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CONTENTS OF VOLUME 1.

(This volume is bound in three parts.)

1. Report of the Auditor General for the year ended March 31, 1913. Volume I, Parts A to J, and Volume II, Parts K to U. Presented by Hon. Mr. Fisher, January 28, 1914.
Printed for distribution and sessional papers.
1. Report of the Auditor General for the year ended March 31, 1913, Volume III, Parts V to Y. Presented by Hon. Mr. White, January 19, 1914.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 2.

2. The Public Accounts of Canada, for the fiscal year ended March 31, 1913. Presented by Hon. Mr. White, January 19, 1914.
Printed for distribution and sessional papers.
3. Estimates of sums required for the service of the Dominion for the year ending March 31, 1915. Presented by Hon. Mr. White, January 29, 1914.
Printed for distribution and sessional papers.
- 3a. Supplementary Estimates of sums required for the service of the Dominion for the year ending March 31, 1914. Presented by Hon. Mr. White, March 10, 1914.
Printed for distribution and sessional papers.
4. Supplementary Estimates of sums required for the service of the Dominion for the year ending March 31, 1915. Presented by Hon. Mr. White, May 18, 1914.
Printed for distribution and sessional papers.
5. Further Supplementary Estimates of sums required for the service of the Dominion for the year ending March 31, 1915. Presented by Hon. Mr. White, June 9, 1914.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 3.

6. List of Shareholders in the Chartered Banks of the Dominion of Canada as on December 31, 1913. Presented by Hon. Mr. White, January 19, 1914.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 4.

7. Report on dividends remaining unpaid, unclaimed balances and unpaid drafts and bills of exchange in Chartered Banks of the Dominion of Canada, for five years and upwards prior to December 31, 1913. Presented by Hon. Mr. White, March 16, 1914.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 5.

(This volume is bound in two parts.)

8. Report of Superintendent of Insurance for year ended 1913. Presented by Hon. Mr. White, June 2, 1914.
Printed for distribution and sessional papers.
9. Abstract of Statement of Insurance Companies in Canada for the year ended December 31, 1913. Presented by Hon. Mr. White, June 2, 1914.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 6.

- 10.** Report of the Department of Trade and Commerce for the fiscal year ended March 31, 1913, Part I.—Canadian Trade. Presented by Hon. Mr. Foster, April 15, 1914. *Printed for distribution and sessional papers.*
- 10a.** Report of the Department of Trade and Commerce, for the year ended March 31, 1913; Part II.—Canadian Trade with (1) France, (2) Germany, (3) United Kingdom, and (4) United States. Presented by Hon. Mr. Foster, January 22, 1914. *Printed for distribution and sessional papers.*

CONTENTS OF VOLUME 7.

- 10b.** Report of the Department of Trade and Commerce for the fiscal year ended March 31, 1913; Part III.—Canadian Trade with Foreign Countries (except France, Germany, the United Kingdom and United States). Presented by Hon. Mr. Foster, April 15, 1914. *Printed for distribution and sessional papers.*
- 10c.** Report of the Department of Trade and Commerce, for the fiscal year ended March 31, 1913; Part IV.—Miscellaneous Information. Presented by Hon. Mr. Foster, April 27, 1914. *Printed for distribution and sessional papers.*
- 10d.** Report of the Board of Grain Commissioners for Canada. Presented by Hon. Mr. Foster, June 4, 1914. *Printed for distribution and sessional papers.*

CONTENTS OF VOLUME 8.

- 10e.** Report of the Department of Trade and Commerce, for the fiscal year ending March 31, 1913; Part VI.—Subsidized Steamship Services, with Statistics showing Steamship Traffic to December 31, 1913, and Estimates for fiscal year 1914-1915. Presented by Hon. Mr. Foster, March 25, 1914. *Printed for distribution and sessional papers.*
- 10f.** Report of Trade and Commerce for fiscal year ended March 31, 1913; Part VII.—Trade of Foreign Countries, Treaties and Conventions. Presented by Hon. Mr. Foster, 1914. *Printed for distribution and sessional papers.*

CONTENTS OF VOLUME 9.

- 11.** Report of the Department of Customs for the year ended March 31, 1913. Presented by Hon. Mr. Reid, January 22, 1914. *Printed for distribution and sessional papers.*

CONTENTS OF VOLUME 10.

- 12.** Reports, Returns and Statistics of the Inland Revenues for the Dominion of Canada, for the year ended March 31, 1913. Part I.—Excise. Presented by Hon. Mr. Nantel, January 19, 1914. *Printed for distribution and sessional papers.*
- 13.** Part II.—Inspection of Weights and Measures, Gas and Electricity. Presented by Hon. Mr. Nantel, January 19, 1914. *Printed for distribution and sessional papers.*
- 14.** Reports, Returns and Statistics of the Inland Revenues for the Dominion of Canada for the year ended March 31, 1913. Part III.—Adulteration of Food. Presented by Hon. Mr. Nantel, February 11, 1914. *Printed for distribution and sessional papers.*
- 15.** Report of the Minister of Agriculture for the Dominion of Canada, for the year ended March 31, 1913. Presented by Hon. Mr. Burrell, January 22, 1914. *Printed for distribution and sessional papers.*

CONTENTS OF VOLUME 11.

- 15a.** Report of the Dairy and Cold Storage Commissioner for the fiscal year ended March 31, 1913 (Dairying, Fruit, Extension of Markets and Cold Storage.) Presented by Hon. Mr. Burrell, May 5, 1914. *Printed for distribution and sessional papers.*
- 15b.** Report of the Veterinary Director General for the year ending March 31, 1913. Presented by Hon. Mr. Burrell, February 2, 1914. *Printed for distribution and sessional papers.*
- 16.** Report of the Director and Officers of the Experimental Farms for the years ending March 31, 1913. Presented by Hon. Mr. Burrell, April 7, 1914. *Printed for distribution and sessional papers.*

CONTENTS OF VOLUME 12.

- 17.** Criminal Statistics for the year ended September 30, 1912. (Appendix to the Report of the Minister of Trade and Commerce, for the year 1912.) Presented by Hon. Mr. Foster, February 20, 1914. *Printed for distribution and sessional papers.*

- 18.** *Résumé of General Elections of 1896, 1900, 1904, 1908 and 1911, and of By-Elections held between July 11, 1896 and January 1, 1911.* Presented by Hon. Mr. Coderre, January 27, 1914. *Printed for distribution and sessional papers.*
- 18a.** *Return of By-Elections for the House of Commons of Canada held during the year 1913.* Presented by Hon. Mr. Coderre, January 27, 1914. *Printed for distribution and sessional papers.*

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- 19.** *Report of the Minister of Public Works on the work of the Public Control for the fiscal year ended March 31, 1913.* Presented by Hon. Mr. Rogers, January 19, 1914. *Printed for distribution and sessional papers.*

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- 20.** *Report of the Department of Railways and Canals for the fiscal period from April 1, 1912, to March 31, 1913.* Presented by Hon. Mr. Reid, March 29, 1914. *Printed for distribution and sessional papers.*
- 20a.** *Canal Statistics for the season of Navigation, 1913.* Presented by Hon. Mr. Reid, March 12, 1914. *Printed for distribution and sessional papers.*
- 20b.** *Railway Statistics of the Dominion of Canada for the year ended June 30, 1913.* Presented by Hon. Mr. Cochrane, February 29, 1914. *Printed for distribution and sessional papers.*

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- 20c.** *Eighth Report of the Board of Railway Commissioners of Canada for the year ending March 31, 1913.* Presented by Hon. Mr. Cochrane, February 22, 1914. *Printed for distribution and sessional papers.*
- 20d.** *Telephone Statistics of the Dominion of Canada for the year ended June 30, 1913.* Presented by Hon. Mr. Cochrane, February 19, 1914. *Printed for distribution and sessional papers.*
- 20e.** *Express Statistics of the Dominion of Canada for the year ended June 30, 1913.* Presented by Hon. Mr. Cochrane, February 29, 1914. *Printed for distribution and sessional papers.*
- 20f.** *Telegraph Statistics of the Dominion of Canada for the year ended June 30, 1913.* Presented by Hon. Mr. Cochrane, February 19, 1914. *Printed for distribution and sessional papers.*

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- 21.** *Forty-sixth Annual Report of the Department of Marine and Fisheries, for the year 1912-1913—Marine.* Presented by Hon. Mr. Hazen, February 21, 1914. *Printed for distribution and sessional papers.*
- 21b.** *List of Shipping issued by the Department of Marine and Fisheries, being a list of vessels on the Registry Books of the Dominion of Canada, as of December 31, 1913.* Presented by Hon. Mr. Hazen, May 1, 1914. *Printed for distribution and sessional papers.*

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- 22.** *Forty-sixth Annual Report of the Department of Marine and Fisheries, 1912-13—Fisheries.* Presented by Hon. Mr. Hazen, January 13, 1914. *Printed for distribution and sessional papers.*
- 23.** *Supplement to the Forty-sixth Annual Report of the Department of Marine and Fisheries for the fiscal year 1912-13—Steamboat Inspection Report.* Presented by Hon. Mr. Hazen, March 27, 1914. *Printed for distribution and sessional papers.*

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- 24.** *Report of the Postmaster-General, for the year ended March 31, 1913.* Presented by Hon. Mr. Blicher, March 12, 1914. *Printed for distribution and sessional papers.*

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- 25.** *Annual Report of the Department of the Interior, for the fiscal year ending March 31, 1913.—Volume I.* Presented by Hon. Mr. Roche, February 23, 1914. *Printed for distribution and sessional papers.*

25. Annual Report of the Department of the Interior, for the fiscal year ending March 31, 1913.
—Volume II. Presented by Hon. Mr. Roche, March 9, 1914.
Printed for distribution and sessional papers.

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- 25c. Report of Progress of Stream Measurements, for the calendar year 1913, prepared under the direction of F. H. Peters, C.E., Commissioner of Irrigation. Presented by Hon. Mr. Roche, March 26, 1914. *Printed for distribution and sessional papers.*
- 25d. Twelfth Report of the Geographic Board of Canada, for the year ending June 30, 1913. Presented by Hon. Mr. Roche, February 2, 1914.
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- 25e. Manitoba Water-powers,
25f. Railway Belt Hydrographic Survey for 1911-1912. Presented, 1914.

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26. Summary Report of the Geological Survey, Department of Mines, for the calendar year 1912. Presented by Hon. Mr. Coderre, 1914.
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- 26a. Summary Report of the Mines Branch for the calendar year 1912. Presented 1914.
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27. Report of the Department of Indian Affairs for the year ended March 31, 1913. Presented by Hon. Mr. Roche, January 27, 1914. *Printed for distribution and sessional papers.*

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28. Report of the Royal Northwest Mounted Police, 1913. Presented by Hon. Mr. Borden, January 19, 1914. *Printed for distribution and sessional papers.*
- 28a. Statement of Magisterial cases entered, and convictions obtained by the Royal Northwest Mounted Police in the Provinces of Alberta and Saskatchewan, the Yukon Territory and a portion of Manitoba, during the years 1909 to 1913. Presented by Hon. Mr. Borden, February 16, 1914. *Not printed.*
29. Report of the Secretary of State of Canada for the year ended March 31, 1913. Presented by Hon. Mr. Coderre, February 9, 1914. *Printed for distribution and sessional papers.*
- 29a. Report of the Secretary of State for External Affairs for the year ended March 31, 1913. Presented by Hon. Mr. Borden, January 19, 1914.
Printed for distribution and sessional papers.

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- 29b. Documents *re* Constitutional History of Canada.—(Senate).
Printed for distribution and sessional papers.
- 29c. Public Archives.—Documents relating to the Constitutional History of Canada, 1791-1818, selected and edited with notes by Arthur G. Doughty and Duncan A. McArthur. Presented by Hon. Mr. Coderre, March 27, 1914.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 26.

30. The Civil Service List of Canada, 1913. Presented, 1914.
Printed for distribution and sessional papers.
31. Fifth Annual Report of the Civil Service Commission of Canada for the year ended August 31, 1913. Presented by Hon. Mr. Coderre, March 18, 1914.
Printed for distribution and sessional papers.
32. Annual Report of the Department of Public Printing and Stationery for the fiscal year ended March 31, 1913. Presented by Hon. Mr. Coderre, March 11, 1914.
Printed for distribution and sessional papers.

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33. The Report of the Joint Librarians of Parliament. Presented by the Hon. The Speaker, January 15, 1914. *Not printed.*
34. Report of the Minister of Justice as to Penitentiaries of Canada, for the fiscal year ended March 31, 1913. *Printed for distribution and sessional papers.*

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35. Report of the Militia Council for the Dominion of Canada, for the fiscal year ending March 31, 1913. Presented by Hon. Mr. Hughes, March 9, 1914.
Printed for distribution and sessional papers.
36. Report of the Department of Labour for the fiscal year ending March 31, 1913. Presented by Hon. Mr. Crothers, January 19, 1914.*Printed for distribution and sessional papers.*
- 36a. Sixth Report of the Registrar of Boards of Conciliation and Investigation of the proceedings under "The Industrial Disputes Investigation Act, 1907," for the fiscal year ending March 31, 1913. Presented by Hon. Mr. Crothers, January 19, 1914.
Printed for distribution and sessional papers.
- 36b. Report on Strikes and Lockouts in Canada, from 1901 to 1912. Presented by Hon. Mr. Crothers, January 19, 1914.*Printed for distribution and sessional papers.*
37. Ninth Annual Report of the Commissioners of the Transcontinental Railway, for the year ended March 31, 1913. Presented by Hon. Mr. Cochran, January 22, 1914.
Printed for distribution and sessional papers.
- 37a. Interim Report of the Commissioners of the Transcontinental Railway, for the nine months ended December 31, 1913. Presented by Hon. Mr. Cochran, February 18, 1914.
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38. Report of the Department of the Naval Service, for the fiscal year ending March 31, 1913. Presented by Hon. Mr. Hazen, January 22, 1914.
Printed for distribution and sessional papers.

