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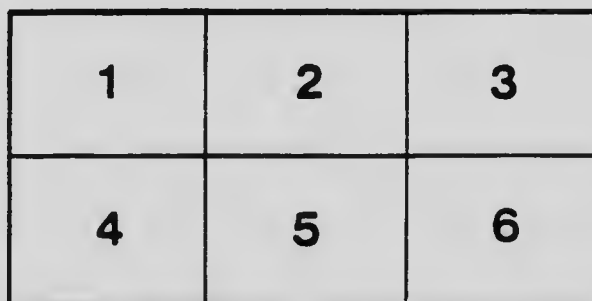
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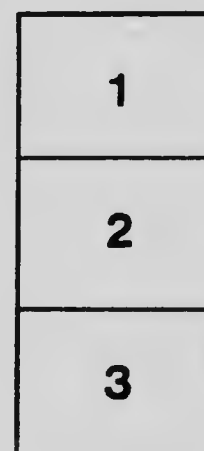
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LABORATORY  
OF THE  
INLAND REVENUE DEPARTMENT  
OTTAWA, CANADA.

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BULLETIN No. 358

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CASSIA

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### 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 a 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 the notes will be numbered in series.

A. MCGILL,  
*Chief Analyst.*

LABORATORY  
OF THE  
INLAND REVENUE DEPARTMENT  
OTTAWA, CANADA.

BULLETIN No. 358

CASSIA

OTTAWA, December 6, 1916.

J. U. VINCENT, Esq.,  
Deputy Minister of Inland Revenue,

SIR,—I beg to hand you a report upon 143 samples purchased throughout Canada by our inspectors, as Cassia.

This spice, which finds extensive sale in Canada, has never been legally defined in such a way as to fix limiting values, and to enable us to declare its genuineness or otherwise.

Cassia closely resembles the spice known as Cinnamon, and indeed may be regarded as indistinguishable from the latter, so far as retail spice trade is concerned.

Cinnamon and Cassia are the dry barks of trees which belong to the same botanic 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 is known as Cannelle, which means cinnamon as distinguished from cassia, to which belongs the term Casse, seldom mentioned except as a drug.

From an interesting paper on the subject, by H. E. Sindall, Chemist to the Meikel and Smith Spice Co. of Philadelphia (*Journal Industrial and Engineering Chemistry*, 1912, 590) it appears that the classification of the article as Cinnamon or Cassia in commerce depends as much upon its source as upon its chemical or physical properties.

The British Pharmacopoeia defines Cinnamon bark (*Cinnamomi cortex*) which is required to be free from cork or woody tissues, and to contain not more than 5 per cent ash; but Cassia is not defined by the pharmacopoeias.

So far as our experience goes, true Cinnamon, in the restricted sense, is but little if at all employed as a spice, in the ground condition.

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 species and contains not more than six (6) per cent of total ash, and not more than two (2) per cent of sand.

It will be noted that ground Cinnamon and ground Cassia are virtually recognized as identical; and this is in accord with actual experience.

The flavour of true cinnamon is usually understood to be somewhat more delicate than that of Cassia; but on careful examination of the matter I am of opinion that the distinction has no value for purposes of a definition.

According to accessible literature, the article shipped as Cassia from China, Ceylon, Batavia and other sources, varies greatly in cleanliness; and it would seem that determination of the ash furnishes the most valuable datum in this regard. The total ash in a large number of samples reported by Sindall (*Journal Industrial and Eng. Chemistry* 1912, 590), representing extensive importations for the years 1906 to 1911, varied from about 3 per cent to about 13 per cent. The last quoted figure is however quite exceptional, and very few samples exceeded 7 per cent.

Six per cent appears to be a very reasonable maximum figure for a good article; and I have noted "ash excessive" in samples now reported, wherever the total ash exceeds 6 per cent or the insoluble ash (sand) exceeds 2 per cent.

Twenty two (22) samples show ash in excess of the suggested standard.

I beg to recommend publication of this report as Bulletin No. 358.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,  
Chief Analyst.

## BULLETIN No 358 —

| 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—

|         |            |       |                                    |                    |    |                                     |            |
|---------|------------|-------|------------------------------------|--------------------|----|-------------------------------------|------------|
| 1915.   |            |       |                                    |                    |    |                                     |            |
| Dec. 29 | Cassia.... | 69859 | A. J. Roop, New Glasgow..          | $\frac{1}{2}$ lb.. | 40 | Gorman, Eckert Co., London.         | Mfrs ..... |
| " 29    | " .....    | 69860 | S. M. Lockhart & Co., New Glasgow. | $\frac{1}{2}$ " .. | 30 | " " ..                              | " .....    |
| " 29    | " .....    | 69861 | James Cavanagh, New Glasgow.       | $\frac{1}{2}$ " .. | 30 | Todhunter, Mitchell & Co., Toronto. | " .....    |
| " 30    | " .....    | 69862 | C. A. Fraser & Co., Stellarton.    | $\frac{1}{2}$ " .. | 30 | G. E. Barbour Co., St. John.        | " .....    |

## DISTRICT OF PRINCE EDWARD ISLAND—

|         |            |       |                                |                    |    |                                    |                                   |
|---------|------------|-------|--------------------------------|--------------------|----|------------------------------------|-----------------------------------|
| Dec. 14 | Cassia.... | 60445 | Coffin & Co., Charlottetown.   | $\frac{1}{2}$ lb.. | 30 | G. E. Barbour Co., St. John.       | .....                             |
| " 17    | " .....    | 60446 | Beer & Goff, Charlottetown.    | $\frac{1}{2}$ " .. | 30 | W. H. Schwartz & Son, Halifax.     | .....                             |
| " 17    | " .....    | 60447 | W. W. Walker, Charlottetown.   | $\frac{1}{2}$ " .. | 30 | The Lister Pure Food Co., Toronto. | .....                             |
| " 17    | " .....    | 60448 | J. G. Passmore, Charlottetown. | $\frac{1}{2}$ " .. | 30 | .....                              | J. A. Farquharson, Charlottetown. |

## DISTRICT OF NEW BRUNSWICK—

|         |            |       |                                           |        |    |                               |       |
|---------|------------|-------|-------------------------------------------|--------|----|-------------------------------|-------|
| Dec. 13 | Cassia.... | 66263 | W. A. Simonds, St. John ..                | 3 pkt. | 30 | Pure Gold Mfg. Co., Toronto.  | ..... |
| " 13    | " .....    | 66264 | Dearborn & Co., Ltd., St. John.           | 3 " .. | 25 | Vendors .....                 | ..... |
| " 23    | " .....    | 66265 | Baird & Peters, St. John...               | 3 " .. | 17 | Dearborn & Co., St. John.     | ..... |
| " 23    | " .....    | 66266 | Puddington, Wetmore & Morrison, St. John. | 3 " .. | 15 | Vendors .....                 | ..... |
| " 28    | " .....    | 66267 | McCready & Sons, Ltd., St. John.          | 3 " .. | 30 | " .....                       | ..... |
| " 29    | " .....    | 66268 | G. E. Barbour Co., Ltd., St. John.        | 3 " .. | 15 | " .....                       | ..... |
| 1916.   |            |       |                                           |        |    |                               |       |
| Feb. 9  | " .....    | 66269 | Reed & Co., Ltd., Moncton.                | 3 " .. | 30 | S. H. Ewing & Sons, Montreal. | ..... |
| " 9     | " .....    | 66270 | Sanitary Grocery Co., Moncton.            | 3 " .. | 30 | John P. Mott & Co., Halifax.  | ..... |

