"	50765	H. Crozer, Cobourg...	$\frac{3}{4}$ " ..	80	.....	Dalton Bros., To- ronto.
" 10	"	50766	N. C. Nichols, Cobourg	$\frac{3}{4}$ " ..	30	.....	E. Bey Blin Co., Toronto.
" 10	"	50768	F. Rosevear, Port Hope	$\frac{3}{4}$ " ..	30	.....	F. F. Dalley Co., Hamilton.
" 10	"	50769	W. D. Sephens, Port Hope.	$\frac{3}{4}$ " ..	35	.....	Gorman Eckert, London.
" 11	"	50770	W. J. Ronlty, Peter- boro	$\frac{3}{4}$ " ..	30	.....	White Swan Co., Toronto.
" 11	"	50792	J. Hill, Peterboro.....	$\frac{3}{4}$ " ..	30	.....	Gorman Eckert, London.

GROUND CINNAMON.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.		

J. A. RICKEY, INSPECTOR.

	p. c.	p. c.			
.....	3.82	1.14	No foreign tissues.....	50262	Apparently genuine.
.....	4.30	1.78	"	50263	" "
.....	1.72	1.96	A large amount of foreign starch and tissues. Pea starch.	50264	Adulterated.
.....	3.19	0.68	Contains a large admixture of wheat and maize starch. Co- conut shells, etc.	50265	" "
.....	5.04	0.68	Some dark colored tissues of outer bark.	50266	Apparently genuine.
.....	3.56	0.80	No foreign tissues.....	50267	" "
.....	3.64	1.17	A few grains of ginger starch present.	50268	" "
.....	3.49	0.82	No foreign tissues.....	50269	" "
.....	5.69	1.92	A few grains of ginger starch present.	50270	" "
.....	3.13	0.87	No foreign tissues	51619	" "

JAS. HOGAN, INSPECTOR.

.....	4.66	1.80	No foreign tissues	50761	Apparently genuine.
.....	4.31	0.98	"	50762	" "
.....	3.83	0.49	"	50763	" "
.....			Sample destroyed in transit....	50764	Sample lost.
.....	3.51	0.13	A small amount of foreign tissues including Coconut shells	50765	Doubtful.
.....	3.33	0.69	No foreign tissues.....	50766	Apparently genuine.
.....	5.05	1.34	"	50768	" "
.....	4.04	1.28	"	50769	" "
.....	3.62	0.82	"	50770	" "
.....	3.43	0.80	"	50792	" "

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 TORONTO—

1912.							
Sept.	13	Ground Cinnamon	51451 Fred Finn, 126 Denison Ave., Toronto.	1 lb.	27	.....	Pure Gold Mfg. Co., Ltd., Toronto.
"	13	"	51452 The Loblaw Store, 496 Queen st. west, Toronto.	1 "	30	.....	Medland Bros., Toronto.
"	16	"	51453 A. Bell, 1906 Queen st. east, Toronto.	1 "	25	.....	The J. M. Lowes Co., Ltd., Toronto.
"	17	"	51454 Good Bros., 1004 Bloor st. west, Toronto.	1 "	30	.....	Dalton Bros., Toronto.
"	20	"	51455 W. L. Bosworth, Newmarket.	1 "	30	.....	Unknown.....
Oct.	2	"	51456 J. A. Eton, 155 King William st., Hamilton.	1 "	30	.....	Balfour, Lusye & Co., Hamilton.
"	2	"	51457 Chas. Smith, 661 Barton st. east, Hamilton.	1 "	20	.....	W. H. Gillard & Co., Hamilton.
"	2	"	51458 J. S. Nicholson, Locke st. south, Hamilton.	1 "	19	.....	Young & Winfield, Hamilton.
"	2	"	51459 Cowalls Grocery (Branch), Queen & Humbert sts., Hamilton.	1 "	30	.....	Supplied from Main Store, 115 John st. south, Hamilton.
"	3	"	51460 W. R. Budge, 25 York st., Hamilton.	1 "	30	.....	Todhunter, Mitchell Co., Tor-

DISTRICT OF WINDSOR—

Oct.	2	Ground Cinnamon.	48150 C. Maston, Petrolia.	1 lb.	30	Unknown.....	Unknown.....
"	4	"	48172 R. H. Davis, Strathroy.	1 "	30	.....	Elliott, Marr & Co., London.
"	7	"	48173 G. A. Curtis, Simcoe.	1 "	60	McLaren's, Ltd., Hamilton.	.....
"	7	"	48175 R. Edmunds, Simcoe.	1 "	30	White Swan S. & C. Co., Toronto.	.....
"	7	"	48180 G. J. Ineson, Simcoe.	1 "	30	I. & L. Spice & Coffee Co., London.	.....
"	7	"	48187 W. B. Hogarth & Son, Tillsenburg.	1 "	25	Unknown.....	Unknown.....
"	8	"	48189 Inrie & Stewardson.	1 "	30	.....	Masuret & Co., London.
"	8	"	48191 Harold M. Scott & Co., Tillsenburg.	1 "	30	.....	Geo. Watt & Son, Brantford.