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39. A detailed statement of all bonds or securities registered in the Department of the Secretary of State of Canada, since last return (4th December, 1912), submitted to the Parliament of Canada under Section 22 of Chapter 19, of the Revised Statutes of Canada, 1906. Presented by Hon. Mr. Coleridge, January 22, 1914.*Not printed.*
40. Return to an Order of the House of April 7, 1913, for a copy of all accounts, vouchers and charges incurred by and relating to the Lobster Harvest and Patrol Boat *Trios* during the season of 1912, to December 31, 1912, with the names of the officers and crews, and the wages paid to each. Presented January 19, 1914.—*Mr. Kyte.**Not printed.*
41. Return to an Order of the House April 21, 1913, for a Return showing the names and the respective ranks and positions of the officers now on duty on the *Niobe* at Halifax, under the Department of Naval Affairs; the number of men now on duty as seaman or other like positions on the *Niobe*; the number of men dropped from the service on the *Niobe* since July 1, 1912; and if any efforts have been made to recruit men for the *Niobe* since July 1, 1912. Presented January 19, 1914.—*Mr. Meadonold.**Not printed.*
42. Return to an Order of the House of May 12, 1913.—1. For a Return showing the respective names, duties and salaries of Officials of the Immigration Department of both Inside and Outside Service on March 31, 1913.
2. The respective names, duties and salaries of Officials of the Immigration Department of both Inside and Outside Service on March 31, 1913. Presented January 19, 1914.—*Mr. Oliver.**Not printed.*
43. Return to an Order of the House of February 21, 1913, for a copy of all regulations relating to the disposition of Dominion Lands made by the Minister of the Interior from October 12, 1911, to January 1, 1912, and of the regulations for the placing of half-breed scrip on homestead or other lands, made by the Minister of the Interior from October 12, 1911, to January 1, 1912. Presented January 19, 1914.—*Mr. Oliver.**Not printed.*
44. Return to an Order of the House of January 15, 1913, for a copy of all charges, correspondence, letters, telegrams and other documents relative to the dismissal of Horace Rindress, Quarantine Medical Officer at North Sydney, in the Rank of North Cape Breton and Victoria, and of the evidence taken and report of investigation held by H. P. Duchemin, in regard to same, and a detailed statement of the expenses of such investigation. Presented January 19, 1914.—*Mr. McKenzie.**Not printed.*
- 44a. Supplementary Return to an Order of the House of December 11, 1912, for a copy of all papers, documents and correspondence relating to the dismissal of A. T. Doucet, Postmaster and Collector of Customs at Salmon River, Digby County, N.S. Presented January 19, 1914.—*Mr. Macdonald.**Not printed.*
- 44b. Return to an Order of the House of April 21, 1913, for a copy of the charges made against Alexis Bourque, Storm Signal Agent at Bonaventure, on which he was dismissed by the Minister of Marine and Fisheries, and a copy of all letters and other documents bearing on the appointment of his successor. Presented January 23, 1914.—*Mr. Marcell (Bonaventure).**Not printed.*

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- 44c. Return to an Order of the House of January 29, 1913, for a copy of all letters, petitions, telegrams, complaints, evidence, reports and other papers and documents in the possession of the Department of Marine and Fisheries, or any Department of the Government, relating to the dismissal of Patrick Conway, Lightkeeper at White Head Island, N.S., and if there was an investigation the names of the witnesses, a copy of the evidence, and a detailed statement of the expenses of such investigation. Presented January 21, 1914.—*Mr. Sinclair*..... *Not printed.*
- 44d. Return to an Order of the House of May 7, 1913, for a copy of all papers, documents, telegrams and correspondence in connection with the dismissal of Captain Wm. Smith, Coxswain, of the lifeboat at Blanche, Shelburne County, N.S. Presented January 21, 1914.—*Mr. Law*..... *Not printed.*
- 44e. Return to an Order of the House of March 3, 1913, for a Return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the 11th day of October, 1911, to this date, in the County of King's, Province of Nova Scotia, in connection with any of the Departments of the public service, not including cases in which orders have already passed; together with the names of the dismissed officials or employees, the reason for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations, where any such were held, and of all reports relating to such dismissals now in the possession of any of the Departments of the Government, also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid, or to be paid, by any Department in connection with the said dismissals and investigations or removals from office. Presented January 21, 1914.—*Mr. McKenzie*..... *Not printed.*
- 44f. Return to an Order of the House of the 23rd April, 1913, for a copy of the charges made by Messrs. J. A. Mousseau, A. Godbout and J. Blondin, against Jos. E. A. Landry, keeper of the lighthouse at St. Omer, Quebec, on which he was dismissed for alleged political partisanship. Presented January 21, 1914.—*Mr. Marcell (Bonaventure)*..... *Not printed.*
- 44g. Return to an Order of the House of the 29th January, 1913, for a copy of all charges, correspondence, letters, telegrams and other documents relating to the dismissal of Colin McIsaac, preventive officer at Port Hood, Inverness County, N.S. Presented January 21, 1914.—*Mr. Chisholm (Inverness)*..... *Not printed.*
- 44h. Return to an Order of the House of the 19th May, 1913, for a copy of all petitions and correspondence relating to the dismissal of Mr. Pesho, postmaster at Kent Bridge, Ontario. Presented January 22, 1914.—*Sir W. Laurier*..... *Not printed.*
- 44i. Return to an Order of the House of the 29th January, 1913, for a copy of all letters, petitions, telegrams, complaints, evidence, reports and other papers and documents in the possession of the Post Office Department or any department of the Government, relating to the dismissal of John F. Reeves, postmaster at Mulgrave, N.S., and if there was an investigation, the names of all witnesses examined, a copy of the evidence, and a detailed statement of the expenses of such investigation. Presented January 22, 1914.—*Mr. Sinclair*..... *Not printed.*
- 44j. Return to an Order of the House of the 29th January, 1913, for a copy of all charges, correspondence, letters, telegrams and other documents relating to the dismissal of Havelock McLeod, postmaster at Big Intervale, North East Margaree, Inverness County, Nova Scotia. Presented January 22, 1914.—*Mr. Chisholm (Inverness)*..... *Not printed.*
- 44k. Return to an Order of the House of the 21st April, 1913, for a copy of all documents, petitions, correspondence, messages, inquiries, reports, &c., relating to the dismissal of S. Lapointe, postmaster of St. Eloi, County of Temiscouata, and to the appointment of his successor. Presented January 22, 1914.—*Mr. Gauvreau*..... *Not printed.*
- 44l. Return to an Order of the House of the 3rd February, 1913, for a copy of all correspondence, letters, telegrams and other documents relative to the dismissal of William Bow, postmaster at Winchester Village, County of Dundas, and of all recommendations for the appointment of his successor. Presented January 22, 1914.—*Mr. MacNutt*..... *Not printed.*
- 44m. Return to an Order of the House of the 26th March, 1913, for a copy of all charges, correspondence, letters, telegrams, petitions and other documents relating to the dismissal of Mrs. Ellen O'Neil, postmistress at O'Neil's post office, Parish of Moncton, County of Westmorland, New Brunswick, and of all evidence, if any, taken in regard to the same, and of all reports concerning same; and also a copy of all recommendations, correspondence, letters, telegrams, petitions and other documents relating to the appointment of a successor, or of Robert C. Kelly as postmaster of or at the said O'Neil post office, and of all reports if any, as to the proper location of the office. Presented January 22, 1914.—*Mr. Emmerson*..... *Not printed.*

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443. Return to an Order of the House of the 21st April, 1913, for a copy of the charges made against Alex. Labilloy, postmaster of Magnasha, on which his dismissal took place, and of all letters and documents regarding the appointment of John Caissy in his place. Presented January 22, 1914.—*Mr. Maréchal (Bonaventure)*..... *Not printed.*
444. Return to an Order of the House of the 21st April, 1913, for a copy of all letters and other documents containing evidence or charges against Madame Z. Marcotte, postmistress of Nouvelle-West, Bonaventure County, on which the Postmaster General acted in removing her from office, and also of letters and other documents regarding the appointment of Mr. Lazare Fallu in her stead. Presented January 22, 1914. *Mr. Maréchal (Bonaventure)*..... *Not printed.*
445. Return to an Order of the House of the 25th April, 1913, for a copy of all complaints, accusations, correspondence, petitions, and telegrams respecting the dismissal of Joseph Verault, postmaster at Guay, County of Lévis, of the evidence and report made following the inquiries held by the inquiring Commissioner Smith and the inquiring Commissioner Jolœur in this matter, also the names of the witnesses summoned and heard, with a copy of the evidence heard at each inquiry, the names of those who represented the Government at these inquiries, and a detailed statement of the expenses caused by these inquiries, with a copy of all documents respecting the appointment of his successor, such as petitions, letters of recommendation, &c. Presented January 22, 1914. *Mr. Boasson*..... *Not printed.*
447. Return to an Order of the House of the 2nd June, 1913, for a copy of all telegrams, papers and correspondence in the possession of the Post Office Department, or with any of the officials thereof, regarding the removal from office of the postmaster of Osage, Saskatchewan, and of the appointment of a successor thereto, and of all correspondence bearing upon the said removal or appointment with the post office inspector for that portion of the province of Saskatchewan, and of all other letters and documents with respect thereto. Presented January 22, 1914.—*Mr. Curran*..... *Not printed.*
448. Return to an Order of the House of the 29th January, 1913, for a copy of all letters, petitions, telegrams, complaints, evidence, reports and other papers and documents in the possession of the Post Office Department, or any department of the Government, relating to the dismissal of George Taylor, postmaster at Bekerton, N.S., and if there was an investigation on the names of all witnesses examined, a copy of the evidence and a detailed statement of the expenses of such investigation. Presented January 22, 1914. *Mr. Sinclair*..... *Not printed.*
449. Return to an Order of the House of the 21st April, 1913, for a copy of all correspondence, telegrams, complaints, affidavits, reports, recommendations, requests, certificates and other documents, relating to the dismissal of Mademoiselle Paul Hus, as postmistress of the Parish Ste. Victoire, County of Richelieu, and the appointment of Mr. Paul Barbier, of the same place, as postmaster. Presented January 22, 1914.—*Mr. Carlin*..... *Not printed.*
444. Return to an Order of the House of the 3rd March, 1913, for a copy of all charges, correspondence, letters, telegrams and other documents relating to the dismissal of Parker S. Hart, postmaster at South Manchester, Guysborough County, N.S., and of all evidence taken and report of investigation held by H. P. Duchemin in regard to the same, and also a detailed statement of the expenses of such investigation. Presented January 22, 1914.—*Mr. Sinclair*..... *Not printed.*
444. Return to an Order of the House of the 17th February, 1913, for a copy of all complaints and charges made against Charles L. Gass, late postmaster at Bayfield, Antigonish County, of the evidence taken, if any, before Commissioner Duchemin, and of his report thereon, and of all letters, telegrams and documents of every kind relating to his dismissal and the appointment of his successor. Presented January 22, 1914.—*Mr. Chisholm (Antigonish)*..... *Not printed.*
444. Return to an Order of the House of the 27th January, 1913, for a copy of all documents, correspondence, letters, reports, &c., relating to the dismissal of Madame Belzil, postmistress at St. Octave, County of Rimouski, and the appointment of her successor. Presented January 22, 1914.—*Mr. Lapointe (Kamouraski)*..... *Not printed.*
444. Return to an Order of the House of the 9th April, 1913, for a copy of all charges, correspondence, telegrams and other documents relating to the dismissal of John McDonnell, postmaster at Essex, Inverness County, Nova Scotia. Presented January 22, 1914.—*Mr. Chisholm (Inverness)*..... *Not printed.*
444. Return to an Order of the House of the 31st March, 1913, for a copy of all letters, telegrams and documents in connection with the dismissal of James Rain, from the postmastership of Ninga post office, Ninga, Manitoba. Presented January 22, 1914.—*Mr. Turriff*..... *Not printed.*