## DISTRICT OF NOVA SCOTIA—

|         |            |       |                                 |                    |    |                                 |            |
|---------|------------|-------|---------------------------------|--------------------|----|---------------------------------|------------|
| Feb. 18 | Cassia.... | 64341 | National Drug Co., Halifax.     | $\frac{1}{2}$ lb.. | 23 | Vendors.....                    | .....      |
| " 18    | " .....    | 64342 | John P. Mott & Co., Halifax.    | $\frac{1}{2}$ " .. | 23 | " .....                         | .....      |
| " 21    | " .....    | 64343 | Corkum & Rincey, Ltd., Halifax. | $\frac{1}{2}$ " .. | 21 | Dearborn & Co., St. John.       | Mfrs ..... |
| " 21    | " .....    | 64344 | J. L. Wilson & Co., Halifax.    | $\frac{1}{2}$ " .. | 30 | W. H. Schwartz & Sons, Halifax. | " .....    |
| " 23    | " .....    | 64345 | Wentzell's, Ltd., Halifax...    | $\frac{1}{2}$ " .. | 24 | White Swan Spice Co., Toronto.  | " .....    |

## CASSIA.

| Inspector's<br>Report. (Is not an<br>expression of<br>opinion.) | Results of Analysis. |                 |                            | No. of Sample. | Remarks<br>and Opinion of the<br>Chief Analyst. |
|-----------------------------------------------------------------|----------------------|-----------------|----------------------------|----------------|-------------------------------------------------|
|                                                                 | -----                |                 |                            |                |                                                 |
|                                                                 | Ash.                 |                 | Microscopical Examination. |                |                                                 |
|                                                                 | Total.               | Insol-<br>uble. |                            |                |                                                 |

## W. A. PETIPAS, TEMPORARY INSPECTOR.

|       | P. C. | P. C. |                               |       |
|-------|-------|-------|-------------------------------|-------|
| ..... | 2.20  | 0.10  | Some outer bark tissues ..... | 66859 |
| ..... | 3.80  | 0.10  | " " .....                     | 66860 |
| ..... | 1.50  | 0.05  | No foreign tissues .....      | 66861 |
| ..... | 5.77  | 0.80  | " .....                       | 66862 |

## WM. A. WEEKS, INSPECTOR.

|       | P. C. | P. C. |                            |       |
|-------|-------|-------|----------------------------|-------|
| ..... | 3.20  | 0.50  | No foreign tissues .....   | 60445 |
| ..... | 1.52  | 0.10  | " .....                    | 60446 |
| ..... | 3.97  | 1.05  | " .....                    | 60447 |
| ..... | 3.90  | 1.00  | Some outer bark tissues .. | 60448 |

## JOHN C. FERGUSON, INSPECTOR.

|       | P. C. | P. C. |                                         |       |                |
|-------|-------|-------|-----------------------------------------|-------|----------------|
| ..... | 3.20  | 0.90  | No foreign tissues .....                | 66265 |                |
| ..... | 6.45  | 2.60  | " Insoluble ash too high.               | 66264 | Ash excessive. |
| ..... | 1.82  | 0.07  | " .....                                 | 66265 |                |
| ..... | 6.93  | 3.77  | Excess woody tissue. Considerable sand. | 66266 | Ash excessive. |
| ..... | 2.10  | 0.05  | Some outer bark tissues ..              | 66267 |                |
| ..... | 7.50  | 4.10  | No foreign tissues. Ash high .....      | 66268 | Ash excessive. |
| ..... | 6.40  | 2.45  | " Insol. ash slightly high.             | 66269 | "              |
| ..... | 6.50  | 2.30  | " " ..                                  | 66270 | "              |

## R. J. WAUGH, INSPECTOR.

|       | P. C. | P. C. |                               |       |
|-------|-------|-------|-------------------------------|-------|
| ..... | 2.25  | 0.60  | Some outer bark tissues ..... | 64341 |
| ..... | 2.40  | 0.25  | No foreign tissues .....      | 64342 |
| ..... | 1.80  | 0.05  | " .....                       | 64343 |
| ..... | 1.85  | 0.00  | " .....                       | 64344 |
| ..... | 3.90  | 1.25  | " .....                       | 64345 |

## BULLETIN No. 358—

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of Vendor. | Cca.      |        | Name and Address of Manufacturer or Furnisher as given by the Vendor. |            |
|---------------------|-------------------|----------------|-----------------------------|-----------|--------|-----------------------------------------------------------------------|------------|
|                     |                   |                |                             | Quantity. | Cents. | Manufacturer.                                                         | Furnisher. |

## DISTRICT OF QUEBEC CITY—

|         |                 |       |                                                |       |    |          |                   |
|---------|-----------------|-------|------------------------------------------------|-------|----|----------|-------------------|
| 1915.   |                 |       |                                                |       |    |          |                   |
| Dec. 20 | Cannelle Moulu. | 56624 | J. B. Lapointe, 57 St. Ambroise, Quebec.       | 1 lb. | 30 | Unknown. | Turcotte Frère.   |
| " 20    | "               | 56625 | M. Côté, 79 St. Ambroise, Quebec.              | "     | 30 | "        | Unknown.          |
| " 20    | "               | 56626 | E. Delisle, 2 Ave. Taschereau, Quebec.         | "     | 30 | "        | "                 |
| " 20    | "               | 56628 | M. Tremblay, 8 St. Agnes, Quebec.              | "     | 30 | "        | Turcotte Frère.   |
| " 20    | "               | 56629 | Labbe Lamontagne, 46 Ave. Taschereau, Quebec.  | "     | 30 | "        | Unknown.          |
| " 20    | "               | 56630 | Mme. V. Pierre Darte, 139 Ave. Renaud, Quebec. | "     | 30 | "        | J. B. Renand Cie. |
| " 20    | "               | 56631 | George Trudel, 69 Ave. Bigaouette, Quebec.     | "     | 30 | "        | J. B. Letellier.  |
| " 23    | "               | 56642 | Arthur Thivierge, 368 St. Joseph, Quebec.      | "     | 30 | "        | Unknown.          |