GROUND CINNAMON.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.		

H. J. DAGER, INSPECTOR.

	p. c.	p. c.			
.....	3.87	1.18	No foreign tissues.....	51451	Apparently Genuine.
.....	3.16	0.96	"	51452	"
Pure Ground Cinnamon.	3.61	0.72	"	51453	"
.....	3.05	0.83	"	51454	"
.....	3.79	0.41	"	51455	"
.....	4.02	0.52	"	51456	"
.....	4.16	0.87	"	51457	"
.....	3.60	0.60	"	51458	"
.....	4.52	1.12	"	51459	"
.....	3.66	0.66	"	51460	"

JNO. TALBOT, INSPECTOR.

.....	3.07	0.48	No foreign tissues.....	48150	Apparently Genuine.
.....	3.52	0.98	Some dark coloured tissues from outer bark.	48172	"
.....	4.21	0.81	No foreign tissues.....	48173	"
.....	3.46	0.25	"	48175	"
.....	4.71	1.24	"	48180	"
.....	3.91	1.03	Some dark coloured tissues from outer bark.	48187	"
.....	4.21	0.85	No foreign tissues	48189	"
.....	5.42	1.84	"	48191	"

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 MANITOBA—

1912.							
Sept. 17	Ground Cinnamon.	48711	J. E. Manning, Sargent ave., Winnipeg.	1 lb.	30	Unknown.	Unknown.
" 17	"	48712	Conley & Yost, Winnipeg.	1 "	30	The Dyson Co., Winnipeg.	Mfrs.
" 19	"	48713	M. Shuter, Emerson.	3 tins.	20	The White Star Mfg. Co., Winnipeg.	
" 23	"	48714	P. Nelson, Winnipeg.	1 lb.	30		
" 23	"	48715	W. H. Morgan, Winnipeg.	1 "	30		The Colville Co., Winnipeg.
" 23	"	48716	West Mercantile Co., Winnipeg.	1 "	30		
" 24	"	48717	P. J. Foley & Co., Stonewall.	1 "	30		The Jobin Marrin Co., Winnipeg.
" 25	"	48718	C. Finkleman, Selkirk.	1 "	25		
" 25	"	48719	W. Robinson & Co., Ltd., Selkirk.	1 "	30		
" 25	"	48720	W. Fostein, Selkirk.	1 "	30		

DISTRICT OF NELSON—

Sept. 3	Ground Cinnamon.	19685	M. Scally, Nelson, B.C.	3 tins.	40	W. Braid & Co., Vancouver.	
" 3	"	49692	Bell Trading Co., Nelson, B.C.	1 lb.	30	W. Braid & Co., Vancouver.	
" 6	"	49704	G. B. Armstrong, Merritt, B.C.	3 tins.	45	Kelly Douglas & Co., Vancouver.	
" 6	"	49709	Merritt Merc. Co., Merritt, B.C.	1 lb.	30	W. Braid & Co., Vancouver.	
" 6	"	49715	Merritt Ind. Co. of Soey., Merritt, B.C.	3 tins.	30	W. H. Malkin & Co., Vancouver.	
" 9	"	49721	L. C. Masson, Revelstoke, B.C.	1 lb.	30	Kelly Douglas & Co., Vancouver.	
" 9	"	19732	B. B. Camozzi, Revelstoke, B.C.	3 tins.	40	Wilson Bros., Victoria, B.C.	
" 9	"	49735	D. Gallano, Revelstoke, B.C.	1 lb.	30	W. H. Malkin & Co., Vancouver.	
" 23	"	49755	H. G. Parson, Ltd., Golden, B.C.	3 tins.	45	Kelly Douglas & Co., Vancouver.	
" 23	"	49762	C. R. Lumber Co., Golden, B.C.	1 lb.	45	Kelly Douglas & Co., Vancouver.	

DISTRICT OF VANCOUVER—

Sept. 21	Ground Cinnamon	38429	Red Star Grocery, 2,505 Main St., Vancouver, B.C.	1 lb.	35	Empress Mfg. Co., Vancouver.	
" 21	"	38430	Efford Bros., 244 Broadway E., Vancouver, B.C.	1 "	30	Unknown	
" 21	"	38431	Moore's Grocery, 2425 Main St., Vancouver, B.C.	1 "	30	"	

GROUND CINNAMON.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.		

A. C. LARIVIERE, INSPECTOR.

	p. c.	p. c.			
.....	4.23	0.40	No foreign tissues.....	48711	Apparently genuine.
.....	3.01	0.26	" "	48712	" "
.....	2.34	0.27	" "	48713	" "
.....	3.28	0.85	" "	48714	" "
Co.,	3.67	1.01	" "	4.715	" "
.....	3.26	0.68	" "	48716	" "
arrin p.g.	4.29	0.19	" "	48717	" "
.....	2.71	0.62	" "	48718	" "
.....	3.61	1.10	" "	48719	" "
.....	3.48	0.80	" "	48720	" "

THOS. PARKER, INSPECTOR.