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- 44y.** Return to an Order of the House of the 9th April, 1913, for a copy of all letters, petitions, telegrams, complaints, reports and other papers and documents in the possession of the Post Office Department, relating to the dismissal of William McKinnon, postmaster at Erinville, Guysborough County, N.S., and the appointment of Daniel Kenny as successor; and if there was an investigation in connection with the dismissal of the said William McKinnon, the names of all witnesses examined, a copy of the evidence and report of the commissioner, and a detailed statement of the expenses of such investigation. Presented January 22, 1914.—*Mr. Sinclair*.....*Not printed.*
- 44z.** Return to an Order of the House of the 7th May, 1913, for a copy of all correspondence, evidence and reports in connection with the dismissal of J. N. Cloutier, postmaster at St. Benoit Labre, County of Beauce, Quebec. Presented January 22, 1914.—*Mr. Béland*.....*Not printed.*
- 44 (2a).** Return to an Order of the House of the 12th February, 1913, for a copy of all letters, telegrams, papers and documents relative to the dismissal of Mrs. Weave, postmistress at Coal Creek, Queens County, N.E., and of the appointment of Michael L. Knox. Presented January 22, 1914.—*Mr. McLean (Sunbury)*.....*Not printed.*
- 44 (2b).** Return to an Order of the House of the 26th May, 1913, for a copy of all correspondence and documents of any kind whatsoever relating to the dismissal of postmasters in Bonaventure County, by the present administration, not already ordered and brought down. Presented January 22, 1914.—*Mr. Marcell (Bonaventure)*.....*Not printed.*
- 44 (2c).** Return to an Order of the House of the 28th April, 1913, for a copy of all petitions, complaints, and correspondence containing any charges against Alexander Fraser, postmaster at Fraser's Grant, Antigonish County, N.S., and of all other documents and correspondence on the file in relation thereto. Presented January 22, 1914.—*Mr. Chisholm (Antigonish)*.....*Not printed.*
- 44 (2d).** Partial return to an Order of the House of the 10th December, 1912, for a return showing all public officers removed by the present Government in the District of Portneuf, together with the name and duties of each person, the reasons for their dismissal, the nature of the complaints brought against them, also a copy of all correspondence relating thereto and reports of inquiries in cases where such were held. Presented January 22, 1914.—*Mr. Delisle*.....*Not printed.*
- 44 (2e).** Return to an Order of the House of the 15th January, 1913, for a return showing a list of the postmasters dismissed or removed by the present Government in the County of Two Mountains, the names of such persons, the reason for their dismissal, the nature of the complaints brought against them, and a copy of all correspondence and petitions relating thereto, and reports of inquiry in the cases where such have been held; also the names of their successors. Presented January 22, 1914.—*Mr. Ethier*....*Not printed.*
- 44 (2f).** Return to an Order of the House of the 15th January, 1913, for a copy of all charges, correspondence, letters, telegrams and other documents relative to the dismissal of Thomas Chalmer McLean, postmaster at Ivera, Middle River, Riding of North Cape Breton and Victoria, N.S., and of the evidence taken and reports of investigation held by H. P. Duchemin in regard to the same, and a detailed statement of the expenses of such investigation. Presented January 22, 1914.—*Mr. McKenzie*.....*Not printed.*
- 44 (2g).** Return to an Order of the House of the 29th January, 1913, for a copy of all letters, telegrams, reports and other documents relative to the dismissal of C. P. Blanchard, postmaster at Truro, Nova Scotia, and the appointment of his successor. Presented January 22, 1914.—*Mr. Macdonald*.....*Not printed.*
- 44 (2h).** Return to an Order of the House of the 29th January, 1913, for a copy of all papers, documents, evidence, reports, letters, correspondence, &c., relating to the dismissal of Samuel Atwood, Atwood's Brook, Shelburne County, N.S. Presented January 22, 1914.—*Mr. Law*.....*Not printed.*
- 44 (2i).** Return to an Order of the House of the 3rd February, 1913, for a return showing the names of the postmasters in the County of Berthier dismissed since the 21st September, 1911; their respective parishes, the date of their dismissals and the reason alleged; if an inquiry was held in each case; on whose recommendation were these dismissals made; the names of those appointed as their successors and on whose recommendation were they appointed. Presented January 22, 1914.—*Mr. Béland*.....*Not printed.*
- 44 (2j).** Return to an Order of the House of the 3rd March, 1913, for a copy of all complaints, accusations, correspondence, petitions and telegrams, respecting the dismissal of Wilfrid Pellemarre, postmaster at Hervey Junction, County of Portneuf, and of all documents respecting the appointment of his successor, such as petitions, letters of recommendation, &c., and also of the evidence and reports made after the inquiry held by the inquiring commissioner; together with a detailed statement of the expenses caused by this inquiry. Presented January 22, 1914.—*Mr. Delisle*.....*Not printed.*

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- 44 (2k). Return to an Order of the House of the 16th February, 1913, for a copy of all letters, petitions, telegrams, complaints, evidence, reports and other papers and documents in the possession of the Post Office Department, or any department of the Government, relating to the dismissal of Rufus D. Carrigan, postmaster at Sand Point, Guysborough County, N.S., and if there was an investigation, the names of all witnesses examined, and a detailed statement of the expenses of such investigation. Presented January 22, 1914. —*Mr. Sinclair* *Not printed.*
- 44 (2l). Return to an Order of the House of the 15th January, 1913, for a copy of all charges, correspondence, letters, telegrams and other documents relative to the dismissal of Daniel Dunlop, postmaster at New Campbellton, Riding of North Cape Breton and Victoria, N.S., and of the evidence taken and reports of the investigation held by H. P. Duchemin in regard to the same, and a detailed statement of the expenses of such investigation. Presented January 22, 1914. —*Mr. McKeown* *Not printed.*
- 44 (2m). Return to an Order of the House of the 9th April, 1913, for a copy of all charges, correspondence, telegrams and other documents relating to the dismissal of Duncan Cameron, postmaster at Craigmore, Inverness County, Nova Scotia. Presented January 22, 1914. —*Mr. Chisholm (Inverness)* *Not printed.*
- 44 (2n). Return to an Order of the House of the 29th January, 1913, for a copy of all letters, telegrams, reports, charges and other documents relating to the dismissal of Angus Cameron, late postmaster at Fairlight, Sask., and of the evidence taken at the investigation held by Mr. Dorsett. Presented January 22, 1914. —*Mr. Tomlin* *Not printed.*
- 44 (2o). Return to an Order of the House of the 15th January, 1913, for a copy of all documents, correspondence, petitions and telegrams respecting the dismissal of M. Saup, postmaster of St. Juvac, County of Terrebonne, and the appointment of his successor. Presented January 22, 1914. —*Mr. Eshier* *Not printed.*
- 44 (2p). Return to an Order of the House of the 2nd June, 1913, for a copy of all petitions, letters, telegrams and resolutions in connection with the charges made in the names of the post offices at Letches Creek Crossing and Letches Creek, North Cape Breton, N.S., the dismissal of Donald Johnston, the former postmaster at Letches Creek and the appointment of his successor. Presented January 22, 1914. —*Mr. McKeown* *Not printed.*
- 44 (2q). Return to an Order of the House of the 27th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence and other documents in any way relating to the dismissal of James McLees, postmaster at Bishop Mills, County of Grenville, Province of Ontario, and the appointment of his successor. Presented January 22, 1914. —*Mr. Proby* *Not printed.*
- 44 (2r). Return to an Order of the House of the 9th April, 1913, for a copy of all charges, correspondence, telegrams and other documents relating to the dismissal of Mrs. Sarah C. Ranken, postmistress at S. W. Ridge Mahon, Inverness County, Nova Scotia. Presented January 22, 1914. —*Mr. Chisholm (Inverness)* *Not printed.*
- 44 (2s). Partial Return to an Order of the House of the 19th March, 1913, for a Return showing in detail the number of dismissals from the public service during the period from June 22, 1896, to September 21, 1911, in the County of Cumberland, Nova Scotia, in connection with any department of the public service, together with the names of the dismissed officials or employees, their ages at the time of entering the public service, the length of their period of service with dates, the amount of their remuneration, the reason for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communication with respect to each such case of dismissal, and of all minutes of evidence on investigation, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the Government; also the names of all persons appointed to fill vacancies caused by such dismissals, the charges at the date of appointment, the amount of their remuneration, and the names of the persons by whom the same have been respectively recommended for appointment, together with a detailed statement of all amounts and expenses incurred by any department in connection with such dismissals and investigations or removal from office. Presented January 22, 1914. —*Mr. Rhodes* *Not printed.*
- 44 (2t). Partial Return to an Order of the House of the 29th April, 1913, for a Return showing all employees of the Dominion dismissed in the County of Three Rivers and St. Maurice since October 15, 1911, to date, the date of dismissal, the name of each man, the salary he was receiving at the time of his dismissal, the reason for dismissal, whether there has been an investigation or not, with the names and places of residence of the men appointed to replace them. Presented January 22, 1914. —*Mr. Brown* *Not printed.*
- 44 (2u). Partial Return to an Order of the House of the 19th December, 1912, for a return showing the number of dismissals from public offices by the present Government to this date in the constituency of Regina, together with the names of the dismissed officials, the reasons for their dismissals, the complaints against such officials, and a copy of all correspondence relating thereto and reports of inquiries in cases where such have been held in respect of the same. Presented January 22, 1914. —*Mr. Martin (Regina)* *Not printed.*

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- 44 (2v).** Return to an Order of the House of the 10th December, 1912, for a return showing all the public officers dismissed by the present Government in the electoral district of Kamouraska, with the names and duties of such persons respectively, the reason for their dismissal, the nature of the complaints brought against them, also of all correspondence relating thereto and reports of inquiries in cases where such have been held. Presented January 22, 1914.—*Mr. Lapointe (Kamouraska)*.....*Not printed.*
- 44 (2w).** Partial Return to an Order of the House of the 10th February, 1913, for a return showing in detail the number of dismissals from public offices by the present Government to this date in the County of Prince, Prince Edward Island, giving the names of the dismissed officials, the reasons for their dismissal, the complaints against such officials and a copy of all the correspondence with respect to the same and of all notes of evidence and reports of investigations where such were held; also the names of all parties appointed to fill the vacancies caused by such dismissals and the names of the persons by whom the same have been recommended for appointment. Presented January 22, 1914.—*Mr. Richards*.....*Not printed.*
- 44 (2x).** Return to an Order of the House of the 10th December, 1912, for a return showing the detail and number of dismissals from public offices by the present Government to this date in the riding of Strathcona, together with the names of the dismissed occupants, the reasons for their dismissal, the complaints against such officials, and a copy of all correspondence with respect to the same, and of all reports of investigations, where such were held. Presented January 22, 1914.—*Mr. Douglas*.....*Not printed.*
- 44 (2y).** Partial Return to an Order of the House of the 10th December, 1912, for a return showing the detail and number of dismissals from public offices by the present Government to this date in the riding of Saltcoats, Sask., together with the names of the dismissed occupants, the reasons for their dismissal, the complaints against such officials, and a copy of all correspondence with respect to the same, and all reports of investigations, in cases where such were held. Presented January 22, 1914.—*Mr. MacNutt*.
Not printed.
- 44 (2z).** Return to an Order of the House of the 28th April, 1913, for a return showing all employees dismissed in the County of Champlain since October 15, 1911, to date, the employment of each man, the salary each was receiving at the time of his dismissal, the reasons for dismissals, whether there has been any investigation or not, with the names and places of residence of the men appointed to replace them. Presented January 22, 1914.—*Mr. Bureau*.....*Not printed.*
- 44 (3a).** Return to an Order of the House of the 3rd March, 1913, for a return showing in detail the number of dismissals from public offices and position of employment, by the present Government since the 11th day of October, 1911, to this date, in the County of Cumberland, Nova Scotia, not including those for which returns have already been ordered, in connection with any of the departments of the public service; together with the names of the dismissed officials or employees, the reason for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the government; also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid by any department in connection with the said dismissals and investigations or removal from office. Presented January 22, 1914.—*Mr. Kyte*.....*Not printed.*
- 44 (3b).** Return to an Order of the House of the 3rd February, 1913, for a return showing in detail the number of dismissals from public offices and positions of employment, by the present Government since the first day of October, 1911, to this date, in the County of Westmorland, New Brunswick, in connection with any of the departments of the public service; together with the names of the dismissed officials or employees, the reason for their respective dismissals, the complaints or charges against them, and by whom made, save and except the case of George H. Cochrane, Collector of Customs at Moncton (the papers for which have been already moved for); together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of government, or of the Government Railways Managing Board, or of the officials of the Intercolonial and the Prince Edward Island Railway; also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid by any department in connection with the said dismissals and investigations or removals from office. Presented January 22, 1914.—*Mr. Emmerson*.....*Not printed.*

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- 44 (30).** Part of Return to an Order of the House of the 3rd March, 1913, for a return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the 11th day of October, 1911, to this date, in the County of Annapolis, Nova Scotia, in connection with any of the departments of the public service, but not in hiding cases in which orders have already passed, together with the names of the dismissed officials or employees, the reasons for their respective dismissals, the complaints or charges against them, and by whom made, together with a copy of all correspondence, letters, telegrams, and other communications with respect to each such case of dismissal, and of all minutes of evidence or investigations, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the Government; also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment, together with a detailed statement of all accounts and expenses paid by any department in connection with the said dismissals, and investigations or removals from office. Presented January 22, 1914.—*Mr. Chisholm (Antigonish)* *Not printed.*
- 44 (31)** Return to an Order of the House of the 21st April, 1913, for a return showing all employees dismissed in the County of New Brunswick before 15, 1911, to date, the date of dismissal, the employment of each man, the salary he was receiving at the time of dismissal, the reasons for dismissal, whether there has been an investigation or not, with the names and places of residence of the men appointed to replace them. Presented January 22, 1914.—*Mr. B. Chagnon* *Not printed.*
- 44 (32)** Return to an Order of the House of the 29th January, 1913, for a return showing in detail the number of dismissals from public offices by the present Government to this date in the constituency of Victoria, Albert, together with the names of the dismissed officials, the reasons of the dismissal, the complaints against such officials, and a copy of all correspondence with respect to the same, and all minutes of evidence and of the reports of investigating officers where such were held, and of the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been recommended for appointment. Presented January 22, 1914.—*Mr. White (Victoria)* *Not printed.*
- 44 (33)** Officials dismissed in the constituency of Shelburne and Queens, N.S. (Senator) *Not printed.*
- 44 (34)** Postmasters dismissed in the County of Antigonish, N.S. (Senator) *Not printed.*
- 44 (35)** Return to an Order of the House of the 29th January, 1913, for a copy of all charges, correspondence, letters, telegrams, and other documents relating to the dismissal of Dr. Eusebio O'Neil, from the office of post physician at Dorchester, Cape Breton South, Nova Scotia, and of the evidence taken and reports of investigation held by H. P. Duchemin in regard to the same. Presented January 26, 1914.—*Mr. Sinclair* *Not printed.*
- 44 (36)** Partial Return to an Order of the House of the 3rd March, 1913, for a return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the 11th day of October, 1911, to this date, in the County of Digby, Nova Scotia, in connection with any of the departments of the public service, but not in hiding cases in which orders have already passed, together with the names of the dismissed officials or employees, the reasons for their respective dismissals, the complaints or charges against them, and by whom made, together with a copy of all correspondence, letters, telegrams, and other communications with respect to each such case of dismissal, and of all minutes of evidence or investigations, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the Government; also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment, together with a detailed statement of all accounts and expenses paid by any department in connection with the said dismissals and investigations or removals from office. And also a supplementary return to an Order of the House of the 3rd March, 1913, for a return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the 11th day of October, 1911, to this date, in the County of Digby, Nova Scotia, in connection with any of the departments of the public service, but not in hiding cases in which orders have already passed, together with the names of the dismissed officials or employees, the reasons for their respective dismissals, the complaints or charges against them, and by whom made, together with a copy of all correspondence, letters, telegrams, and other communications with respect to each such case of dismissal, and of all minutes of evidence or investigations, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the Government; also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment, together with a detailed statement of all accounts and expenses paid by any department in connection with the said dismissals and investigations or removals from office. Presented January 22, 1914.—*Mr. Sinclair* *Not printed.*