## DISTRICT OF QUEBEC PROVINCE—J. E. AUDET, O. BROCHU

|         |                 |       |                              |         |    |                                |  |
|---------|-----------------|-------|------------------------------|---------|----|--------------------------------|--|
| Dec. 13 | Cannelle...     | 3642  | J. E. Fortier, St. Henri...  | 1 lb.   | 30 | N. Turcotte & Cie, Quebec.     |  |
| " 21    | "               | 3658  | O. Fradette, St. Narcisse... | "       | 30 | Quebec Preserving Co., Quebec. |  |
| " 24    | "               | 3668  | S. Fontaine, St. Isidore...  | "       | 35 | Carrier & Fils, Levis.         |  |
| " 13    | Cannelle moulu. | 4432  | Joseph Langlois, Armagh...   | "       | 24 | Dalton Bros., Toronto.         |  |
| " 13    | "               | 4434  | Cleophas Beaudoin, Armagh... | "       | 24 | A. B. Dupuis...                |  |
| " 22    | "               | 4447  | George Roy, St. Michel...    | 1 1/2 " | 60 | Turcotte Frère...              |  |
| " 24    | Cinnamon.       | 4460  | Arthur Fradette, Armagh...   | 3 pkg.  | 30 | N. Turcotte & Cie, Quebec.     |  |
| " 24    | Cannelle pure.  | 4465  | Adelard Brochu, "            | 1 lb.   | 30 | Turcotte Frère...              |  |
| " 23    | Cannelle...     | 72208 | Dame P. Richard, Berthier    | "       | 27 | Unknown...                     |  |
| " 28    | "               | 72222 | Pierre Morin, Cap St. Ignace | "       | 34 | Carrier & Fils, Levis.         |  |
| " 28    | "               | 72224 | Jos. Dubé, "                 | "       | 30 | Turcotte Frère, Quebec.        |  |
| " 29    | "               | 72229 | J. B. Poirier, St. Thomas... | "       | 30 | N. Rioux & Cie, Quebec.        |  |
| " 22    | "               | 4909  | Jos. O. Anbu, Bic...         | 1 1/2 " | 53 | Unknown...                     |  |
| " 22    | "               | 4918  | P. E. Danjous & Fils, Bic... | "       | 30 | J. V. Boudrais, Montreal.      |  |

## CASSIA.

| Inspector's<br>Report. (Is not an<br>expression of<br>opinion. | Results of Analysis. |                 |                            | No. of Sample. | Remarks<br>and Opinion of the<br>Chief Analyst. |
|----------------------------------------------------------------|----------------------|-----------------|----------------------------|----------------|-------------------------------------------------|
|                                                                | Ash.                 |                 | Microscopical Examination. |                |                                                 |
|                                                                | Total.               | Insol-<br>uble. |                            |                |                                                 |

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

|       | p. c.  | p. c.   |                                   |       |                |
|-------|--------|---------|-----------------------------------|-------|----------------|
| ..... | 8.02   | 3.88    | No foreign tissues.....           | 56624 | Ash excessive. |
| ..... | 3.80   | 0.76    | Considerable foreign tissues..... | 56625 |                |
| ..... | 6.24   | 0.35    | " " .....                         | 56626 | Ash excessive. |
| ..... | 7.87   | 3.73    | No foreign tissues .....          | 56628 | "              |
| ..... | 2.99   | 0.67    | " " .....                         | 56629 |                |
| ..... | 4.33   | 2.0     | " " .....                         | 56630 |                |
| ..... | Ground | Cloves. | .....                             | 56631 |                |
| ..... | 5.28   | 1.59    | No foreign tissues.....           | 56642 |                |

T. GENDREAU, A. PELLETIER AND N. CADIEUX, TEMPORARY INSPECTORS.

|       |      |      |                                      |       |                |
|-------|------|------|--------------------------------------|-------|----------------|
| ..... | 4.30 | 1.60 | Some outer bark tissues.....         | 3642  |                |
| ..... | 1.60 | 0.10 | No foreign tissues.....              | 3658  |                |
| ..... | 2.40 | 0.35 | " " .....                            | 3658  |                |
| ..... | 4.86 | 1.58 | " " .....                            | 4432  |                |
| ..... | 5.75 | 0.43 | " " .....                            | 4434  |                |
| ..... | 8.17 | 3.77 | " " .....                            | 4447  | Ash excessive. |
| ..... | 2.87 | 0.49 | " " .....                            | 4460  |                |
| ..... | 8.10 | 3.58 | " " .....                            | 4465  | Ash excessive. |
| ..... | 4.83 | 1.62 | " " .....                            | 72208 |                |
| ..... | 4.59 | 1.49 | " " .....                            | 72222 |                |
| ..... | 8.00 | 3.89 | " " .....                            | 72224 | Ash excessive. |
| ..... | 2.44 | 0.08 | " " .....                            | 72229 |                |
| ..... | 4.15 | 1.27 | Some outer bark tissues.....         | 4909  |                |
| ..... | 3.40 | 0.85 | No foreign tissues. Marked cinnamon. | 4918  |                |

## BULLETIN No. 358—

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

## DISTRICT OF QUEBEC PROVINCE—

|         |                 |      |                                                  |        |    |                             |                           |
|---------|-----------------|------|--------------------------------------------------|--------|----|-----------------------------|---------------------------|
| 1915.   |                 |      |                                                  |        |    |                             |                           |
| Dec. 23 | Cannelie..      | 4923 | Gagnon & Belzile, St. Fahien.                    | 3 pkt. | 30 | .....                       | Gagnon & Garsant, Quebec. |
| " 23    | "               | 4926 | Pelletier & Belanger, St. Fahien.                | 2 lh.  | 30 | .....                       | N. Rioux, Quebec.         |
| " 16    | Cannelle Moulu. | 340  | Tancrede Lapointe, St. Jerome.                   | 2 "    | 30 | Hudon Hebert, Montreal.     | .....                     |
| " 26    | "               | 362  | Mde. F. D. Hall, St. Agathe des Mont.            | 2 "    | 30 | Birks Corner Co., Montreal. | .....                     |
| 1916.   |                 |      |                                                  |        |    |                             |                           |
| Jan. 7  | "               | 374  | M. A. Geronx, St. Augustin, Deux Montagnes.      | 2 "    | 30 | .....                       | Hudon & Orsali.           |
| " 7     | "               | 375  | Belair & Paquette, St. Eustache, Deux Montagnes. | 2 "    | 30 | .....                       | Lapoint & Martin.         |

## DISTRICT OF THREE RIVERS—

|         |             |       |                               |         |    |       |                               |
|---------|-------------|-------|-------------------------------|---------|----|-------|-------------------------------|
| 1915.   |             |       |                               |         |    |       |                               |
| Dec. 13 | Cassia...   | 69186 | Wm. Perrault, Joliette...     | 2 lh.   | 38 | ..... | Magnan Chevalier, Joliette.   |
| " 16    | "           | 69195 | J. P. A. Boucher, St. Damien. | 2 "     | 21 | ..... | Chevalier Poulriot, Joliette. |
| " 17    | "           | 69201 | Arcade Brault, St. Melanie    | 2 "     | 30 | ..... | Magnan Chevalier, Joliette.   |
| " 18    | Cannelle... | 69205 | E. Laurion, L'Epiphanie...    | 1 1/2 " | 68 | ..... | Lacaille Gendreau, Montreal   |