.....	3.34	0.06	No foreign tissues.....	49685	Apparently genuine.
.....	2.82	0.12	" "	49702	" "
.....	2.60	0.12	" "	19704	" "
.....	*	*	.....	49709	Sample lost.
.....	2.97	0.40	No foreign tissues.....	49715	Apparently genuine.
.....	2.60	0.09	" "	49721	" "
.....	2.82	0.25	" "	49732	" "
.....	3.76	1.06	Some outer bark tissues	49735	" "
"Nabob".....	2.60	0.07	No foreign tissues.....	49735	" "
"	2.31	0.10	" "	49762	" "

J. F. POWER, INSPECTOR.

.....	3.44	0.04	No foreign tissues.....	38429	Apparently genuine.
.....	3.26	0.24	" "	38430	" "
.....	2.65	0.07	" "	38431	" "

* Sample destroyed in transit.

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

DISTRICT OF VANCOUVER—

1912.								
Sept. 21	Ground Cinnamon	38432	Kelly's Grocery, 2333 Main St., Vancouver, B.C.	2	lb.	30	Kelly Douglas & Co., Vancouver.	
" 21	"	38433	F. Filion, Carrol St., Vancouver, B.C.	2	"	30	Empress Mfg. Co., Vancouver.	
" 23	"	38434	F. Ayling, Cedar Cottage, Vancouver, B.C.	2	"	30	" "	
" 23	"	38435	Ison's Grocery, Commercial Drive, Vancouver, B.C.	3	tins.	45	Oriental Mills Co., Vancouver.	
" 23	"	38436	J. Main, Commercial Drive, Vancouver, B.C.	2	lb.	30		
" 23	"	38437	Clark's Grocery, Hastings St., E., Vancouver, B.C.	2	"	35	Kelly Douglas Co., Vancouver.	
" 23	"	38438	A. A. Bower, Main St., Vancouver, B.C.	2	"	30	Empress Mfg. Co., Vancouver.	

DISTRICT OF VICTORIA—

Sept. 10	Ground Cinnamon	49188	Windsor Grocery Co., 817 Gov't St., Victoria, B.C.	2	lb.	40		Pioneer Coffee and Spice Mills, Victoria, B.C.
" 11	"	49189	The West End Grocery Co., Ltd., Victoria B.C.	3	tins.	30		H. P. Rithet & Co., Victoria, B.C.
" 11	"	49190	Copas & Young, Fort St., Victoria, B.C.	3	"	25		W. Braid & Co., Vancouver.
" 16	"	49191	Acton Bros., 1317 Douglas St., Victoria, B.C.	3	"	30		Empress Mfg. Co., Vancouver.
" 16	"	49192	H. & K. Grocery, 1425 Douglas St., Victoria, B.C.	3	"	30		"
" 19	"	49193	Harrison & McDonald, 1215 Douglas St., Victoria, B.C.	2	lb.	30		"
" 20	"	49194	F. E. Plummer, 1118 Quadra St., Victoria, B.C.	3	tins.	30		S. Leiser & Co., Victoria, B.C.
" 24	"	49195	E. G. Bailey, 755 Fort St., Victoria, B.C.	3	"	30		W. A. Jameson Coffee Co., Victoria, B.C.
" 25	"	49196	Erskine & Co., Johnsten St., Victoria, B.C.	3	"	30		"
Oct. 15	"	49197	Henry W. Driver, 856 Yates St., Victoria, B.C.	3	"	30		E. R. Durkee, New York.

GROUND CINNAMON.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.		

Concluded.

.....	p.c.	p.c.			
.....	2.60	0.04	No foreign tissues.....	38432	Apparently genuine
.....	3.29	0.03	" "	38433	" "
.....	3.32	0.06	" "	38434	" "
The Spice in this Can is guaranteed to be of the finest quality, full strength and full weight.	2.61	0.14	" "	38435	" "
.....	3.61	0.44	Contains foreign tissues and maize starch.	38436	Adulterated.
.....	3.56	0.14	No foreign tissues.....	38437	Apparently genuine.
.....	3.40	0.17	" "	38438	" "