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- 44 (3j).** Partial Return to an Order of the House of the 3rd March, 1913, for a return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the 11th day of October, 1911, to this date, in the constituency of Queen's, Shelburne, Nova Scotia, in connection with any of the departments of the public service, not including cases in which orders have already been passed; together with the names of the dismissed officials or employees, the reason for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations, where any such were held and of all reports relating to such dismissals now in the possession of any of the departments of the Government, also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid by any department in connection with the said dismissals and investigations of removals from office. Presented January 27, 1914.—*Mr. Law*.....*Not printed.*
- 44 (3k).** Partial Return to an Order of the House of the 19th March, 1913, for a list of public officers employed in the city of Quebec, in the Departments of Inland Revenue, Railways and Canals, the Transcontinental Railway, Customs, Immigration, Marine and Fisheries, Public Works and Militia, the names and duties of such persons, the reason for their dismissal, the nature of the complaints brought against them, also a copy of all correspondence relating thereto, and of reports of inquiry in the cases where such inquiries were held. Presented January 26, 1914.—*Mr. Lachance*.....*Not printed.*
- 44 (3l).** Return to an Order of the House of the 29th January, 1913, for a return showing all the public officers removed by the present Government in the District of L'Assomption, together with the names and duties of such persons, the reasons for their dismissal, the nature of the complaints brought against them; also a copy of all correspondence relating thereto and reports of inquiries in cases where such were held, with the names of the successors of the dismissed officers. Presented January 26, 1914.—*Mr. Seguin*.....*Not printed.*
- 44 (3m).** Further Supplementary Return to an Order of the House of the 7th February, 1912, for a return showing for each department of the Government the names, post office addresses, offices, employment, and salaries of all persons employed either in the inside or outside service thereof, and of such persons not in the Civil Service, employed by the Government in any department, on the tenth day of October, 1911, who have been removed from office or employment by dismissal; specifying in each case the manner of and grounds of such dismissals and the length of notice given to the persons removed, and also indicating in each case whether an inquiry was or was not held prior to such dismissal. Presented January 26, 1914.—*Mr. Kyte*.....*Not printed.*
- 44 (3n).** Supplementary Return to an Order of the House of the 3rd March, 1913, for a return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the 11th day of October, 1911, to this date, in the County of Digby, Nova Scotia, in connection with any of the departments of the public service, but not including cases in which orders have already passed; together with the names of the dismissed officials or employees, the reasons for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the Government; also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all accounts and expenses paid by any department in connection with the said dismissals and investigations or removals from office. Presented January 28, 1914.—*Mr. Sinclair*.....*Not printed.*
- 44 (3o).** Return to an Order of the House of the 26th May, 1913, for a copy of all correspondence, telegrams, inquiries and reports respecting the dismissal of Philius Hable, light-keeper at St. Louis de Lotbinière, County of Lotbinière, Quebec. Presented February 4, 1914.—*Mr. Fortier*.....*Not printed.*
- 44 (3p).** Return to an Order of the House of the 19th May, 1913, for a copy of all correspondence, complaints, petitions and reports connected with the dismissal of Fishery Overseer Ménéault at Seven Islands, and the appointment in his place of Elzéar Levesque. Presented February 10, 1914.—*Mr. Béland*.....*Not printed.*
- 44 (3q).** Return to an Order of the House of the 28th April, 1913, for a return showing all employees dismissed in the County of Maskinonge, since October 15, 1911, to date, the date of dismissal, the employment of each man, the salary he was receiving at the time of his dismissal, the reasons for dismissal, whether there has been investigation or not, and the names and places of residence of the men appointed to replace them. Presented February 10, 1914.—*Mr. Bureau*.....*Not printed.*

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- 44 (3r).** Partial Return to an Order of the House of the 3rd March, 1913, for a return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the 11th day of October, 1911, to this date, in the County of Kings, Province of Nova Scotia, in connection with any of the departments of the public service, not including cases in which orders have already passed; together with the names of the dismissed officials or employees, the reason for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the Government; also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid, or to be paid, by any department in connection with the said dismissals and investigations or removals from office. Presented February 10, 1914. *Mr. McKenzie*.....Not printed.
- 44 (3s).** Return to an Order of the House of the 3rd March, 1913, for a return showing in detail the number of dismissals from public office and positions of employment by the present Government since the 11th day of October, 1911, to this date, in the County of Colchester, Nova Scotia, in connection with any of the departments of the public service; together with the names of the dismissed officials or employees, the reasons for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations, where any such were held, and of all reports relating to such dismissals, now in the possession of any of the departments of the Government; also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid by any department in connection with the said dismissals and investigations or removals from office. Presented February 10, 1914. *Mr. Macdonald*.....Not printed.
- 44 (3t).** Return to an Order of the House of the 3rd March, 1913, for a return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the 11th day of October, 1911, to this date, in the County of Hants, Nova Scotia, in connection with any of the departments of the public service, not including cases in which orders have already passed; together with the name of the dismissed officials or employees, the reason for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the Government; also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid by any department in connection with the said dismissals and investigations or removals from office. Presented February 10, 1914.—*Mr. Chisholm (Inverness)*.....Not printed.
- 44 (3u).** Return to an Order of the House of the 19th December, 1912, for a copy of all correspondence, documents, recommendations, and reports concerning the dismissal of Miss Eugenie Dorion, an employee in the office of the post office inspector at Quebec; the reasons for her dismissal, the nature of the complaints brought against her, if any, the names of the persons who brought these complaints, also a copy of all correspondence relating thereto, and the report of inquiry, if there was one held. Presented February 20, 1914.—*Mr. Wilson (Laval)*.....Not printed.
- 44 (3v).** Return to Order of the House of the 2nd February, 1914, for a copy of all charges, correspondence, letters, telegrams and other documents in the possession of the Post Office Department, relating to the dismissal of James R. Luang, postmaster at Liscombe, N.S., and of the facts taken, and report of investigation in regard to the same, if any, a detailed statement of the expenses of such investigation, together with a copy of all recommendations, letters, telegrams, and other papers relating to the appointment of his successor. Presented February 23, 1914.—*Mr. Sinclair*.....Not printed.
- 44 (3w).** Return to an Order of the House of the 5th June, 1913, for a copy of all correspondence, papers, &c., in connection with the dismissal of Mr. A. L. Desève, officer in charge of the fishery hatchery at Magog, Quebec, and the appointment of Mr. L. A. Audet to the said position. Presented February 23, 1914.—*Sir W. Laurier*.....Not printed.
- 44 (3x).** Return to an Order of the House of the 9th February, 1914, for a copy of all correspondence, telegrams and other documents relating to the removal of Jas. T. Richardson as sub-Collector of Customs at Humboldt, Saskatchewan, and the appointment of a successor. Presented February 23, 1914. *Mr. Newly*.....Not printed.

CONTENTS OF VOLUME 28—Continued.

- 44 (3y).** Supplementary Return to an Order of the House of the 10th December, 1912, for a return showing the number of dismissals from public offices by the present Government to this date in the constituency of Regina, together with the names of the dismissed officials, the reasons for their dismissals, the complaints against such officials, and a copy of all correspondence with respect to the same, and of all reports of any investigations held in respect of the same. Presented February 24, 1914.—*Mr. Martin (Regina)* *Not printed.*
- 44 (3z).** Return to an Order of the House of the 9th February, 1914, for a copy of all papers, documents, correspondence, &c., in connection with the dismissal of Mr. Hicks, of Bridgetown, N.S., from the customs service in 1913. Presented February 24, 1914.—*Mr. Maclean (Halifax)* *Not printed.*
- 44 (4a).** Return to an Order of the House of the 16th February, 1914, for a copy of all letters, petitions, telegrams, complaints, evidence, reports and other papers and documents in the possession of the Customs Department, relating to the dismissal of Ralph Harris, sub-collector of customs at Pelee Island, Ont., and if there was an investigation, the names of all the witnesses, and a copy of the evidence; and also of all the papers connected with the appointment of his successor. Presented February 26, 1914.—*Mr. Clarke (Essex)* *Not printed.*
- 44 (4b).** Return to an Order of the House of the 16th February, 1914, for a copy of all letters, petitions, telegrams, complaints, evidence, reports and other papers and documents in the possession of the Customs Department, relating to the dismissal of Aylmer Orton, customs officer at Windsor, Ont., and if there was an investigation, the names of all the witnesses, and a copy of the evidence; and also of all the papers connected with the appointment of his successor. Presented February 26, 1914.—*Mr. Clarke (Essex)* *Not printed.*
- 44 (4c).** Return to an Order of the House of the 16th February, 1914, for a copy of all letters, petitions, telegrams, complaints, evidence, reports and other papers and documents in the possession of the Customs Department, relating to the dismissal of Frederick Forster, sub-collector of customs at Kingsville, Ont., and if there was an investigation, the names of all the witnesses, and a copy of the evidence; and also of all the papers connected with the appointment of his successor. Presented February 26, 1914.—*Mr. Clarke (Essex)* *Not printed.*
- 44 (4d).** Return to an Order of the House of the 16th February, 1914, for a copy of all letters, petitions, telegrams, complaints, evidence, reports and other papers and documents in the possession of the Interior Department, relating to the dismissal of Andrew Darragh, immigration officer at Windsor, Ont., and if there was an investigation, the names of all the witnesses, and a copy of the evidence; and also of all the papers connected with the appointment of his successor. Presented March 2, 1914.—*Mr. Clarke (Essex)* *Not printed.*
- 44 (4e).** Return to an Order of the House of the 16th February, 1914, for a copy of all letters, petitions, telegrams, complaints, evidence, reports and other papers and documents in the possession of the Interior Department, relating to the dismissal of John Halstead, immigration officer at Windsor, Ont., and if there was an investigation, the names of all the witnesses, and a copy of the evidence; and also of all the papers connected with the appointment of his successor. Presented March 2, 1914.—*Mr. Clarke (Essex)* *Not printed.*
- 44 (4f).** Return to an Order of the House of the 26th May, 1913, for a copy of all correspondence, telegrams, inquiries, and reports, respecting the dismissal of Napoleon Daigle, lighthouse keeper at Barre à Boulard, Parish of St. Louis de Lotbinière, Quebec. Presented March 2, 1914.—*Mr. Fortier* *Not printed.*
- 44 (4g).** Supplementary Return to an Order of the House of the 19th March, 1913, for a return showing in detail the number of dismissals from the public service during the period from June 23, 1896, to September 21, 1911, in the County of Cumberland, Nova Scotia, in connection with any department of the public service; together with the names of the dismissed officials or employees, their ages at the time of entering the public service, the length of their period of service with dates, the amount of their remuneration, the reason for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissals, and of all minutes of evidence on investigation, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the government; also the names of all persons appointed to fill vacancies caused by such dismissals, their ages at the date of appointment, the amount of their remuneration, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid by any department in connection with said dismissals and investigations or removal from office. Presented March 2, 1914.—*Mr. Rhodes* *Not printed.*

CONTENTS OF VOLUME 28—Continued.