## DISTRICT OF EASTERN TOWNSHIPS—

|        |           |       |                            |         |    |                                |                                    |
|--------|-----------|-------|----------------------------|---------|----|--------------------------------|------------------------------------|
| 1916.  |           |       |                            |         |    |                                |                                    |
| Feb. 1 | Cassia... | 67514 | Adelard Roy, Sherbrooke... | 3 pkts. | 30 | F. F. Dalley Co. ....          | .....                              |
| " 1    | "         | 67515 | U. Brien, Sherbrooke       | 2 lh.   | 30 | .....                          | .....                              |
| " 1    | "         | 67516 | Joseph Landry              | 2 "     | 30 | Nat. Coffee & Spice Co.        | .....                              |
| " 1    | "         | 67517 | A. E. Beaudoin, Sherbrooke | 3 pkts. | 45 | .....                          | .....                              |
| " 1    | "         | 67518 | J. R. Robert, Sherbrooke   | 2 lb.   | 30 | .....                          | .....                              |
| " 1    | "         | 67519 | J. Andet, Coaticook        | 2 "     | 30 | .....                          | Hudon Hebert Cie, Ltd.             |
| " 1    | "         | 67520 | L. S. Durand, Coaticook    | 3 pkts. | 30 | S. H. & A. S. Ewing, Montreal. | .....                              |
| " 3    | "         | 67521 | W. W. Emery, Sherbrooke    | 3 "     | 30 | .....                          | Deneault, G. & P. Co., Sherbrooke. |

## CASSIA.

| Inspector's<br>Report. (Is not<br>an expression<br>of opinion.) | Results of Analysis. |                 |                            | No. of Sample. | Remarks<br>and Opinion of the<br>Chief Analyst. |
|-----------------------------------------------------------------|----------------------|-----------------|----------------------------|----------------|-------------------------------------------------|
|                                                                 | Ash.                 |                 | Microscopical Examination. |                |                                                 |
|                                                                 | Total.               | Insol-<br>uble. |                            |                |                                                 |

*Concluded.*

|       | p. c. | p. c. |                                   |      |                |
|-------|-------|-------|-----------------------------------|------|----------------|
| ..... | 3.50  | 1.25  | No foreign tissues.....           | 4923 |                |
| ..... | 1.60  | 0.10  | " ".....                          | 4926 |                |
| ..... | 6.26  | 0.43  | Considerable foreign tissues..... | 340  | Ash excessive. |
| ..... | 6.42  | 0.85  | A little foreign tissues.....     | 362  | "              |
| ..... | 3.28  | 0.86  | No foreign tissues. . . . .       | 374  |                |
| ..... | 5.60  | 0.50  | " ".....                          | 375  |                |

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

| ..... | 5.17 | 1.52 | No foreign tissues.....           | 69186 |                |
|-------|------|------|-----------------------------------|-------|----------------|
| ..... | 4.45 | 1.03 | " ".....                          | 69196 |                |
| ..... | 6.86 | 2.95 | " ".....                          | 69201 | Ash excessive. |
| ..... | 3.45 | 0.47 | Considerable foreign tissues..... | 69206 |                |

## J. J. COSTIGAN, ACTING INSPECTOR.

| .....           | 4.58  | 1.07 | No foreign tissues.....           | 67514 |                |
|-----------------|-------|------|-----------------------------------|-------|----------------|
| .....           | 5.98  | 1.66 | " ".....                          | 67515 |                |
| .....           | 5.35  | 0.85 | " ".....                          | 67516 |                |
| Key Brand. .... | 5.43  | 1.66 | " ".....                          | 67517 |                |
| .....           | 5.11  | 1.56 | " ".....                          | 67518 |                |
| .....           | 5.83  | 0.49 | Considerable foreign tissues..... | 67519 |                |
| .....           | 10.57 | 6.81 | No foreign tissues.....           | 67520 | Ash excessive. |
| .....           | 7.30  | 2.20 | " ".....                          | 67521 | "              |

## BULLETIN No. 358—

| 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. | Manufactnrer.                                                         | Furnisher. |

## DISTRICT OF MONTREAL—

|       |    |            |                                                      |                    |    |       |                    |
|-------|----|------------|------------------------------------------------------|--------------------|----|-------|--------------------|
| 1916. |    |            |                                                      |                    |    |       |                    |
| Feb.  | 8  | Cassia ... | 67261 D. Hadden, 1 Rushbrooke St., Montreal.         | 6pkgs.             | 30 | ..... | Herron & Le Blanc. |
| "     | 8  | " ....     | 67262 P. Blais, 288 Liverpool St., Montreal.         | $\frac{1}{2}$ lb.. | 30 | ..... | J. V. Boudrias..   |
| "     | 9  | " ....     | 67263 A. O. Galerneau, 624 Wellington St., Montreal. | $\frac{1}{2}$ " .. | 30 | ..... | Herron & Le Blanc. |
| "     | 9  | " ....     | 67264 D. McGillvray, 308 Charron St., Montreal.      | $\frac{1}{2}$ " .. | 30 | ..... | J. V. Boudrias..   |
| "     | 9  | " ....     | 67265 T. K. Stone, 627 Wellington St., Montreal.     | $\frac{1}{2}$ " .. | 30 | ..... | Herron & Le Blanc. |
| "     | 10 | " ....     | 67266 A. Beaulieu, 33 Favard St., Montreal.          | $\frac{1}{2}$ " .. | 33 | ..... | " "                |
| "     | 19 | " ....     | 67267 Edward Upton, 358 Bourgeois St., Montreal.     | $\frac{1}{2}$ " .. | 30 | ..... | Hudon, Hebert..    |
| "     | 10 | " ....     | 67268 W. J. Roberts, 949 Wellington St., Verdun.     | $\frac{1}{2}$ " .. | 23 | ..... | Wm. Galbraith.     |

## DISTRICT OF VALLEYFIELD—

|      |    |            |                                            |                    |    |                        |                                    |
|------|----|------------|--------------------------------------------|--------------------|----|------------------------|------------------------------------|
| Jan. | 4  | Cassia.... | 62953 J. E. Leduc, Alexandria.             | $\frac{1}{2}$ " .. | 30 | .....                  | Hudon, Hebert Co., Ltd., Montreal. |
| "    | 4  | " ....     | 62954 Joseph Sabourin, Alexandria.         | $\frac{1}{2}$ " .. | 30 | Dalton Bros., Toronto. | .....                              |
| "    | 12 | " ....     | 62955 A. R. Bison, Valleyfield....         | $\frac{1}{2}$ " .. | 30 | .....                  | .....                              |
| "    | 15 | " ....     | 62956 D. Seward, Hawkesbury....            | $\frac{1}{2}$ " .. | 24 | F. J. Castle Co....    | .....                              |
| "    | 20 | " ....     | 62957 W. J. Martin, Buckingham.            | $\frac{1}{2}$ " .. | 30 | Pure Gold Co., Ltd.    | .....                              |
| "    | 20 | " ..       | 62958 Tourrangeau & Champagne, Buckingham. | $\frac{1}{2}$ " .. | 30 | .....                  | .....                              |
| "    | 26 | " ....     | 62959 A. Brien, Chambly Basin...           | 3pkts.             | 30 | Litater Pure Food Co.  | .....                              |
| "    | 26 | " ....     | 62960 Joseph Pelletier, Chambly Basin.     | $\frac{1}{2}$ " .. | 30 | .....                  | .....                              |