D. O'SULLIVAN, INSPECTOR.

.....	4.36	1.76	No foreign tissues.....	49188	Apparently genuine.
"St. James" Brand.	4.18	1.62	" "	49189	" "
"Anti-Combine" "	2.63	0.11	" "	49190	" "
"Empress" "	3.19	0.08	" "	49191	" "
" " "	3.13	0.09	" "	49192	" "
.....	4.03	1.63	" "	49193	" "
"Lord Roberts" "	4.11	1.53	" "	49194	" "
"Victoria" "	3.51	0.69	" "	49195	" "
" " "	4.95	2.12	" "	49196	Insoluble ash high.
"Gauntlet" "	3.08	0.37	" "	49197	Apparently 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.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1912.							
Sept. 11	Ground Cassia.....	46851	Wentzells Ltd., Halifax, N.S.	3 lb.	18	J. P. Mott & Co., Halifax, N.S.	Mfrs.....
" 11	"	46852	Wm. Moore, Halifax, N.S.	3 " "	21	" " "	"
" 13	"	46853	Jno. P. Mott & Co., Halifax, N.S.	3 " "	Nil.	" " "	"
" 13	"	46854	Nat. Drug & Chem. Co., Halifax, N.S.	3 " "	20	Vendors.....	"
" 16	"	46855	Morrison & Williams, Halifax, N.S.	3 " "	18	W. H. Schwartz & Sons, Halifax.	Mfrs.....
" 17	"	46856	Bauld Bros. Ltd., Halifax, N.S.	3 " "	24	" " "	"
" 17	"	46857	Jas. Scott & Co., Halifax, N.S.	3 " "	20	C. H. Cochrane, Ottawa.	"
" 17	"	46858	A. L. Doyle & Co., Halifax, N.S.	3 " "	21	W. H. Schwartz & Sons, Halifax.	"
" 18	"	46859	R. B. Seeton & Co., Halifax, N.S.	3 " "	18	" " "	"
" 19	"	46860	W. H. Schwartz & Sons, Halifax, N.S.	3 " "	15	Vendors..	"

DISTRICT OF PRINCE EDWARD ISLAND—

Sept. 6	Ground Cassia.....	46287	J. G. Jamieson, Charlottetown, P.E.I.	3 lb.	30	Lyman's Ltd., Montreal.	"
" 7	"	46288	A. Gates & Co., Charlottetown, P.E.I.	3 " "	30	Pure Gold Co., Toronto.	"
" 9	"	46289	Coffin & Co., Charlottetown, P.E.I.	3 " "	30	G. D. Barbour, St. John, N.B.	"
" 12	"	46290	J. G. Passmore, Charlottetown, P.E.I.	3 " "	30	" " "	J. A. Farquhar & Co., Charlottetown, P.E.I.
" 12	"	46291	L. A. Hazard, Charlottetown, P.E.I.	3 " "	30	Schwartz & Sons, Halifax, N.S.	"
" 14	"	46292	Reddin Bros., Charlottetown, P.E.I.	3 " "	30	Lyman's Ltd., Montreal.	"
" 21	"	46293	Apothecaries Hall Co., Charlottetown, P.E.I.	3 " "	30	" " "	"
Oct. 1	"	46294	Brace McKay & Co., Summerside, P.E.I.	3 " "	30	Pure Gold Co., Toronto.	"
" 3	"	46295	J. J. Hughes, Souris, P.E.I.	3 " "	30	Nat. Drug & Chem. Co., Halifax.	"
" 3	"	46296	Mathew & McLean, Souris, P.E.I.	3 " "	24	Dearborn & Co., St. John, N.B.	"

No. 251—

GROUND CASSIA.

Manufacturer
by the

Furnisher.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.		

SCOTIA—

R. J. WAUGH, INSPECTOR.

	p. c.	p. c.			
.....	2.67	0.50	No foreign tissues	46851	Apparently genuine.
.....	2.84	0.56	" "	46852	" "
.....	3.29	0.53	" "	46853	" "
.....	3.35	0.64	" "	46854	" "
.....	3.35	0.90	" "	46855	" "
.....	3.61	1.10	" "	46856	" "
.....	3.29	0.94	" "	46857	" "
.....	3.55	1.10	" "	46858	" "
.....	8.43	1.00	" "	46859	" "
.....	3.74	1.09	" "	46860	" "

ISLAND—

WM. A. WEEKS, INSPECTOR.

A. Farquharson
Co., Charlotte-
wn, P.E.I.

.....	4.05	0.92	No foreign tissues	46287	Apparently genuine.
.....	3.30	0.88	" "	46288	" "
.....	3.18	0.78	" "	46289	" "
.....	3.94	1.04	" "	46290	" "
.....	3.34	0.80	" "	46291	" "
.....	4.94	1.45	" "	46292	" "
.....	5.86	0.76	" "	46293	" "
.....	4.56	1.55	" "	46294	" "
.....	4.50	1.41	" "	46295	" "
.....	3.83	1.09	" "	46296	" "

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 NEW BRUNSWICK—

1912.							
Sept.	4	Ground Cassia.	50460	Dearborn & Co., St. John, N.B.	lb.	18	Vendors.....
"	4	"	50461	Puddington, Wetmore, Morrison, Ltd., St. John, N.B.	"	14	"
"	4	"	50462	J. E. Parbour, & Co., Ltd., St. John, N.B.	"	21	"
"	5	"	50463	H. W. Cole, Ltd., St. John, N.B.	"	18	"
"	5	"	50464	McCready & Son, Ltd., St. John, N.B.	"	15	"
"	5	"	50465	L. H. Thorne, St. John, N.B.	"	15	Vendor.....
"	25	"	50466	S. V. Skillen, St. Martins, N.B.	"	25	G. S. Parbour Co., Ltd., St. John, N.B.
Oct.	7	"	50467	Geo. T. Baird Co., Ltd., Perth, N.B.	"	24	Dearborn & Co., St. John, N.B.
"	16	"	50468	D. A. McBeath, Monteton, N.B.	"	30	F. P. Reid & Co., Monteton.
"	19	"	50469	A.C. Branch, Bathurst, N.B.	3pkgs.	24	Geo. S. De Forest & Sons, Ltd., St. John, N.B.