- 44 (4h). Return to an Order of the House of the 16th February, 1914, for a copy of all letters, petitions, telegrams, complaints, evidence, reports and other papers and documents in the possession of the Department of the Postmaster General, relating to the dismissal of James H. Smart, postmaster at Kingsville, Ont., and if there was an investigation, the names of all the witnesses and a copy of the evidence, and also of all the reports connected with the appointment of his successor. Presented March 2, 1914. *Mr. Clark (Essex)* *Not printed.*
- 44 (4i). Return to an Order of the House of the 11th February, 1914, for a copy of all papers, letters and documents of every kind relating to the dismissal of John A. Roy from the position of postmaster at Matland, County of Hants. Presented March 2, 1914. *Mr. Macdonald* *Not printed.*
- 44 (4j). Return to an Order of the House of the 11th February, 1914, for a copy of all papers, letters and documents of every kind relating to the dismissal of Thomas Nelson, from the position of postmaster at Scotch Village, County of Hants. Presented March 2, 1914. *Mr. Macdonald* *Not printed.*
- 44 (4k). Return to an Order of the House of the 11th February, 1914, for a copy of all papers, letters and documents of every kind relating to the dismissal of Albert M. Hefley from the position of postmaster at Shubenacadie, County of Hants. Presented March 2, 1914. *Mr. Macdonald* *Not printed.*
- 44 (4l). Return to an Order of the House of the 11th February, 1914, for a copy of all papers, letters and documents of every kind relating to the dismissal of Steward MacPherson from the position of postmaster at Bridgetown, County of Hants. Presented March 2, 1914. *Mr. Macdonald* *Not printed.*
- 44 (4m). Return to an Order of the House of the 2nd February, 1914, for a return showing in detail the number of dismissals from public offices and positions of an inferior grade in the present Government since the first day of February, 1911, to date, in the Courts of Westminster, New Brunswick, in connection with any of the departments of the Public Service, except the Post Office Department, together with the names of the dismissed officials or employees, the reasons for their respective dismissals, the complaints or charges against them, and by whom made, together with a copy of all correspondence, letters, telegrams and other communications with respect to each dismissal, and of all minutes of evidence of investigations, where and when held, and of all reports relating to such dismissals now in the possession of any of the departments of the Government, or of the Government Railway Management Board, or of the officials of the Intercolonial and the Prince Edward Island Railways, also the names of all officers appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment, together with a detailed statement of all amounts and expenses paid by any department or institution with the said dismissals, and investigations or removals from office. Presented March 3, 1914. *Mr. Funnell* *Not printed.*
- 44 (4n). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and other communications in any way relating to the dismissal of D. Dushow, employee of the Marine Department at Prescott, Ontario. Presented March 3, 1914. *Mr. Turritt* *Not printed.*
- 44 (4o). Return to an Order of the House of the 11th February, 1914, for a copy of all papers, letters and documents of every kind relative to the dismissal of A. Marshall Russel from the position of caretaker of the drill hall at Woodside, County of Hants. Presented March 3, 1914. *Mr. Macdonald (Hants)* *Not printed.*
- 44 (4p). Return to an Order of the House of the 2nd February, 1914, for a copy of all charges, correspondence, letters, telegrams and other documents relating to the dismissal of Mr. A. Gouette, postmaster at St. Valentin de M. Den, Saguenay County, Quebec, and of the evidence taken, and of the reports of investigation held by Dr. W. L. Shurtleff connected to the same. Presented March 5, 1914. *Mr. Boivin* *Not printed.*
- 44 (4q). Return to an Order of the House of the 21st April, 1913, for a copy of the evidence and report in the investigation held by Mr. W. A. E. Flynn, in the case of P. D. Bourdages, keeper of the lighthouse at Bonaventure Point, together of the charges made against the said Bourdages by Ovide Bourdages, Raymond Bourdages, Florie Heagy, J. A. Moisseau and D. Champoux. Presented March 5, 1914. *Mr. Macdonald (Bonaventure)* *Not printed.*
- 44 (4r). Return to an Order of the House of the 21st April, 1913, for a copy of the charges made by Messrs. W. S. Montgomery, J. I. Boudreau, N. Boivin, J. A. Moisseau, N. Boudreau, against Louis Bujold, keeper of the lighthouse at Charlton Point, Quebec. Presented March 5, 1914. *Mr. Macdonald (Bonaventure)* *Not printed.*
- 44 (4s). Return to an Order of the House of the 11th February, 1914, for a return showing reasons for the dismissal of Mr. Shubert, caretaker of the Inspection Hall at Hiramston, the date of his appointment and of dismissal, and salary at time of dismissal, also the name of caretaker appointed in his place, with date of appointment, salary and qualifications. Presented March 6, 1914. *Mr. Oliver* *Not printed.*

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- 44 (4f). Return to an Order of the House of the 11th February, 1914, for a return showing the reasons for the dismissal of Mr. Webster, immigration agent at Edmonton; the date of his appointment and of dismissal, and salary at time of dismissal; also the name of the agent appointed in his place, with date of appointment, salary and qualifications? Presented March 6, 1914.—*Mr. Oliver*.....*Not printed.*
- 44 (4g). Return to an Order of the House of the 11th February, 1914, for a return showing reasons for the dismissal of Jacob Mohr, interpreter for the immigration agency at Edmonton; the date of his appointment and of dismissal, and salary at time of dismissal; also the name of the interpreter appointed in his place with date of appointment, salary and qualifications. Presented March 6, 1914.—*Mr. Oliver*.....*Not printed.*
- 44 (4h). Return to an Order of the House of the 11th February, 1914, for a return showing reasons for the dismissal of Mr. P. Tomkins, Dominion Lands Agent at Grouard, the date of his appointment and of dismissal, and salary at time of dismissal; also the name of agent appointed in his place, with date of appointment and salary. Presented March 6, 1914.—*Mr. Oliver*.....*Not printed.*
- 44 (4i). Return to an Order of the House of the 2nd February, 1914, for a copy of all documents bearing upon dismissals and appointments of officials of the Inland Revenue Department in Bonaventure County since January 1, 1913, to date; together with a statement showing the salaries, emoluments and amounts paid to the new appointees since appointment, compared with amounts paid officials for corresponding periods in 1911 and 1912. Presented March 6, 1914.—*Mr. Marcell (Bonaventure)*....*Not printed.*
- 44 (4j). Return to an Order of the House of the 2nd February, 1914, for a copy of all charges, correspondence, letters, telegrams and other documents relating to the dismissal of Mr. Arthur Dupuis, postmaster at Pontbriand, County of Megantic, Quebec, and of the evidence taken and of the reports of investigation held by Dr. W. L. Shurtleff in regard to the same. Presented March 6, 1914.—*Mr. Pacaud*.....*Not printed.*
- 44 (4k). Return to an Order of the House of the 2nd February, 1914, for a copy of all correspondence, letters, telegrams, petitions and other documents relating to the dismissal of Jos. Serguis Archambault, as postmaster of the town of Terrebonne, and to the appointment of George Beausoleil, as his successor. Presented March 6, 1914.
Mr. Seguin*Not printed.*
- 44 (4l). Return to an Order of the House of the 2nd February, 1914, for a copy of all correspondence, letters, telegrams, reports and all other papers relating to the dismissal of Martin Lanigan, postmaster at Sexton, County of Kent, New Brunswick, and of the minutes of evidence of any investigation or inquiry held relating to the said dismissal, and of all and any charges and recommendations connected therewith; also a copy of all letters written to the Postmaster General or to any official of the Post Office Department, by F. J. Robidoux, M.P., or by any other person relating to the said dismissal. Presented March 6, 1914.—*Mr. Emmerson*.....*Not printed.*
- 44 (5a). Return to an Order of the House of the 2nd February, 1914, for a copy of all documents, letters, correspondence and petitions asking for the dismissal of Mr. Felix Raymond, postmaster at Ste. Scholastique Village, County of Two Mountains, together with everything in connection with such dismissal. Presented March 6, 1914.—*Mr. Ethier*.
Not printed.
- 44 (5b). Return to an Order of the House of the 16th February, 1914, for a copy of all papers in connection with the sub-lands agency in Gravelburg, Saskatchewan. Presented March 10, 1914.—*Mr. Knowles*.....*Not printed.*
- 44 (5c). Further Supplementary Return to an Order of the House of the 3rd March, 1913, for a return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the 11th of October, 1911, to this date, in the County of King's, Province of Nova Scotia, in connection with any of the departments of the public service, not including cases in which orders have already passed; together with the names of the dismissed officials or employees, the reason for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the Government, also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid, or to be paid, by any department in connection with the said dismissals and investigations or removals from office. Presented March 10, 1914.—*Mr. McKenzie*.....*Not printed.*
- 44 (5d). Return to an Order of the House of the 11th February, 1914, for a copy of all papers, telegrams, correspondence and petitions in any way referring to the dismissal of the postmaster at Ainslie Glen, Inverness County, and the appointment of Neil McKinnon to said office. Presented March 12, 1914.—*Mr. Chisholm (Inverness)*.
Not printed.

CONTENTS OF VOLUME 28—Continued.

- 44 (5e). Return to an Order of the House of the 3rd February, 1914, for a copy of all papers, documents, correspondence, letters, &c., since October 1, 1911, relating to the appointment of a postmaster at Upper Onond, Shelburne County, N.S. Presented March 12, 1914. *Mr. Maclean (Halifax)*. *Not printed.*
- 44 (5f). Return to an Order of the House of the 9th February, 1914, for a copy of all papers, documents, correspondence, letters, and telegrams, relating to the dismissal of Jos. H. Lefebvre, postmaster at Howick Station, County of Chateauguy, and the appointment of his successor. Presented March 12, 1914. *Mr. Robb*. *Not printed.*
- 44 (5g). Return to an Order of the House of the 11th February, 1914, for a copy of all correspondence, letters, telegrams, petitions and other documents in any way connected with the dismissal of the postmaster at Alexander, Inverness County, and the appointment of a successor. Presented March 12, 1914—*Mr. Ch. Robb (Inverness)*. *Not printed.*
- 44 (5h). Return to an Order of the House of the 2nd February, 1914, for a copy of all copies of letters, telegrams, reports, and documents of all kinds in possession of the Government or any department thereof, in any way relating to the employment of and dismissal from the service of a Surveyor of the Province, N.H.W. Lewis, North West Margaree, Inverness County, N.S. Presented March 12, 1914. *Mr. Ch. Robb (Inverness)*. *Not printed.*
- 44 (5i). Return to an Order of the House of the 14th January, 1914, for a copy of all letters, documents, telegrams, reports, and correspondence in any way relating to the dismissal of M. Bony, postmaster at the Mill, Inverness County, Ontario. Presented March 17, 1914. *Mr. Bony*. *Not printed.*
- 44 (5j). Return to an Order of the House of the 15th February, 1914, for a copy of all letters, documents, telegrams, reports, and correspondence in any way relating to the dismissal of W. G. Grant, postmaster at the Mill, Inverness County, Ontario. Presented March 12, 1914. *Mr. Bony*. *Not printed.*
- 44 (5k). Return to an Order of the House of the 9th February, 1914, for a copy of all letters, and telegrams, in connection with the dismissal of the postmaster at Fletchdale, Saskatchewan, and the appointment of the successor. Presented March 17, 1914. *Mr. Bony*. *Not printed.*
- 44 (5l). Return to an Order of the House of the 24 February, 1914, for a return showing in detail the number of dismissals, or removals, of postmasters, and the names of all postmasters, the names of the clerks of the stations, and the names of the dismissed postmasters, or postmistresses, the names of the clerks, and a copy of the reports or comments and of any other correspondence, in connection with the names of the dismissed postmasters, and of all other documents, petitions, reports, protests and other documents, and of all notes, explanatory of the reports or investigations where such were held, relating thereto, and the reports of inspectors to fill such notes as respect value of loss, where such were reported to fill the value in cases caused by such dismissals, and of the persons by whom the same respectively were recommended for appointment. Presented March 17, 1914. *Mr. Emerson*. *Not printed.*
- 44 (5m). Return to an Order of the House of the 16th February, 1914, for a return showing the name of the postmaster at the Post Office of St. Hubert, Le Lanigan, County of Léves, who, it is said, was dismissed from the said Station, September, 1911, the reasons for such dismissal, the name of the agent who made a request for the names of the parties who made those complaints, together with a copy of all correspondence and telegrams relating thereto, the name of the investigating commissioner, and report of investigation, if any, and of all evidence taken at the investigation, the names of those who recommended the successor, names of the parties by whom the charges were represented, at such investigation, with a list of a statement of all the amounts paid for to be held by any department in connection with the investigation, and investigation, the names of the parties who received or were granted their amounts in connection with said investigation, and the amount awarded to or claimed by each of them. Presented March 17, 1914. *Mr. Bony*. *Not printed.*
- 44 (5n). Return to an Order of the House of the 27th February, 1914, for a copy of all letters, petitions, telegrams, evidence, reports, and documents in the possession of the Post Office Department or any other department, relating to the dismissal of Geo. Skates, postmaster at Appleton, Ontario; and if there was a suggestion, the name of the investigator and witnesses, a copy of the evidence and of letters, papers, petitions, recommendations and other documents connected with the appointment of Mr. Skates' successor. Presented March 17, 1914. *Mr. Ross*. *Not printed.*
- 44 (5o). Return to an Order of the House of the 20th March, 1914, for a copy of all charges, correspondence, letters, telegrams and other documents relating to the dismissal of Geo. J. Ryan and Charles Hamlin from the Clerkship of the Service at Newport, Vermont, and of the appointment of Charles A. Thayer and Frank S. Baker to the said positions. Presented March 20, 1914. *Mr. Bony*. *Not printed.*

CONTENTS OF VOLUME 28—Continued.

- 44 (5p).** Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations, in any way relating to the dismissal of J. Shaver, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Law*.....*Not printed.*
- 44 (5q).** Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of R. Lunay, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Carroll*.....*Not printed.*
- 44 (5r).** Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of J. Slattery, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Bland*.....*Not printed.*
- 44 (5s).** Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of J. Walsh, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Chisholm (Inverness)*.....*Not printed.*
- 44 (5t).** Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of W. Gerts, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Wilson (Laval)*.....*Not printed.*
- 44 (5u).** Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of D. Boivard, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Kyte*.....*Not printed.*
- 44 (5v).** Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of G. Scott, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Nesbitt*.....*Not printed.*
- 44 (5w).** Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of J. Offspring, employee of the Marine shipyard at Prescott Ontario. Presented March 20, 1914.—*Mr. Warwick*.....*Not printed.*
- 44 (5x).** Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of J. Hayes, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Turriff*.....*Not printed.*
- 44 (5y).** Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of P. Belanger, from the service of the Marine Department at Prescott, Ontario. Presented March 20, 1914.—*Mr. Proulx*.....*Not printed.*
- 44 (5z).** Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of L. Place, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Pacaud*.....*Not printed.*
- 44 (6a).** Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of C. Kavanagh, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Carvell*.....*Not printed.*
- 44 (6b).** Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of J. Roche, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Sinclair*.....*Not printed.*
- 44 (6c).** Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of J. McInnis, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. McCoig*.....*Not printed.*
- 44 (6d).** Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of E. Scott, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Demers*.....*Not printed.*
- 44 (6e).** Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of C. Wright, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Clark (R-d Decr)*.....*Not printed.*
- 44 (6f).** Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of L. Lalonde, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Bureau*.....*Not printed.*

CONTENTS OF VOLUME 28—Continued.