## DISTRICT OF OTTAWA—

|       |    |                |                                    |                    |    |                        |                         |
|-------|----|----------------|------------------------------------|--------------------|----|------------------------|-------------------------|
| 1915. |    |                |                                    |                    |    |                        |                         |
| Dec.  | 7  | Ground Cassia. | 70552 A. M. Parkinson, Kemptville. | $\frac{1}{2}$ lb.. | 30 | Dalton Bros., Toronto. | .....                   |
| "     | 8  | " ..           | 70558 Wm. Jenkins, Carleton Place. | $\frac{1}{2}$ " .. | 30 | Unknown....            | .....                   |
| "     | 11 | " ..           | 70573 C. S. Colquhoun, Morrisburg. | $\frac{1}{2}$ " .. | 25 | " .....                | .....                   |
| "     | 14 | " ..           | 70582 A. E. Thoms, Arnprior....    | $\frac{1}{2}$ " .. | 30 | Dalton Bros., Toronto. | Forbes & Co., Arnprior. |

## CASSIA.

| Inspector's<br>Report. (Is not an<br>expression of<br>opinion. | Results of Analysis. |                 |                            | No. of Sample. | Remarks<br>and Opinion of the<br>Chief Analyst. |
|----------------------------------------------------------------|----------------------|-----------------|----------------------------|----------------|-------------------------------------------------|
|                                                                | Ash.                 |                 | Microscopical Examination. |                |                                                 |
|                                                                | Total.               | Insol-<br>uble. |                            |                |                                                 |

## D. J. KEARNEY, INSPECTOR.

|       | p.c. | p.c. |                                   |       |                |
|-------|------|------|-----------------------------------|-------|----------------|
| ..... | 6.12 | 0.57 | Considerable foreign tissues..... | 67261 | Ash excessive. |
| ..... | 3.64 | 0.81 | No foreign tissues.....           | 67262 |                |
| ..... | 5.94 | 0.36 | Considerable foreign tissues..... | 67263 |                |
| ..... | 3.58 | 0.85 | No foreign tissues.....           | 67264 |                |
| ..... | 5.67 | 0.53 | " ".....                          | 57265 | Ash excessive. |
| ..... | 6.08 | 0.44 | Considerable foreign tissues..... | 67266 | Ash excessive. |
| ..... | 6.01 | 0.44 | " ".....                          | 67267 |                |
| ..... | 5.82 | 0.43 | " ".....                          | 67268 |                |

## J. J. COSTIGAN, ACTING INSPECTOR.

|       | p.c. | p.c. |                                   |       |                |
|-------|------|------|-----------------------------------|-------|----------------|
| ..... | 5.94 | 0.23 | Considerable foreign tissues..... | 62953 |                |
| ..... | 5.40 | 2.21 | No foreign tissue.....            | 62954 |                |
| ..... | 5.48 | 2.06 | " ".....                          | 62955 |                |
| ..... | 3.12 | 0.07 | " ".....                          | 62956 |                |
| ..... | 2.58 | 0.15 | " ".....                          | 62957 |                |
| ..... | 2.69 | 0.31 | " ".....                          | 62958 |                |
| ..... | 6.66 | 1.91 | " ".....                          | 62959 | Ash excessive. |
| ..... | 4.48 | 0.27 | " ".....                          | 62960 |                |

## J. A. RICKEY, INSPECTOR.

|       | p.c. | p.c. |                         |       |  |
|-------|------|------|-------------------------|-------|--|
| ..... | 3.13 | 0.54 | No foreign tissues..... | 70552 |  |
| ..... | 3.47 | 0.28 | " ".....                | 70558 |  |
| ..... | 4.39 | 0.89 | " ".....                | 70537 |  |
| ..... | 3.15 | 0.52 | " ".....                | 70582 |  |

## BULLETIN No. 358—

| 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—

|         |               |       |                                        |        |    |                           |                          |
|---------|---------------|-------|----------------------------------------|--------|----|---------------------------|--------------------------|
| 1915.   |               |       |                                        |        |    |                           |                          |
| Dec. 14 | Ground Cassia | 70589 | T. McCormick & Son, Arnprior.          | 2 lbs. | 30 | .....                     | Forbes Bros., Arnprior.  |
| " 24    | "             | 70629 | E. Birnna, Eganville....               | 2 "    | 30 | J. M. Lowes Co., Toronto. | .....                    |
| " 27    | "             | 70632 | W. McCreery, 42 Creighton St., Ottawa. | 2 "    | 30 | .....                     | Provost & Allard Ottawa. |
| " 28    | "             | 70637 | Henri Daoust, Alfred.....              | 2 "    | 30 | .....                     | Hudon-Hebert & Cie.      |

## DISTRICT OF KINGSTON—

|        |           |       |                            |        |    |                             |                            |
|--------|-----------|-------|----------------------------|--------|----|-----------------------------|----------------------------|
| Dec. 9 | Cassia... | 71763 | A. Glover, Kingston.....   | 2 lbs. | 30 | F. F. Dalley Co., Hamilton. | .....                      |
| " 9    | "         | 71764 | J. E. Purday, Kingston...  | 2 "    | 30 | McLaren's, Hamilton.        | .....                      |
| " 9    | "         | 71765 | J. Gilbert, Kingston...    | 2 "    | 35 | J. M. Lowes, Toronto.       | .....                      |
| " 9    | "         | 71766 | W. J. Lee, Kingston....    | 2 "    | 30 | .....                       | W. G. Craig Co., Kingston. |
| " 9    | "         | 71767 | W. J. Arniel, Kingston.... | 2 "    | 30 | F. F. Dalley Co., Hamilton. | .....                      |
| " 10   | "         | 71768 | A. Smith, Kingston...      | 2 "    | 30 | W. G. Dunn Co., Hamilton.   | .....                      |
| " 15   | "         | 71769 | J. E. Lillico, Peterboro.. | 2 "    | 45 | .....                       | .....                      |
| " 15   | "         | 71770 | A. Pearson, Peterboro....  | 2 "    | 30 | T. Kinnear Co., Peterboro.  | .....                      |