DISTRICT OF QUEBEC—

Sept.	4	Ground Cassia.	37231	O. Lacroix, 19 Rue St. Joseph, Quebec	lb.	30	Lemesurier & Son, Quebec.	J. B. Renaud & Cie.
"	6	"	37232	G. Gingras, 268 Rue de Roie, Quebec.	"	30	McLaren's Hamilton.	M'rs.....
"	11	"	37233	Myrand & Pouliot, 70 Rue de la Couronne, Quebec.	"	30	Unknown	Unknown..
"	18	"	37234	Alfred Boily, 38 Cote D'Abraham, Quebec.	"	30	Don. Flour Mills ...	Herron & Leblanc.
"	18	"	37235	J. A. Tremblay, 139 Rue Richelieu, Quebec.	"	30	Integrity Mills, Toronto.	J. B. Renaud....
"	19	"	37236	Jos. Bouteau, 37 Rue Sutherland, Quebec.	"	30	Unknown	N. Turcot et fils..
"	19	"	37237	Abel Turcot, 272 Rue St. Jean, Quebec.	"	30	"	Turcot et Freres...
"	23	"	37238	J. E. Giguere, 128 Rue du Pont, Quebec.	"	30	Nat. Coffee and Spice Co., Montreal.	M'rs.....
"	23	"	37239	M. W. Colman, 98 Rue du Pont, Quebec.	"	45	Unknown.....	S. Harnig, Montreal.
"	23	"	37240	L. F. Martel, 64 Rue du Pont, Quebec.	"	30	Lister Pure Food Co., Toronto.	M'rs.....

GROUND CASSIA.

Inspector's Report, (Is not an expression of opinion.)	Results of Analysis.			N ^o . of Sample	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.		

J. C. FERGUSON, INSPECTOR.

	p. c.	p. c.			
.....	3.60	1.00	Some dark coloured tissues; bark.	50460	Apparently genuine.
.....	7.56	3.62	No foreign tissues.....	50461	Total and insoluble ash high.
.....	5.01	1.30	" "	50462	Apparently high.
.....	4.56	0.81	" "	50463	" "
.....	3.52	0.13	" "	50464	" "
.....	2.56	0.20	" " Large propor- tion of starch.	50465	" "
" Acorn " Brand.	5.80	1.92	No foreign tissues.....	50466	" "
.....	3.83	0.32	" "	50467	" "
" Pyramid " Brand.	7.20	3.02	" "	50468	Total and insoluble ash high.
" Honeysuckle " Brand	10.06	5.75	" "	50469	" "

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

	p. c.	p. c.			
.....	2.24	0.09	No foreign tissues. Large pro- portion of starch. (Sample very coarsely ground).	37231	Apparently genuine.
.....	3.60	0.56	No foreign tissues.....	37232	" "
.....	4.30	2.17	This sample is allspice.....	37233	Allspice— by mistake.
.....	6.98	2.51	No foreign tissues.....	37234	Total and insoluble ash high.
.....	6.61	2.91	" "	37235	" "
.....	7.59	3.16	" "	37236	" "
.....	2.88	0.54	A considerable quantity of for- eign, woody and bark tissues.	37237	Doubtful.
.....	6.41	1.87	No foreign tissues; appears to be full of dust.	37238	Total ash high.
.....	7.17	1.87	" " "	37239	" " doubtful.
.....	5.18	1.83	" " "	37240	Doubtful.

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 ST. HYACINTHE—

1912.							
Sept.	16	Ground Cassia.	1476 A. Miquette, St. Pie de Guire.	$\frac{3}{4}$ lb.	15	.....	Cartier & Laramie, St. Francois du Lac.
"	25	"	1477 D. H. Conner, Bedford.	$\frac{3}{4}$ "	20	Unknown	Unknown
"	26	"	1478 A. E. Selby, Dunham.	3 tins.	30	.....	Mathewsons Sons, Montreal.
"	26	"	1479 J. A. McLaughlin, Cowansville.	$\frac{3}{4}$ lb.	22	Pure Gold Mfg. Co., Toronto.	.....
Oct.	1	"	1480 Hubert & Fortier, Sherbrooke East.	$\frac{3}{4}$ "	30	The F. F. Dsiley Co., Hamilton.	.....
"	2	"	1481 J. O. McDonald, Me. gantic.	3 tins.	30	White Swan S. & C. Co., Toronto.	.....
"	3	"	1482 Lovell Bros., Coast-cook.	$\frac{3}{4}$ "	24	Herron Leblanc, Montreal.	.....
"	3	"	1483 Gosselin & Paradis, Magog.	$\frac{3}{4}$ lb.	30	.....	E. Paradis, Magog.
"	10	"	1484 J. Laundry & Cie, Sherbrooke.	$\frac{3}{4}$ "	30	Herron Leblanc, Montreal.	.....
"	14	"	1485 E. Lafrance, St. Hyacinthe.	$\frac{3}{4}$ "	19	J. V. Boudrias, Montreal.	.....