- 44 (59).** Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of H. Binks, employee of the Marine shipyard at Prescott, Ontario. Presented March 29, 1914. *Mr. Chariton*.....Not printed.
- 44 (60).** Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of W. Jarvis, employee of the Marine shipyard at Prescott, Ontario. Presented March 29, 1914. *Mr. Gauvreau*.....Not printed.
- 44 (61).** Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of J. McDermost, employee of the Marine shipyard at Prescott, Ontario. Presented March 23, 1914. *Mr. Dechin*.....Not printed.
- 44 (62).** Return to an Order of the House of the 27th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of George L. Brown, officer in charge of the Dominion lighthouse, Prescott Depot, Ontario, and the appointment of his successor. Presented March 23, 1914. *Mr. Proutz*.....Not printed.
- 44 (63).** Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of J. Lane, employee of the Marine shipyard at Prescott, Ontario. Presented March 23, 1914. *Mr. MacNutt*.....Not printed.
- 44 (64).** Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of D. Ferrin, employee of the Marine shipyard at Prescott, Ontario. Presented March 23, 1914. *Mr. Lemieux*.....Not printed.
- 44 (65).** Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of J. A. Maudie, employee of the Marine shipyard at Prescott, Ontario. Presented March 23, 1914. *Mr. Marboan (Halifax)*.....Not printed.
- 44 (66).** Return to an Order of the House of the 15th February, 1914, for a return showing the name of the postmaster of the Parish of St. Lambert, County of Lévis, who it is stated, was dismissed from office since September, 1911, the reasons for such dismissal, the nature of the complaints made against him, the names of the parties who make those complaints, together with a copy of all correspondence and telegrams relating thereto, the name of the Inquiring Commissioner, and report of investigation if any, and of all evidence taken at the investigation, the names of those who recommended the successor, names of the parties by whom the Government was represented at such investigation, with a detailed statement of all the amounts paid or to be paid by any department in connection with the aforesaid dismissal and investigation, the names of the parties who received any money or filed their claims in connection with said investigation and the amount awarded to or claimed by each of them. Presented March 23, 1914. *Mr. Bourassa*.....Not printed.
- 44 (67).** Return to an Order of the House of the 2nd February, 1914, for a return showing the changes in postmaster-ships in Bonaventure County from January 1, 1913, to date, with a list of dismissals, and reasons therefor, and of new appointments, also a copy of all reports, correspondence, petitions and documents generally bearing on this subject; together with a list of post office contracts cancelled in said constituency, with reasons therefor, if any, and of new contracts awarded, with the old rate and the new, and whether tenders were called for, in each case, and whether contracts were awarded to lowest tenderer or not. Presented March 23, 1914. *Mr. Mead (Bonaventure)*.....Not printed.
- 44 (68).** Return to an Order of the House of the 2nd February, 1914, for a return of all reports, memorials, correspondence and documents generally bearing on the dismissal of customs officials in Bonaventure county from January 1, 1913, to date, together with a statement of salaries paid to old and new officials, and a copy of recommendations on which new officials were appointed, if any. Presented March 23, 1914. *Mr. Mead (Bonaventure)*.....Not printed.
- 44 (69).** Return to an Order of the House of the 2nd February, 1914, for a return showing in detail the number of dismissals from office since October 1, 1911, not already brought down, of postmasters in the County of Albert, New Brunswick, together with the names of the dismissed postmasters, the reason of their dismissal, and a copy of the charges or complaints against such officials respectively, also a copy of all correspondence, recommendations, petitions, protests and other documents, and of all notes of evidence and of the reports of investigations, where such were held with respect to the same or relating thereto, or to the appointment of successors to fill such offices respectively. And also the names of all persons appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same were respectively recommended for appointment. Presented March 23, 1914. *Mr. Emmerson*.....Not printed.

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- 44 (6r).** Supplementary Return to an Order of the House of the 3rd March, 1913, for a return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the 11th day of October, 1911, to this date, in the constituency of Queen's, Shelburne, Nova Scotia, in connection with any of the departments of the public service, not including cases in which orders have already been passed; together with the names of the dismissed officials or employees, the reason for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations, where any such were held and of all reports relating to such dismissals now in the possession of any of the departments of the Government, also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same may have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid by any department in connection with the said dismissals and investigations or removals from office. Presented March 26, 1914.—*Mr. Law*.....Not printed.
- 44 (6s).** Supplementary Return to an Order of the House of the 16th December, 1912, for a return showing all the public officers dismissed by the present Government in the electoral district of Kamouraska, with the names and duties of such persons respectively, the reason for their dismissal, the nature of the complaints brought against them, also of all correspondence relating thereto and reports of inquiries in cases where such have been held. Presented March 26, 1914.—*Mr. Lapointe (Kamouraska)*.....Not printed.
- 44 (6t).** Return to an Order of the House of the 16th February, 1914, for a return showing the name of the postmaster of the Parish of Notre Dame de Charny, County of Lévis, who, it is stated, was dismissed from office since September, 1911, the reasons for such dismissal, the nature of the complaints made against him, the names of the parties who made those complaints, together with a copy of all correspondence and telegrams relating thereto, the name of the inquiring commissioner, and report of investigation, if any, and of all evidence taken at the investigation, the names of those who recommended the successor, names of the parties by whom the Government was represented at such investigation, with a detailed statement of all the accounts paid or to be paid by any department in connection with the aforesaid dismissal and investigation, the names of the parties who received any money or filed their accounts in connection with said investigation, and the amount awarded to or claimed by each of them. Presented March 31, 1914.—*Mr. Bourassa*.....Not printed.
- 44 (6u).** Return to an Order of the House of the 16th March, 1914, for a copy of all telegrams, letters and correspondence in connection with the dismissal of Charles S. Melanson, postmaster of Corberrie, Digby County, N.S. Presented April 1, 1914.—*Mr. Law*.....Not printed.
- 44 (6v).** Return to an Order of the House of the 11th February, 1914, for a return showing reasons for the dismissal of Gordon McDonald, homestead inspector in the Grouard Land Agency, the date of his appointment and of dismissal, and salary at time of dismissal; also the names of inspector appointed in his place, with date of appointment and salary. Presented April 2, 1914.—*Mr. Oliver*.....Not printed.
- 44 (6w).** Return to an Address to His Royal Highness the Governor General of the 17th February, 1913, for a copy of all letters, papers and documents relating to the appointment of W. F. Slack as clerk of works in the Department of Public Works at Ottawa; a copy of the charges against the said W. F. Slack, which were investigated by Honourable F. D. Monk, and of all the letters suspending and re-instating the said W. F. Slack; of the employees memorial, dated May 11, 1912, and addressed to Honourable F. D. Monk; praying for the retention in office of the said W. F. Slack; a copy of the charges investigated by Commissioner R. V. Sinclair, of the evidence taken and the reports made by the said commissioner; and also of all correspondence, requests, recommendations and orders in council relating to the dismissal of the said W. F. Slack. Presented April 2, 1914.—*Mr. Murphy*.....Not printed.
- 44 (6x).** Return to an Order of the House of the 28th April, 1913, for a copy of all correspondence, memoranda, reports, telegrams, and of all documents whatsoever, in connection with and having relation to the dismissal of William Brunelle, lighthouse keeper at Pointe à Citrouille, County of Champlain, Province of Quebec. Presented April 2, 1914.—*Mr. Bureau*.....Not printed.
- 44 (6y).** Return to an Order of the House of the 23rd March, 1914, for a copy of all documents, correspondence, petitions, recommendations, &c., in connection with the dismissal of Arthur Levesque, light keeper at Grosse Isle, Kamouraska, and with the appointment of his successor? Presented April 7, 1914.—*Mr. Lapointe (Kamouraska)*...Not printed.
- 44 (6z).** Return to an Order of the House of the 28th April, 1913, for a copy of all correspondence, memoranda, reports, telegrams and all other documents whatsoever having reference to the dismissal of L. Philippe Carignan, lighthouse keeper at Champlain, County of Champlain. Presented April 2, 1914.—*Mr. Bureau*.....Not printed.

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- 44 (7a). Return to an Order of the House of the 23rd March, 1914, for a copy of all documents, petitions, correspondence, recommendations, investigations, &c., in connection with the dismissal of Dominique Levesque, lightkeeper, at Rivière-Ouelle wharf, County of Kamouraska, and with the appointment of his successor. Presented April 7, 1914.—*Mr. Lapointe (Kamouraska)*..... *Not printed.*
- 44 (7b). Return to an Order of the House of the 2nd February, 1914, for a return showing in detail the number of dismissals from public offices by the present Government in the electoral district of Sherbrooke from the 1st of October, 1911, not already brought down to the present date; together with the names of the dismissed officers, the reasons for their dismissal, the complaints against such officers, names of the complainants in each case, and the names of their successors in office. Presented April 16, 1914.—*Mr. Ross*..... *Not printed.*
- 44 (7c). Supplementary Return to an Order of the House of the 10th December, 1912, for a return showing all public offices removed by the present Government in the District of Portneuf, together with the names and duties of each person, the reasons for their dismissal, the nature of the complaints brought against them, also a copy of all correspondence relating thereto and reports of inquiries in cases where such were held. Presented April 16, 1914.—*Mr. DeLoe*..... *Not printed.*
- 44 (7d). Return to an Order of the House of the 4th February, 1914, for a copy of all correspondence relative to the dismissal of Alex. W. Enleyson, keeper of Light on St. Esprit Island, Richmond County, N.S., and to his resignation and the appointment of a successor. Presented April 17, 1914.—*Mr. Kutt*..... *Not printed.*
- 44 (7e). Return to an Order of the House of the 4th March, 1914, for a copy of all papers, evidence, &c., in connection with the investigation held by the District of Montserrat and Fisheries against the Lightkeeper of the same, County of Gaspe, in 1911. Presented April 17, 1914.—*Mr. Lebour*..... *Not printed.*
- 44 (7f). Return to an Order of the House of the 16th February, 1914, for a copy of all telegrams, correspondence and documents of all kinds, in any way connected with the dismissal or suspension from duty of Dan O'Connell, an officer in the Police Station at Hesperon Harbour, Inverness County, Nova Scotia. Presented April 21, 1914.—*Mr. O'Neil (Inverness)*..... *Not printed.*
- 44 (7g). Return to Order of the House of the 16th February, 1914, for a copy of all documents bearing on the appointment and dismissal of Ben. V. White, keeper of Light at Point Dupe, Quebec, and of the appointment of James DuBois as his successor, as well as of those bearing on the contemplated removal of that Light to Miramichi. Presented April 21, 1914.—*Mr. Maréchal (Bonaventure)*..... *Not printed.*
- 44 (7h). Return to an Order of the House of the 12th February, 1914, for a return showing the names of the postmasters who have been dismissed in the County of Lévis since the month of September, 1911; the number of the dismissed postmasters, since the month of September, 1911, who have been appointed in the place of postmasters dismissed under the late administration; and the names of the postmasters who were dismissed under the late administration. Presented April 22, 1914.—*Mr. Boissau*..... *Not printed.*
- 44 (7i). Return to an Order of the House of the 2nd March, 1914, for a copy of all correspondence, papers, documents, evidence, reports, telegrams &c., relating to the dismissal of John A. L. McLeod, late Lightkeeper at F.S. Island, Prince Edward Island. Presented April 28, 1914.—*Mr. Hughes (Kings, P.E.I.)*..... *Not printed.*
- 44 (7j). Return to an Order of the House of the 6th April, 1914, for a copy of all documents bearing on the dismissal of Thomas LeBlanc, as postmaster of Charlot, Bonaventure County, and the appointment of his successor. Presented April 29, 1914.—*Mr. Maréchal (Bonaventure)*..... *Not printed.*
- 44 (7k). Return to an Order of the House of the 21st April, 1913, for a copy of all letters, telegrams, petitions, complaints, evidence, reports and other documents relating to the dismissal of William E. Ehler, Lightkeeper, Quabouquet, N.S., also a detailed statement of the expenses connected with the investigation, distinguishing the allowance paid the commissioner from travelling expenses and witness fees; and of all papers connected with the appointment of Mr. Ehler's successor. Presented May 5, 1914.—*Mr. Simard*..... *Not printed.*
- 44 (7l). Return to an Order of the House of the 2nd March, 1914, for a copy of all letters, petitions, telegrams, evidence, reports, papers and documents in the possession of the Post Office Department, or any other Department, relating to the dismissal of Samuel Dickson, postmaster at Seaforth, Ontario, and if there was an investigation, the names of the investigator and witnesses, with a copy of the evidence and of all letters, papers, petitions, recommendations, or other documents connected with the appointment of Mr. Dickson's successor. Presented May 8, 1914.—*Mr. Ross*..... *Not printed.*