## DISTRICT OF TORONTO—

|         |               |       |                                              |        |    |                                |                               |
|---------|---------------|-------|----------------------------------------------|--------|----|--------------------------------|-------------------------------|
| Dec. 20 | Ground Cassia | 69990 | B. Chyston, 388 Wilton Ave., Toronto.        | 2 lbs. | 23 | Lister Pure Food Co., Toronto. | .....                         |
| " 23    | "             | 69991 | M. Dougall, 870 Broadview Ave., Toronto.     | 2 "    | 30 | .....                          | Eby Blain, Ltd., Toronto.     |
| " 23    | "             | 69992 | A. C. Penney, 196 Danforth Ave., Toronto.    | 2 "    | 30 | .....                          | " "                           |
| " 23    | "             | 69993 | A. E. Ryan, 759 Pape Ave., Toronto.          | 2 "    | 30 | .....                          | Armstrong & Pafford, Toronto. |
| " 24    | "             | 69995 | C. Godfrey, 371 Spadina Ave., Toronto.       | 2 "    | 30 | .....                          | Unknown.....                  |
| " 27    | "             | 69996 | J. A. Newman, 456 Gerrard St., Toronto.      | 2 "    | 30 | R. B. Hayhoe & Co., Toronto.   | .....                         |
| " 27    | "             | 69997 | John Anderson, 86 Dundas St., Toronto.       | 2 "    | 23 | .....                          | John Sloan & Co., Toronto.    |
| " 27    | "             | 70162 | C. J. Ballard, 2 Westmoreland Ave., Toronto. | 2 "    | 25 | Tod, Hunter Mitchell, Toronto. | .....                         |

## CASSIA.

| Inspector's<br>Report. (Is not an<br>expression of<br>opinion. | Results of Analysis. |                 |                             | No. of Sample. | Remarks<br>and Opinion of the<br>Chief Analyst. |
|----------------------------------------------------------------|----------------------|-----------------|-----------------------------|----------------|-------------------------------------------------|
|                                                                | Ash.                 |                 | Microscopical Examinations. |                |                                                 |
|                                                                | Total.               | Insol-<br>uble. |                             |                |                                                 |

## Concluded.

|       | P. c. | P. c. |                               |       |               |
|-------|-------|-------|-------------------------------|-------|---------------|
| ..... | 3.13  | 0.70  | No foreign tissues.....       | 70589 |               |
| ..... | 2.99  | 0.52  | " " .....                     | 70629 |               |
| ..... | 3.05  | 0.70  | " " .....                     | 70632 |               |
| ..... | 6.98  | 1.28  | A little foreign tissue ..... | 70637 | Ash excessive |

## JAMES HOGAN, INSPECTOR.

|       |      |      |                        |       |  |
|-------|------|------|------------------------|-------|--|
| ..... | 3.73 | 0.52 | No foreign tissue..... | 71763 |  |
| ..... | 4.05 | 0.58 | " " .....              | 71764 |  |
| ..... | 3.17 | 0.31 | " " .....              | 71765 |  |
| ..... | 2.58 | 0.24 | " " .....              | 71766 |  |
| ..... | 4.95 | 1.16 | " " .....              | 71767 |  |
| ..... | 4.96 | 1.38 | " " .....              | 71768 |  |
| ..... | 2.64 | 0.18 | " " .....              | 71769 |  |
| ..... | 4.32 | 0.79 | " " .....              | 71770 |  |

## H. J. DAGER, INSPECTOR.

|       |      |      |                         |       |                |
|-------|------|------|-------------------------|-------|----------------|
| ..... | 6.63 | 2.00 | No foreign tissues..... | 69990 | Ash excessive. |
| ..... | 2.91 | 0.45 | " " .....               | 69991 |                |
| ..... | 2.89 | 0.15 | " " .....               | 69992 |                |
| ..... | 2.49 | 0.25 | " " .....               | 69993 |                |
| ..... | 8.50 | 0.88 | " " .....               | 69995 |                |
| ..... | 4.33 | 1.21 | " " .....               | 69996 |                |
| ..... | 2.08 | 0.15 | " " .....               | 69997 |                |
| ..... | 2.29 | 0.19 | " " .....               | 70162 |                |

## BULLETIN No. 358—

| 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 WINDSOR—

|         |            |       |                            |       |    |                             |                     |
|---------|------------|-------|----------------------------|-------|----|-----------------------------|---------------------|
| 1916.   |            |       |                            |       |    |                             |                     |
| Jan. 11 | Cassia ... | 54529 | J. P. Sheppard, Clinton... | 3 lb. | 38 | Gorman, Eckert Co., London. |                     |
| " 11    | " ...      | 54534 | Johnson & Co., Clinton ... | 2 "   | 40 |                             | John Sloan, Berlin. |
| " 12    | " ...      | 54541 | J. J. McEwen, Goderich...  | 2 "   | 30 | F. F. Dalley Co., Hamilton. |                     |
| " 12    | " ...      | 54545 | John Spahi, Goderich....   | 2 "   | 30 | Gorman, Eckert Co., London. |                     |
| " 12    | " ...      | 54546 | Jas. H. Pipe, Goderich.... | 2 "   | 60 | " "                         |                     |
| " 12    | " ...      | 54550 | W. J. Powell, Goderich ... | 2 "   | 40 | " "                         |                     |
| " 13    | " ...      | 54558 | G. H. Haig, Seaforth....   | 2 "   | 18 | Dalley's, Hamilton..        |                     |
| " 13    | " ...      | 54559 | Cardno Bros., Seaforth ... | 2 "   | 30 | Gorman, Eckert Co., London. |                     |

## DISTRICT OF MANITOBA—

|         |            |       |                             |       |    |                              |  |
|---------|------------|-------|-----------------------------|-------|----|------------------------------|--|
| 1915.   |            |       |                             |       |    |                              |  |
| Dec. 20 | Cassia.... | 71969 | Whitman & Co., Emerson..    | 3 lb. | 30 | Codville Co., Winnipeg.      |  |
| " 22    | " ...      | 71970 | A. F. Higgins, Carman....   | 2 "   | 25 | A. McDonald, Ltd., Winnipeg. |  |
| " 22    | " ...      | 71971 | Miller Bros., Carman ...    | 2 "   | 30 | Richards & Brown, Carman.    |  |
| 1916.   |            |       |                             |       |    |                              |  |
| Jan. 4  | " ...      | 71972 | W. N. White, Souris.....    | 2 "   | 30 | Richards & Brown, Winnipeg.  |  |
| " 6     | " ...      | 71973 | J. F. Price, Brandon. ....  | 2 "   | 30 | Codville Co., Winnipeg.      |  |
| " 7     | " ...      | 71974 | Murdoch & Wilson, Virden.   | 2 "   | 30 | Gold Standard Co., Codville. |  |
| " 7     | " ...      | 71975 | Scales & Carscadden, Virden | 2 "   | 30 | Unknown...                   |  |
| " 7     | " ...      | 71976 | N. R. Shurman, Virden....   | 2 "   | 30 | F. F. Dalley, Hamilton.      |  |