DISTRICT OF MONTREAL—

Oct.	7	Ground Cassia.	51011 W. Biltcliffe, 350 Vict. Ave., Westmount.	$\frac{3}{4}$ lb.	30	.....	.....
"	10	"	51012 Deschenes & Picard, Joliette, P.Q.	$\frac{3}{4}$ "	30	.....	.....
"	16	"	51013 A. E. Esnat, 141 Villeneuve St. West, Montreal.	$\frac{3}{4}$ "	30	.....	.....
"	16	"	51014 Z. Lapointe, 54 Villeneuve St. W., Montreal.	$\frac{3}{4}$ "	30	.....	.....
"	17	"	51015 John Smail, Huntingdon, P.Q.	3 tins.	30	F. F. Dalley Co., Ltd.	.....
"	17	"	51016 Pringle, Stark & Co., Huntingdon, P.Q.	$\frac{3}{4}$ lb.	30	.....	.....
"	17	"	51017 Geo. Dixon, Huntingdon, P.Q.	$\frac{3}{4}$ "	27	.....	.....
"	18	"	51018 P. Elliott, 276 Ontario st. W., Montreal.	$\frac{3}{4}$ "	30	.....	.....
"	18	"	51019 P. Elliott, 276 Ontario st. W., Montreal.	3 tins.	30	Lister Pure Food Co.	.....
"	18	"	51020 T. A. Wood & Co., 536 Aylmer, W., Montreal.	$\frac{3}{4}$ lb.	30	S. H. Ewing & Sons.	.....

GROUND CASSIA.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.			Microscopical Examination.

J. C. ROULEAU, INSPECTOR.

	p. c.	p. c.			
.....	4.36	1.36	Contains a small amount of foreign starch and fibres, apparently pea starch.	1476	Doubtful
.....	4.02	0.20	No foreign tissues	1477	Apparently genuine.
.....	2.42	0.66	" " Large pro- portion of starch.	1478	"
.....	3.60	1.24	No foreign tissues.....	1479	"
.....	5.36	1.46	"	1480	"
.....	4.58	1.94	"	1481	"
.....	4.49	0.55	"	1482	"
.....	3.32	0.46	"	1483	"
.....	6.34	3.09	Some dark colored tissues of outer bark.	1484	Total and insoluble ash high.
.....	3.84	0.40	Contains small amount of for- eign starch and fibres, appar- ently pea starch.	1485	Doubtful.

J. J. COSTIGAN, INSPECTOR.

.....	6.15	0.91	Turmeric and other foreign tissues present.	51011	Total ash high. Doubtful
"Imperial" Brand....	9.48	3.00	No foreign tissues. (Looks dusty).	51012	Total and insoluble, ash high.
.....	8.58	4.16	No foreign tissues.....	51013	" "
.....	7.63	3.64	"	51014	" "
.....	5.27	1.69	"	51015	Apparently genuine.
"White Swan" Brand.	3.42	0.86	"	51016	"
.....	4.87	0.17	This sample is apparently cloves.	51017	Cloves—by mistake.
.....	2.82	0.81	Maize starch present and some foreign tissues.	51018	Adulterated.
.....	8.63	4.58	No foreign tissues.....	51019	Total and insoluble ash high.
.....	9.39	4.70	"	51020	" "

BULLETIN No. 251—

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 OTTAWA—							
1912.							
Aug. 31	Ground Cassia.	50271	H. M. Shaw, Perth, Ont.	3 lb.	30	The Hamilton Coffee & Spice Co. Hamilton.	Manufacturers....
Sept. 4	"	50272	A. S. Moreland, Ottawa, awa.	3 tins.	15	C. H. Cochrane & Co., Ottawa.	"
" 4	"	50273	H. A. McCogg, Ottawa	3 "	30	Unknown.	F. J. Castle Co., Ottawa.
" 5	"	50274	Jules Gratton, Hull, P. Q.	3 lb.	30	C. H. Cochrane & Co., Ottawa.	Manufacturers....
" 7	"	50275	Jas. H. Bradley, Prescott.	3 "	30	J. M. Lowes & Co., Toronto.	"
" 7	"	50276	C. Whitney & Son, Prescott.	3 "	30	McLarens's, Ltd., Hamilton.	"
" 12	"	50277	Geo. H. Hall & Co., Ottawa.	3 "	30	C. H. Cochrane & Co., Ottawa.	"
" 18	"	50278	Wm. Cusick, Merrickville.	3 "	30	Unknown.	Unknown.....
" 18	"	50279	E. H. Tallman, Merrickville.	3 "	30	"	"
" 18	"	50280	Miss M. McGill, Merrickville.	3 "	30	"	"
DISTRICT OF KINGSTON—							
Sept. 9	Ground Cassia.	50771	H. C. Hampton, Belleville.	3 lb.	30	.....	.....
" 10	"	50772	S. P. Harvey & Son, Cobourg.	3 "	30	.....	Todhunter & Mitchell.
DISTRICT OF TORONTO—							
Sept. 13	Ground Cassia.	51461	Foster & Swift, Pope & Gerrard sts., Toronto	3 lb.	30	.....	Unknown.....
" 13	"	51462	J. A. Jeffery, 1025 Gerrard st. east, Toronto	3 "	30	.....	.....
" 16	"	51463	Chas. Harlock, 1961 Queen st. east, Toronto.	3 "	25	.....	.....
" 16	"	51464	Heck Bros., 585 King st. west, Toronto.	3 "	27	.....	J. M. Lowes Co., Ltd., Toronto.
" 16	"	51465	J. A. Macdonald, King & Spencer sts., Toronto.	3 "	30	.....	Eby, Blain, Ltd., Toronto.
" 17	"	51466	A. M. Hough, 1666 Queen st. west, Toronto.	3 "	25	.....	Todhunter, Mitchell & Co., Toronto.
" 17	"	51467	H. Woods, 1614 Queen st. west, Toronto.	3 "	30	.....	Lister Pure Food Co., Ltd., Toronto.
" 20	"	51468	W. C. Howard, Newmarket.	3 "	30	.....	Dalton Bros., Toronto.