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- 44 (7m).** Return to an Order of the House of the 6th April, 1914, for a copy of all petitions, letters, complaints and other documents relating to the dismissal of Charles McPherson, postmaster at North Riverside, County of Guysborough, N.S., and of all recommendations and correspondence relating to the appointment of his successor; also a copy of all evidence and of the report of the investigation, if any, and a statement of the expenses of said investigation. Presented May 8, 1914.—*Mr. Sinclair*.....*Not printed.*
- 44 (7n).** Return to an Order of the House of the 9th March, 1914, for a copy of all letters, telegrams, petitions, notes of evidence, charges, if any, and other papers and documents relating to the dismissal of Christian L. Ehler, postmaster at Queensport, N.S., and of all correspondence, petitions and other papers and documents relating to the appointment of his successor, with a detailed statement of the expenses of the said investigation, if any. Presented May 11, 1914.—*Mr. Sinclair*.....*Not printed.*
- 44 (7o).** Return to an Order of the House of the 12th March, 1914, for a return showing:—
 1. Whether Christian L. Ehler, postmaster at Queensport, N.S., has been dismissed; and if so, when?
 2. Whether the charges against this postmaster were in writing, and by whom the said charges were signed?
 3. What the charges were?
 4. Who conducted the investigation, if any?
 5. Whether the investigation took place after the dismissal or before?
 6. Whether the commissioner recommended the dismissal of this postmaster?
 7. The names of the witnesses examined?
 8. The expense of the investigation in detail?
 9. If the Postmaster General is of the opinion that the evidence taken at the investigation justified this dismissal? Presented May 11, 1914.—*Mr. Sinclair*.....
Not printed.
- 44 (7p).** Return to an Order of the House of the 19th February, 1913, for a copy of all letters, petitions, telegrams, complaints, findings, reports and other papers in the possession of the Post Office Department, or any Department of the Government, relating to the dismissal or discharge of James White, postmaster at Sidney, British Columbia, and if there was an investigation, the names of the witnesses examined and a detailed statement of the expenses of such investigation; also of all letters, telegrams, recommendations and other papers connected with the appointment of his successor. Presented May 11, 1914.—*Mr. Sinclair*.....*Not printed.*
- 44 (7q).** Return to an Order of the House of the 9th March, 1914, for a copy of the petition, recommendations and other correspondence relating to the change in the location of the post office at Mount St. Patrick in South Renfrew, and the dismissal of the postmaster. Presented May 11, 1914.—*Mr. Graham*.....*Not printed.*
- 44 (7r).** Return to an Order of the House of the 16th February, 1914, for a copy of all documents bearing on the dismissal of the officer in charge of the Port Daniel West, Quebec, lobster hatchery, Edward Dea, and on the appointment of his successor. Presented May 15, 1914.—*Mr. Marcell (Bonaventure)*.....*Not printed.*
- 44 (7s).** Return to an Order of the House of the 20th April, 1914, for a copy of all correspondence in connection with the dismissal of A. C. Cameron of Fairlight, Saskatchewan, from his position as mail contractor. Presented May 16, 1914.—*Mr. Turriff*.....
Not printed.
- 44 (7t).** Return to an Order of the House of the 16th March, 1914, for a copy of all charges, correspondence, letters, petitions, telegrams and other documents relating to the dismissal of Mr. Geo. F. Payne, postmaster at Granby, Shefford County, Quebec, and of the appointment of his successor, Mr. J. L. Dozois, N.P., and also of the transfer of the said office from the one to the other, together with a copy of the evidence taken at all investigations held in connection with the said dismissal, appointment and transfer, and of the reports of said investigations. Presented May 16, 1914.—*Mr. Boivin*.....
Not printed.
- 44 (7u).** Return to an Order of the House of the 30th March, 1914, for a return showing the names of the postmasters who have been dismissed from the office since 1900, in the County of Portneuf, the number of investigations and the names of those whose cases were investigated. Presented May 16, 1914.—*Mr. Delisle*.....*Not printed.*
- 44 (7v).** Return to an Order of the House of the 23rd March, 1914, for a copy of all letters, telegrams, correspondence, complaints and protests on file, referring to the dismissal of the late postmaster at Hayre Boucher, N.S., and to the appointment of a successor. Presented May 16, 1914.—*Mr. Chisholm (Antigonish)*.....*Not printed.*
- 44 (7w).** Return to an Order of the House of the 6th April, 1914, for a copy of all documents, investigations, reports and letters, concerning the dismissal of William Campbell, light keeper on the wharf at New Richmond, Quebec, and the appointment of James Robertson as his successor; together with a copy of recommendations and the letters respecting the appointment, if any. Presented May 29, 1914.—*Mr. Marcell (Bonaventure)*.....
Not printed.

CONTENTS OF VOLUME 28—Continued.

- 44 (7x).** Supplementary Return to an Order of the House of the 2nd February, 1914, for a return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the first day of February, 1912, to date, in the County of Westmorland, New Brunswick, in connection with any of the Departments of the Public Service, except the Post Office Department, together with the names of the dismissed officials or employees, the reasons for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the Government, or of the Government Railway Managing Board, or of the officials of the Intercolonial and the Prince Edward Island Railways; also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment; to other with a detailed statement of all amounts and expenses paid by any department in connection with the said dismissals and investigations or removals from office. Presented June 2, 1914. *Mr. Emeryson*..... *Not printed.*
- 44 (7y).** Return to an Order of the House of the 14th April, 1913, for a return showing the detail and number of dismissals from public offices in the Department of Marine and Fisheries from December 5, 1912, to this date, in the County of Bonaventure, the names of the dismissed occupants, the reasons for their dismissal, the complaints against such officials, and a copy of all correspondence with respect to the same, and of all reports of investigations, where such were held, as well as a list of the new appointments made by the department, with names, residence, salaries and duties, and a copy of the recommendations of such appointments. Presented June 2, 1914. *Mr. Macdonald*..... *Not printed.*
- 44 (7z).** Return to an Order of the House of the 4th May, 1914, for a copy of all resolutions and other documents bearing upon the dismissal of J. F. Johnson, a member of the Department of Public Works, and the appointment of his successor. Presented June 2, 1914. *Mr. Tobin*..... *Not printed.*
- 44 (8a).** Return to an Order of the House of the 17th May, 1914, for a copy of all correspondence exchanged by and with the Department of Indian Affairs and the Hon. J. G. Morrison and A. M. Caldwell, New Carlisle, Quebec, and David G. Gagnon, Cap de la Pointe N.B., or Restigouche, Quebec, in connection with the dismissal of Arthur B. Caldwell, Assistant Inspector of Weights and Measures, District of Quebec. Presented June 8, 1914. *Mr. March*..... *Not printed.*
- 44 (8b).** Supplementary Return to an Order of the House of the 4th May, 1914, for a return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the 11th day of October, 1911, to this date, in the County of Amqui, Nova Scotia, in connection with any of the departments of the public service, but not including cases where the same have already been dealt with together with the names of the dismissed officials or employees, the reasons for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the Government; also the names of all parties appointed to fill vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid by any department in connection with the said dismissals and investigations or removals from office. Presented June 8, 1914. — *Mr. Chisholm (Antigonish)*..... *Not printed.*
- 44 (8c).** Partial Return to an Order of the House of the 18th February, 1914, for a copy of all charges, complaints, memorials, correspondence and telegrams, not already printed, relating to officials in any department of the Government since October 19, 1911, the number of officials dismissed, reports of investigations held in respect of such charges, items of expenditure and cost of each investigation, the names of persons appointed to office in the place of dismissed officials, and of all recommendations received in behalf of persons so appointed in the Province of Prince Edward Island. Presented June 12, 1914. *Mr. Hughes (Amos, P.E.I.)*..... *Not printed.*
- 44 (8d).** Return to an Order of the House of the 1st June, 1914, for a copy of all charges and complaints, letters, telegrams and correspondence respecting the dismissal of Captain Jeremiah Hueste, mate and craneman, employed on the *North Star*, Captain Dan Gills during the season of 1912, and of all representations made and correspondence had with the Department of Public Works, or any other official respecting his re-instatement. Presented June 12, 1914. *Mr. Chisholm (Antigonish)*..... *Not printed.*
- 45.** Return to an Order of the House of the 12th May, 1913, for a copy of all communications made by the Canadian Forestry Association to the Government between May 31, 1912, and March 31, 1913, with the replies made thereto. Presented January 19, 1914. *Mr. Olyer*..... *Not printed.*

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46. Return to an Order of the House of the 16th January, 1913, for a return showing the number of bushels of grain and sacks or barrels of flour which were shipped from Fort William and Port Arthur by vessel during 1912, and the different kinds of grain respectively; to what points were the same shipped in Canada and the United States giving quantities and kinds respectively, and at what points in Canada was grain or flour received by vessel from the United States, giving the quantities and kinds respectively. Presented January 19, 1914.—*Mr. Bennett (Simcoe)*.....*Not printed.*
47. Return to an Order of the House of the 7th May, 1913, for a copy of the report concerning Indian Titles which was presented to the Superintendent General of Indian Affairs under date of August 20, 1909. Presented January 19, 1914.—*Mr. Thompson (Yukon)*.
Not printed.
48. Copy of Order in Council No. P. C. 3002, dated 29th November, 1913, in respect to Pensions or Gratuities to officers of the Royal Canadian Navy, in accordance with section 47 of the Naval Service Act, 1910. Presented by Hon. Mr. Hazen, January 19, 1913.
Not printed.
49. Return to an Order of the House of the 26th May, 1913, for a copy of all telegrams, letters, &c., from the Department of Customs sent to or received from John C. Bourinot, Port Hawkesbury, customs officer, during the years 1895-6-7. Presented January 19, 1914.—*Mr. Chisholm (Inverness)*.....*Not printed.*
- 49a. Return to an Order of the House of the 26th May, 1913, for a return showing a complete list of the seizures made by John C. Bourinot, during his incumbency as acting preventive officer from 1884 to 1886; also during his term of office as Collector of Customs for the Port of Hawkesbury from 1886 to 1898, also during his term of office of special officer of customs from 1898 to 1912; with the date of each seizure, number of each seizure, name of party from whom seizure was made, in case of vessels, the names of the vessels; also the names of the owners of such vessels, the amount of each seizure, name of port where seizure was made, and the amount of the seizures made by him from 1884 to May 1, 1912, for the whole Province of Nova Scotia. Presented January 19, 1914.—*Mr. Chisholm (Inverness)*.....*Not printed.*
50. Statement of Governor General's Warrants issued since the last session of parliament on account of 1913-14. Presented by Hon. Mr. White, January 19, 1914.....*Not printed.*
51. Statement in pursuance of Section 17 of the Civil Service Insurance Act, for the year ending March 31, 1913. Presented by Hon. Mr. White, January 19, 1914.....*Not printed.*
52. Statement of Superannuation and Retiring Allowances in the Civil Service during the year ending December 31, 1913, showing name, rank, salary, service, allowance and cause of retirement of each person superannuated or retired, also whether vacancy is filled by promotion or by appointment, and salary of any new appointee. Presented by Hon. Mr. White, January 19, 1914.....*Not printed.*
53. Statement of Receipts and Expenditures of the Ottawa Improvement Commission to March 31, 1913. Presented by Hon. Mr. White, January 19, 1914.....*Not printed.*
54. Statement of expenditure on account of "Miscellaneous Unforeseen Expenses," from the 1st April, 1913, to the 14th January, 1914, in accordance with the Appropriation Act of 1912. Presented by Hon. Mr. White, January 19, 1914.....*Not printed.*
55. Statement of the affairs of the Royal Society of Canada, for the year ended April 30, 1913. Presented by Hon. Mr. White, January 19, 1914.....*Not printed.*
56. Statement of Temporary Loans since March 31, 1913. Presented by Hon. Mr. White, January 19, 1914.....*Not printed.*
57. Statement of Treasury Bills discounted since March 31, 1913. Presented by Hon. Mr. White, January 19, 1914.....*Not printed.*
58. Certified List of Shareholders of the Montreal City and District Savings Bank, and La Caisse D'Economie de Notre Dame de Quebec, as on the 31st December, 1913. Presented by Hon. Mr. White, January 19, 1914.....*Not printed.*
59. Copies of General Orders promulgated to the militia for the period between November 18, 1912, and November 25, 1913. Presented by Hon. Mr. Hughes, January 19, 1914.
Not printed.
60. Return to an Order of the House of the 30th April, 1913, for a copy of the report made by the Inquiring Commissioner, Mr. J. H. Bergeron, in the inquiry lately held by him, at Quebec, re Doctor J. D. Page, of Quebec and of the reports made by the advocate of the complainant and defendant in the same cause at the request of the Inquiring Commissioner. Presented January 20, 1914.—*Mr. Boulay*.....*Not printed.*
61. Return to an Order of the House of the 26th March, 1913, for a copy of all petitions, reports, recommendations, correspondence, letters, telegrams and other communications concerning the east half of section 26, in township 6, range 8, west of the fourth meridian. Presented January 20, 1914.—*Mr. Buchanan*.....*Not printed.*

CONTENTS OF VOLUME 28—Continued.