## DISTRICT OF SASKATCHEWAN—

|         |            |       |                            |        |    |                                    |                                    |
|---------|------------|-------|----------------------------|--------|----|------------------------------------|------------------------------------|
| 1915.   |            |       |                            |        |    |                                    |                                    |
| Dec. 14 | Cassia.... | 71503 | T. A. Easson, Avonlea. . . | 3 pks. | 30 | Gold Standard Co., Winnipeg.       | Codville Co., Moose Jaw.           |
| " 14    | " ...      | 71505 | M. Devlin, Avonlea.....    | 3 "    | 30 | Gorman, Eckert Co., Winnipeg.      | McDonald, Crawford Co., Moose Jaw. |
| " 16    | " ...      | 71515 | Hector Hay, Yellow Grass.  | 3 "    | 30 | Campbell Bros. & Wilson, Winnipeg. |                                    |
| " 16    | " ...      | 71516 | J. C. Baker, Yellow Grass. | 3 "    | 30 | No Vary Products Co., Minneapolis. | Weyburn Grocery, Weyburn           |

## CASSIA.

| Inspector's<br>Report. (Is not an<br>expression of<br>opinion.) | Results of Analysis. |                 |                            | No. of Sample. | Remarks<br>and Opinion of the<br>Chief Analyst. |
|-----------------------------------------------------------------|----------------------|-----------------|----------------------------|----------------|-------------------------------------------------|
|                                                                 | Ash.                 |                 | Microscopical Examination. |                |                                                 |
|                                                                 | Total.               | Insol-<br>uble. |                            |                |                                                 |

## JOHN TALBOT, INSPECTOR.

|       | p.c. | p.c. |                         |       |
|-------|------|------|-------------------------|-------|
| ..... | 2.95 | 0.45 | No foreign tissues..... | 54529 |
| ..... | 3.45 | 0.23 | " " .....               | 54534 |
| ..... | 4.88 | 1.39 | " " .....               | 54541 |
| ..... | 3.64 | 0.57 | " " .....               | 54545 |
| ..... | 4.99 | 0.88 | " " .....               | 54546 |
| ..... | 3.04 | 0.46 | " " .....               | 54550 |
| ..... | 4.97 | 1.27 | " " .....               | 54558 |
| ..... | 2.99 | 0.47 | " " .....               | 54559 |

## J. B. COSGROVE, TEMPORARY INSPECTOR.

| ..... | 3.48 | 0.72 | No foreign tissues. .... | 71960 |
|-------|------|------|--------------------------|-------|
| ..... | 4.52 | 0.78 | " " .....                | 71970 |
| ..... | 2.82 | 0.40 | " " .....                | 71971 |
| ..... | 2.83 | 0.44 | " " .....                | 71972 |
| ..... | 3.25 | 0.62 | " " .....                | 71973 |
| ..... | 3.46 | 0.70 | " " .....                | 71974 |
| ..... | 4.94 | 1.09 | " " .....                | 71975 |
| ..... | 4.48 | 1.30 | " " .....                | 71976 |

## L. H. HALL, TEMPORARY INSPECTOR.

| ..... | 3.80 | 0.92 | No foreign tissues . . . . . | 71503 |
|-------|------|------|------------------------------|-------|
| ..... | 3.30 | 0.90 | " " .....                    | 71505 |
| ..... | 4.40 | 0.98 | " " .....                    | 71515 |
| ..... | 2.96 | 0.52 | " " .....                    | 71516 |

## BULLETIN No. 358—

| 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 ALBERTA—

|         |            |       |                                   |         |    |                                     |  |
|---------|------------|-------|-----------------------------------|---------|----|-------------------------------------|--|
| 1916.   |            |       |                                   |         |    |                                     |  |
| Feb. 10 | Cassia.... | 52353 | J. H. Morris & Co., Edmonton.     | 3 lb.   | 30 | White Star Mfg. Co., Winnipeg.      |  |
| " 10    | " ...      | 52354 | J. A. Hallier, Edmonton.          | 3 "     | 30 | Georgeson & Co., Calgary.           |  |
| " 11    | " ...      | 52355 | Johnstone Walker, Ltd., Edmonton. | 3 "     | 37 | Revillon Wholesale, Ltd., Edmonton. |  |
| " 11    | " ....     | 52356 | Hudson's Bay Co., Edmonton.       | 3 "     | 30 | " "                                 |  |
| " 16    | " ....     | 52357 | L. J. Adams, Stettler.            | 3 "     | 30 | Pure Gold Mfg. Co., Winnipeg.       |  |
| " 21    | " ....     | 52358 | S. G. Freeze, Calgary.            | 3 "     | 30 | Campbell, Wilson & Horne, Calgary.  |  |
| " 22    | " ...      | 52359 | Hudson's Bay Co., Calgary.        | 3 tins. | 30 | Georgeson & Co., Calgary.           |  |
| " 22    | " ...      | 52360 | John Irwin & Co., Ltd., Calgary.  | 3 "     | 30 | " "                                 |  |

## DISTRICT OF ROCKY MOUNTAINS—

|         |            |       |                               |         |    |                                |  |
|---------|------------|-------|-------------------------------|---------|----|--------------------------------|--|
| 1915.   |            |       |                               |         |    |                                |  |
| Dec. 14 | Cassia.... | 68121 | Union Cash Grocery, Nelson.   | 3 tins. | 40 | Gorman Eokert & Co., London.   |  |
| 1916.   |            |       |                               |         |    |                                |  |
| Jan. 7  | " ....     | 68145 | J. Manning, Cranbrook.        | 3 lb.   | 30 | W. H. Malkin & Co., Vancouver. |  |
| " 7     | " ....     | 68150 | Ira R. Manning, Canbrook.     | 3 tins. | 40 | F. F. Dalley Co., Hamilton.    |  |
| " 7     | " ....     | 68155 | Little & Atchison, Cranbrook. | 3 "     | 40 | Georgeson & Co., Calgary.      |  |

## DISTRICT OF VANCOUVER—

|         |                |       |                                                        |         |    |                                  |  |
|---------|----------------|-------|--------------------------------------------------------|---------|----|----------------------------------|--|
| Jan. 14 | Ground Cassia. | 55450 | David Spencer, Ltd., Vancouver.                        | 3 tins. | 30 | .....                            |  |
| " 15    | " ..           | 55451 | C. O. Stores, 106 Hastings St. W., Vancouver.          | 3 "     | 30 | Empress Mfg. Co., Vancouver.     |  |
| " 18    | " ..           | 55452 | Central Market, 32 Hastings St. E., Vancouver.         | 3 "     | 30 | W. H. Malkin & Co., Vancouver.   |  |
| " 18    | " ..           | 55453 | J. McTaggart & Sons, 794 Granville St., Vancouver.     | 3 lb.   | 30 | Unknown                          |  |
| " 18    | " ..           | 55454 | Slater's Market, 830 Granville St., Vancouver.         | 3 tins. | 30 | Kelly, Douglas & Co., Vancouver. |  |
| " 18    | " ..           | 55455 | A. & C. Grocery, 520 Granville St., Vancouver.         | 3 lb.   | 30 | Empress Mfg. Co., Vancouver.     |  |
| " 19    | " ..           | 55456 | D. McGregor, 1201 Pender St. W., Vancouver.            | 3 tins. | 30 | Wm. Braid & Co., Vancouver.      |  |
| " 19    | " ..           | 55457 | Duke's Grocery, Hastings St. and Gore Ave., Vancouver. | 3 lb.   | 30 | Unknown                          |  |