GROUND CASSIA.

Inspector's Report (Is not an expression of opinion).	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.		

J. A. RICKEY, INSPECTOR.

	p. c.	p. c.			
.....	3.93	0.56	No foreign tissues.....	50271	Apparently genuine.
.....	2.05	0.06	" large propor- tion of starch.	50272	"
.....	3.80	0.82	No foreign tissues.....	50273	"
.....	2.93	0.54	"	50274	"
.....	3.37	0.66	"	50275	"
.....	4.60	1.07	"	50276	"
.....	2.66	0.35	"	50277	"
.....	3.54	0.86	"	50278	"
.....	2.13	0.14	" large propor- tion of starch.	50279	"
.....	2.25	0.12	No foreign tissues.....	50280	"

JAS. HOGAN, INSPECTOR.

.....	4.25	0.34	Consists of wheat, ginger, all- spice, and maize starches. Clove stems allspice tissues, etc. has some smell and flavor of cloves (but flavor mostly just woody).	50771	Adulterated.
.....	3.76	1.16	No foreign tissues.....	50772	Apparently genuine.

H. J. DAGER, INSPECTOR.

.....	3.55	0.80	No foreign tissues.....	51461	Apparently genuine.
.....	3.57	1.09	"	51462	"
.....	2.67	0.52	Contains maize starch, and some foreign tissues.	51463	Adulterated.
.....	3.40	0.84	No foreign tissues.....	51464	Apparently genuine.
.....	3.17	0.15	"	51465	"
.....	4.37	1.63	"	51466	"
.....	6.06	2.47	"	51467	Insoluble ash high.
.....	3.78	1.16	"	51468	Apparently 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	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF TORONTO—

1912.							
Oct.	1	Ground Cassia.	51469 H. B. Clement, Burlington.	3	lb.	23	Lumsden Co., Hamilton.
"	1	"	51470 H. C. Davis, Dundas.	3	"	30	Geo. E. Bristol & Co., Hamilton.

DISTRICT OF WINDSOR—

Oct.	2	Ground Cassia.	48148 R. Stirret Co., Petrolia.	3	"	30	Unknown	Unknown
"	2	"	48153 J. E. Anderson, Wyoming.	3	"	30	F. F. Dalley Co., Hamilton.	
"	3	"	48161 R. Wanless & Co., Sarnia.	3	"	30	Todhunter & Mitchell, Hamilton.	
"	7	"	48177 Oscar R. Hauselman, Simcoe.	2	"	30	White Swan S. & Co., Toronto.	
"	7	"	48181 L. F. Aiken, Simcoe.	3	"	45	McLarens Ltd., Hamilton.	
"	7	"	48183 G. O. Werrett, Simcoe.	3	"	45	"	
"	8	"	48185 Ray G. Colburn, Tillsonburg.	3	"	30		Geo. Watt & Son, Brantford.
"	8	"	48192 R. M. Teall, Tillsonburg.	3	"	30		T. B. Escott Co., London.

DISTRICT OF MANITOBA—

Sept.	20	Ground Cassia.	48700 The Gold Standard Mfg. Co., Winnipeg.	3	lb.	Nil.	Vendors	
"	17	"	48721 J. E. Manning, Sargent Ave., Winnipeg.	3	"	30	McLarens, Ltd., Hamilton.	Unknown
"	17	"	48722 R. Seymour, Winnipeg.	3	"	30	Unknown	"
"	17	"	48723 MacKenzie & Reeve, Winnipeg.	3	"	30	Todhunter, Mitchell Co., Toronto.	"
"	17	"	48724 " " "	3	"	30	McLarens, Ltd., Hamilton.	
"	18	"	48725 B. Arnason, Sargent Ave., Winnipeg.	3	"	30	Campbell Bros. & Wilson, Winnipeg.	Mfrs
"	18	"	48726 C. Corneil, Langside St., Winnipeg.	3	"	30	Unknown	Unknown
"	18	"	48727 W. S. Simpson, Sargent Ave., Winnipeg.	3	"	30	Gold Standard Mfg. Co., Winnipeg.	Mfrs
"	20	"	48728 Campbell Bros. & Wilson, Winnipeg.	3	tins.	Nil.	Vendors	
"	20	"	48729 The Dyson Co., Winnipeg.	3	lb.	"	"	
"	20	"	48730 The White Star Mfg. Co., Winnipeg.	3	tins.	"	"	

GROUND CASSIA.

Inspector's Report (Is not an expression of Opinion).	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.		

Concluded.

	p. c.	p. c.			
.....	4.27	0.51	No foreign tissues.....	51469	Apparently genuine.
.....	3.26	0.24	"	51470	"

JNO. TALBOT, INSPECTOR.

.....	3.39	0.56	No foreign tissues.....	48148	Apparently genuine.
Labelled Dalley's Pure Ground Cassia.	3.87	0.84	"	48153	"
Labelled Todhunter's Pure Select Cassia.	3.38	0.81	"	48161	"
.....	4.03	1.05	"	48177	"
.....	4.04	0.69	"	48181	"
.....	4.02	0.63	"	48183	"
.....	3.56	0.66	"	48185	"
.....	3.40	0.12	"	48192	"

A. C. LARIVIERE, INSPECTOR.

.....	3.66	0.94	No foreign tissues.....	48700	Apparently genuine.
.....	4.80	1.22	"	48721	"
.....	3.60	1.19	"	48722	"
.....	3.97	1.20	"	48723	"
.....	3.95	0.62	"	48724	"
"Royal Shield"	3.03	0.60	"	48725	"
.....	2.72	0.60	Contains a large amount of wheat and maize starches, cocoanut shells, &c.	48726	Adulterated.
.....	4.43	1.32	No foreign tissues.....	48727	Apparently genuine.
"Royal Shield"	3.54	0.90	"	48728	"
.....	3.36	0.56	"	48729	"
.....	4.16	1.06	"	48730	"

BULLETIN No. 251—

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 NELSON—

1912.							
Sept.	6	Ground Cassia.....	49711	Merritt Merc. Co., Merritt, B.C.	3 tins.	30	Balfour & Co., Ham- ilton.
"	9	" ..	49726	Bourne Bros., Revel stoke, B.C.	3 "	45	Pure Gold Mfg. Co., Toronto.
"	23	" ..	49747	C. A. Warren, Golden B. C.	3 "	30	Campbell Bros. & Wil- son, Winnipeg.
"	23	" ..	49754	H. G. Parson, Ltd., Golden, B. C.	3 "	30	Georgeson & Co., Cal- gary.
"	23	" ..	49766	Rolston & Mitchell, Golden, B. C.	3 "	30	Campbell Bros. & Wil- son, Winnipeg.
"	24	" ..	49770	Field Trading Co., Field, B. C.	3 "	40	" ..
Oct.	1	" ..	49784	Citizen's Co-op. Assoc. Nelson, B. C.	3 "	30	Georgeson & Co., Calgary.

DISTRICT OF VANCOUVER—

Sept.	20	Ground Cassia....	38409	McDonald & Co., Granville St., Van- couver, B. C.	3 tins.	30	Shilling Ltd., San Francisco, Cal.
"	20	" ..	38410	Walford & Roney..... Vancouver, B. C.	3 "	30	Wm. Braid & Co., Vancouver.

DISTRICT OF VICTORIA—

Oct.	15	Ground Cassia....	49198	W. A. Jameson Coffee Co., 754 Broughton St., Victoria, B. C.	2 lb..	80	.....	Dunn & Co., Ham- ilton.
"	19	" ..	49199	Pioneer Coffee & Spice Mills, 641 Pembroke St., Victoria, B. C.	2 "	30	Vendors ..	.....

GROUND CASSIA.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.		

THOS. PARKER, INSPECTOR.

	p. c.	p. c.			
.....	4.28	1.37	No foreign tissues.....	49711	Apparently genuine.
.....	3.61	0.51	" "	49726	" "
"Royal Shield"	3.05	0.55	" "	49747	" "
"Tuxedo"	3.08	0.34	" "	49754	" "
"Royal Shield"	2.81	0.45	" "	49766	" "
" "	3.10	0.64	" "	49770	" "
.....	2.06	0.61	" "	49781	" "

J. F. POWER, INSPECTOR.

Labelled "Cinnamon Saigon Cassia." Sold as Cassia.	3.84	0.10	No foreign tissues.....	38409	Apparently genuine.
Labelled Cinnamon. Sold as Cassia. Declared to be no difference between the two spices.	2.94	0.14	" "	38410	" "

D. O'SULLIVAN, INSPECTOR

.....	3.24	0.56	No foreign tissues... ..	49198	Apparently genuine.
.....	3.29	0.87	" "	49199	" "