## CASSIA.

| Inspector's<br>Report. (Is not an<br>expression of<br>opinion.) | Results of Analysis.  |        |                 |                               |                                     |                                           |                                        |              | No. of Sample. | Remarks<br>and Opinion<br>of the<br>Chief Analyst. |
|-----------------------------------------------------------------|-----------------------|--------|-----------------|-------------------------------|-------------------------------------|-------------------------------------------|----------------------------------------|--------------|----------------|----------------------------------------------------|
|                                                                 | Moisture at<br>110°C. | Ash.   |                 | Microscopical<br>Examination. | Volatile Ether<br>Extract<br>110°C. | Non-volatile<br>Ether Ex-<br>tract 110°C. | Total Sol-<br>phuric Ether<br>Extract. | Crude Fibre. |                |                                                    |
|                                                                 |                       | Total. | Insol-<br>uble. |                               |                                     |                                           |                                        |              |                |                                                    |

## A. W. MARKLEY, INSPECTOR.

|                     | p.c.  | p.c. | p.c. |                        | p.c.  | p.c.  | p.c.  | p.c.  |       |
|---------------------|-------|------|------|------------------------|-------|-------|-------|-------|-------|
| .....               | 12.0  | 3.10 | 0.60 | No foreign<br>tissues. | 0.165 | 0.177 | 0.342 | 24.40 | 52353 |
| Tuxedo Brand.....   | 11.25 | 3.45 | 0.60 | " ..                   | 0.210 | 0.186 | 0.306 | 25.60 | 52354 |
| .....               | 11.30 | 3.85 | 0.90 | " ..                   | 0.164 | 0.190 | 0.364 | 26.70 | 52355 |
| Nolliver Brand..... | 10.04 | 2.85 | 0.40 | " ..                   | 0.231 | 0.182 | 0.413 | 24.70 | 52356 |
| .....               | 10.24 | 3.45 | 0.80 | " ..                   | 0.191 | 0.157 | 0.348 | 23.50 | 52357 |
| .....               | 11.68 | 3.30 | 0.80 | " ..                   | 0.182 | 0.172 | 0.354 | 24.70 | 52358 |
| Tuxedo Brand ..     | 10.68 | 2.95 | 0.40 | " ..                   | 0.232 | 0.193 | 0.425 | 24.70 | 52359 |
| " .....             | 10.12 | 3.10 | 0.35 | " ..                   | 0.233 | 0.189 | 0.422 | 23.55 | 52360 |

## THOS. PARKER, INSPECTOR.

| ..... | 11.77 | 2.45 | 0.40 | No foreign<br>tissues. | 0.238 | 0.169 | 0.407 | 20.70 | 68121 |
|-------|-------|------|------|------------------------|-------|-------|-------|-------|-------|
| ..... | 11.77 | 2.05 | 0.15 | " ..                   | 0.218 | 0.128 | 0.346 | 19.55 | 68145 |
| ..... | 10.62 | 4.95 | 1.15 | " ..                   | 0.206 | 0.145 | 0.353 | 20.90 | 68150 |
| ..... | 11.34 | 3.35 | 0.55 | " ..                   | 0.221 | 0.180 | 0.401 | 23.00 | 68155 |

## E. J. MORGAN, INSPECTOR.

| Packed expressly for<br>Vendor.         | 11.46 | 3.30 | 0.15 | No foreign<br>tissues. | 0.244 | 0.118 | 0.362 | 19.90 | 55450 |
|-----------------------------------------|-------|------|------|------------------------|-------|-------|-------|-------|-------|
| Sold as Cinnamon...                     | 11.21 | 4.15 | 0.10 | " ..                   | 0.279 | 0.105 | 0.384 | 17.30 | 55451 |
| Malkin's Best. Sold<br>as Cinnamon.     | 11.36 | 2.30 | 0.10 | " ..                   | 0.224 | 0.147 | 0.371 | 23.50 | 55452 |
| " " ..                                  | 10.56 | 2.65 | 0.20 | " ..                   | 0.254 | 0.127 | 0.381 | 17.40 | 55453 |
| Nabob Brand. Sold<br>as Cinnamon.       | 10.56 | 2.45 | 0.15 | " ..                   | 0.294 | 0.140 | 0.434 | 16.45 | 55454 |
| " " ..                                  | 11.07 | 3.50 | 0.10 | " ..                   | 0.283 | 0.106 | 0.388 | 15.60 | 55455 |
| " " ..                                  | 11.29 | 3.50 | 0.20 | " ..                   | 2.291 | 0.168 | 0.459 | 18.66 | 55456 |
| Braid's Best Brand<br>Sold as Cinnamon. | 11.39 | 3.70 | 0.60 | " ..                   | 0.156 | 0.129 | 0.285 | 19.85 | 55457 |

## BULLETIN No. 358—

| 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 VICTORIA—

|         |            |       |                                                              |                    |    |                                    |       |
|---------|------------|-------|--------------------------------------------------------------|--------------------|----|------------------------------------|-------|
| 1916.   |            |       |                                                              |                    |    |                                    |       |
| Mar. 13 | Cassia.... | 71333 | W. A. Jameson Coffee Co.,<br>754 Broughton St., Victoria.    | $\frac{1}{2}$ lb.. | 20 | G. S. Dunn & Co.,<br>Hamilton.     | ..... |
| " 15    | " ....     | 71335 | Pioneer Coffee & Spice Mills,<br>641 Pembroke St., Victoria. | $\frac{1}{2}$ "    | 25 | G. Growther & Co.,<br>Kobe, Japan. | ..... |

## CASSIA.

| Inspector's<br>Report. (Is not an<br>expression of<br>opinion.) | Results of Analysis.  |        |                 |                               |                                     |                                           |                                         |              | No. of Sample. | Remarks<br>and Opinion<br>of the<br>Chief Analyst. |
|-----------------------------------------------------------------|-----------------------|--------|-----------------|-------------------------------|-------------------------------------|-------------------------------------------|-----------------------------------------|--------------|----------------|----------------------------------------------------|
|                                                                 | Moisture at<br>110°C. | Ash.   |                 | Microscopical<br>Examination. | Volatile Ether<br>Extract<br>110°C. | Non-volatile<br>Ether Ex-<br>tract 110°C. | Total Sub-<br>stancie Ether<br>Extract. | Crude Fibre. |                |                                                    |
|                                                                 |                       | Total. | Insol-<br>uble. |                               |                                     |                                           |                                         |              |                |                                                    |

D. O'SULLIVAN, INSPECTOR.

|       | p.c.  | p.c. | p.c. |                        | p.c.  | p.c.  | p.c.  | p.c.  |       |
|-------|-------|------|------|------------------------|-------|-------|-------|-------|-------|
| ..... | 11.37 | 2.90 | 0.60 | No foreign<br>tissues. | 0.208 | 0.196 | 0.309 | 23.0  | 71353 |
| ..... | 10.47 | 3.75 | 1.10 | " ..                   | 0.208 | 0.196 | 0.463 | 18.25 | 71355 |