- 61*a*. Return to an Order of the House of the 24th February, 1913, for a copy of all memoranda, letters, papers, or other documents in the possession of the Department of the Interior relating to the N.W. ¼ of 8-19-25-4, and the S.W. ¼ of 7-19-28-4. Presented January 20, 1914.—*Mr. Oliver*.....*Not printed.*
62. Return to an Order of the House of the 22nd January, 1913, for a copy of all correspondence, &c., exchanged between the Minister of Labour and the Canal in Pacific 110 way strikers on their application for a Board of Conciliation and Investigation. Presented January 20, 1914.—*Mr. Levesque*.....*Not printed.*
63. By-laws of the Moravian Indians of the Thoms and Regulations of the Abenakis Indians of St. Francis, approved by His Excellency the Administrator in Council on the 27th March, 1913, and the 21st April, 1913, respectively. Presented by Hon. Mr. Cochrane, January 20, 1914.....*Not printed.*
64. General Rules and Orders of the Exchequer Court of Canada made, respectively, on the 20th September, 1913, and the 13th December, 1913. Presented by Hon. Mr. Cochrane, January 20, 1914.....*Not printed.*
65. Regulations under "The Destructive Insect and Pest Act" (S. 817).*Not printed.*
66. Remission of Duties and refund under Section 92, Act No. 1 (S. 817).*Not printed.*
67. Return to an Order of the House of the 19th May, 1913, for a return showing a comparative and detailed statement of costs of production, maintenance, operation, and management, and receipts of the Dog Fish Harbour Wharf at Clark's Harbour, N.S., for the years 1910, 1911 and 1912. Presented January 22, 1914.—*Mr. Macdonald*.....*Not printed.*
68. Return to an Order of the House of the 17th May, 1913, for a copy of all papers, books, documents, contracts, settlements, reports, correspondence, and all other papers and documents in any way relating to the claims of the Fisheries Navigation Company against the Government, arising out of a sales arrangement for the disposal of certain furs between Fort Frances and Keewau for the season of 1911, or a contract of sale, or a settlement of the said claim, or of the said subsidy. Presented January 22, 1914.—*Mr. Macdonald (York)*.....*Not printed.*
69. Return to an Order of the House of the 21st March, 1913, for a copy of all correspondence, letters, telegrams, reports, recommendations, settlements, and all other documents relating to the appointment of Mr. J. S. Jackson as a stevedore for the Government shipyard at St. Joseph de Sorel. Presented January 22, 1914.—*Mr. Cadogan*.....*Not printed.*
70. Return to an Order of the House of the 20th January, 1913, for a copy of all letters, telegrams, telegrams, complaints, reports, books of indemnity, and all other papers and documents in the possession of the Post Office Department, or any department of the Government, relating to the letting of a contract for carrying the mails between Sherbrooke, County of Gaspereau, N.S., and Moser's River, County of Halifax, N.S., during the years 1911 and 1912. Presented January 22, 1914.—*Mr. Sinclair*.....*Not printed.*
- 70*a*. Return to an Order of the House of the 20th January, 1913, for a copy of all letters, and other documents relating to the mail contract between Scotsburn Station and West Branch, River John, County of Pictou, in the year 1912. Presented January 22, 1914.—*Mr. Macdonald*.....*Not printed.*
- 70*b*. Return to an Order of the House of the 21st April, 1913, for a copy of all correspondence, reports and other documents relating to the mail contract between Scotsburn and West Branch, River John, County of Pictou, since October 1, 1911. Presented January 22, 1914.—*Mr. Macdonald*.....*Not printed.*
- 70*c*. Return to an Order of the House of the 10th December, 1912, for a return showing (1) each mail contract awarded since the 15th of October, 1911; (2) the name of the tenderer in each case; (3) the figures of each tender; and (4) the name of each party to whom such contract has been awarded. Presented January 22, 1914.—*Mr. Levesque*.....*Not printed.*
- 70*d*. Return to an Order of the House of the 15th January, 1913, for a return showing a list of the mail carriers whose contracts have been cancelled or renewed by the present Government in the County of Two Mountains, the names of such persons, the reasons for cancelling or renewing the said contracts, the former rates and the present price of the said contracts; also a copy of all correspondence relating to the said mail carriers. Presented January 22, 1914.—*Mr. Ethier*.....*Not printed.*
- 70*e*. Return to an Order of the House of the 9th December, 1912, for a return showing all the mail contracts made between the Post Office Department of Canada and any party or parties, and cancelled before the maturity thereof from October 15, 1911, to the 15th of November, 1912, designating such cancelled mail contracts by giving the name of the contractor, the amount of the contract, the period of the unexpired service, the name of the district or districts, and the county and province wherein the service was performed, together with the reasons for such cancellation. Presented February 12, 1914.—*Mr. Macdonald (Halifax)*.....*Not printed.*

CONTENTS OF VOLUME 28—Continued.

- 70f.** Return to an Order of the House of the 29th January, 1913, for a copy of all papers, and documents of every nature and kind relating to a certain mail contract between Back Shore and Pietou, County of Pietou, since the death of the late contractor D. G. McKay, in 1912. Presented February 20, 1914.—*Mr. Macdonald*.....*Not printed.*
- 70g.** Return to an Order of the House of the 14th April, 1913, for a copy of the contract between the Post Office Department and Napolcon Le Blanc, for the carrying of the mails between Carleton Centre and Carleton, Quebec, Railway Station, and of all correspondence, petitions, and other letters bearing on the cancelling of that contract and the awarding of a new one, with a copy of said new contract. Presented February 23, 1914.—*Mr. Marcell (Bonaventure)*.....*Not printed.*
- 70h.** Return to an Order of the House of the 2nd April, 1913, for a copy of all papers relating to the mail contract from Noël to Walton, County of Hants, during the present year. Presented February 26, 1914.—*Mr. Macdonald*.....*Not printed.*
- 70i.** Return to an Order of the House of the 12th May, 1913, for a copy of all tenders for, and correspondence relating to, the awarding of the contract for the carrying of His Majesty's mail between Warkworth and Colborne, County of Northumberland. Presented February 26, 1914.—*Mr. Graham*.....*Not printed.*
- 70j.** Return to an Order of the House of the 12th May, 1913, for a copy of all correspondence, papers, &c., in connection with the carrying of the mail between St. François Xavier de Brompton and Windsor Mills, Quebec. Presented February 26, 1914.—*Mr. Tobin*.....*Not printed.*
- 70k.** Return to an Order of the House of the 17th February, 1913, for a return showing the number of mail contracts cancelled in the Province of Nova Scotia since October 10, 1911, the names of the contractors, the prices paid to them, the reason for the cancellation in each case, and a copy of any investigations and reports had into the causes of such cancellations, the names of the new contractors and the prices paid to them in each case. Presented March 2, 1914.—*Mr. Sinclair*.....*Not printed.*
- 70l.** Return to an Order of the House of the 4th December, 1912, for a return showing the number of mail contracts cancelled in the County of Pietou since the 1st of October, 1911; the names of the contractors, the prices paid to them, the reason for the cancellation in each case; and a copy of any investigations and reports had into the causes of such cancellations, the names of the new contractors and the prices paid to them in each case. Presented March 2, 1914.—*Mr. Macdonald*.....*Not printed.*
- 70m.** Return to an Order of the House of the 31st March, 1913, for a copy of all tenders received and of all letters, telegrams, papers and other documents relating to the mail contract between Tatamagouche and Brulé Shore, Colchester County, during the present year. Presented March 2, 1914.—*Mr. Macdonald*.....*Not printed.*
- 70n.** Return to an Order of the House of the 9th December, 1912, for a copy of all letters, telegrams and correspondence referring to the tenders received and the contracts awarded, if any, for the carrying of the mails between Antigonish and Livingstone Cove. Presented March 5, 1914.—*Mr. Chisholm (Antigonish)*.....*Not printed.*
- 70o.** Return to an Order of the House of the 19th May, 1913, for a copy of all telegrams and correspondence on file relating to the mail service between Antigonish and Livingstone Cove, and of the tenders received, and the contract entered into for this service. Presented March 12, 1914.—*Mr. Chisholm (Antigonish)*.....*Not printed.*
- 70p.** Return to an Address to His Excellency the Administrator of the 28th April, 1913, for a copy of all documents, tenders, contracts, correspondence, orders in council, &c., in reference to the mail service between Bridgetown, Port Lorne and Hampton, Parker's Cove, Annapolis County, N.S., for which service tenders were recently solicited. Presented March 12, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*
- 70q.** Return to an Order of the House of the 9th February, 1914, for a copy of the advertisement for tenders, and of the tenders received, and of the contract awarded last year, for the carrying of the mails between Antigonish and Livingstone Cove, and of all letters, telegrams, correspondence and documents in any way relating thereto. Presented March 12, 1914.—*Mr. Chisholm (Antigonish)*.....*Not printed.*
- 70r.** Return to an Order of the House of the 2nd February, 1914, for a return showing the names of all persons tendering, the amount of tender, and to whom awarded in 1913, for the carriage of mails covering the following mail routes in Shelburne County, Nova Scotia; Shelburne to Jordan Bay and Jordan Ferry and return; Clyde River to Upper Clyde and return; Lower Woods Harbour to Charlesville and return; Port Le Herbert to Stable River. Presented March 20, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*
- 70s.** Return to an Order of the House of the 9th February, 1914, for a copy of all tenders, contracts, documents, papers and correspondence in connection with tenders and contracts for the carriage of mails between Bridgetown and Port Lorne, Hampton and Parker's Cove, in 1912. Presented March 20, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*

CONTENTS OF VOLUME 28—Continued.

- 70f.** Return to an Order of the House of the 9th February, 1914, for a copy of the contract entered into last year for the carrying of the mails between North Lochaber and Colledgeville, and of all letters, telegrams, and correspondence referring to said service and the awarding of said contract. Presented March 25, 1914.—*Mr. Chisholm (Antigonish)*.
Not printed.
- 70g.** Return to an Order of the House of the 5th February, 1914, for a copy of the advertisement for tenders, and of the tenders received last year for the carrying of the mails between Merigomish and Malignant Cove, and of all letters, telegrams and correspondence and documents in any way relating thereto. Presented March 25, 1914.—*Mr. Chisholm (Antigonish)*.
Not printed.
- 70h.** Return to an Order of the House of the 19th March, 1914, for a return showing how many mail contracts have been cancelled in the County of Inverness from September, 1911, up to date.
2. The route of each contract, the name of the contractor, and the amount of each contract.
3. The reasons for cancelling the several contracts. Presented April 22, 1914.—*Mr. Chisholm (Inverness)*.
Not printed.
- 70i.** Return to an Order of the House of the 30th March, 1914, for a copy of all letters, telegrams, correspondence, guarantee bonds, and other documents and security relating to the renewal of the contract with George A. Stewart for carrying mail between North Lochaber and West Lochaber, in or about the month of May, 1914, of the subsequent cancellation of said renewal contract, and of the contract made with Hugh D. Cameron for said service. Presented April 22, 1914.—*Mr. Chisholm (Antigonish)*.
Not printed.
- 70j.** Return to an Order of the House of the 14th March, 1914, for a copy of all correspondence, telegrams and papers generally concerning the proposed new way mail subsidy recently agreed upon by the Postmaster General and the various railway companies. Presented April 30, 1914.—*Mr. Lemieux*.
Not printed.
- 70k.** Return to an Order of the House of the 19th May, 1914, for a return showing the names of the 82 tenders for the carrying of the mails between Bass St. Paul and Murray Bay, County of Charlevoix, and the amount of the tender in each case. Presented May 8, 1914.—*Mr. Lemieux*.
Not printed.
- 70l.** Return to an Order of the House of the 29th April, 1914, for a copy of all letters, papers, contracts, memoranda and other documents relating to the new contract between Portou Post office and railway station, between the Post Office Department and Peter Foley. Presented May 8, 1914.—*Mr. Mulholland*.
Not printed.
- 70 (2a).** Return to an Order of the House of the 23rd March, 1914, for a copy of all documents, letters, recommendations, &c., in connection with a contract awarded to Christophe Lavesque, of St. Eléuthère, for the conveyance of the mail between St. Eléuthère and Sully. Presented May 11, 1914.—*Mr. Lapointe (Kamouraska)*.
Not printed.
- 70 (2b).** Return to an Order of the House of the 11th May, 1914, for a return showing:—
1. Whether Mr. David Armstrong, mail carrier of the City of Westbrooke, has been dismissed. If so, for what cause?
2. Whether an investigation was held at which he was given an opportunity of meeting his accusers and being heard in his own defence?
3. How many years Mr. Armstrong has been in the service?
4. What remuneration he was receiving for his services?
5. Whether a successor has been appointed. If so, what his name is, who recommended him and what remuneration he received. Presented May 28, 1914.—*Mr. McCrea*.
Not printed.
- 70 (2c).** Return to an Order of the House of the 18th May, 1914, for a copy of all correspondence, papers, tenders and other documents in any way relating to the transfer from J. A. Campbell to Alexander Macdonnell of the contract for carrying the mail from Port Hood to South West Port Hood. Presented June 2, 1914.—*Mr. Chisholm (Antigonish)*.
Not printed.
- 70 (2d).** Return to an Order of the House of the 17th February, 1913, for a return in duplicate showing the number of mail contracts cancelled in the Counties of Westmorland, Aberg, Kings and Kent, Province of New Brunswick, since October 9, 1911, the names of the contractors, the prices paid to them, the reason for the cancellation in each case, and a copy of any investigations and reports had into the causes of such cancellations, the names of the new contractors, and the prices paid to them in each case; and in cases where tenders were asked and received preliminary to such new contracts, a statement in duplicate showing names of the tenders, with the offers made by each, the name of the successful tenderer, and the amount or price for which contract was executed in each case; together with a copy in duplicate of all letters, correspondence and other communications relating to each such cancellation and the giving of any new contract. Presented June 2, 1914.—*Mr. Emmerson*.
Not printed.

CONTENTS OF VOLUME 28—Continued.

- 71.** Return to an Order of the House of the 2nd June, 1913, for a copy of all correspondence and telegrams relating to complaints, political or otherwise, made against Mrs. Marcelline Roy, postmistress at Elm Tree, Gloucester County, N.B., which led the department to issue an order for an investigation, and the said postmistress to tender her resignation, and to the appointment of her successor. Presented January 22, 1914.—*Mr. Turgeon* *Not printed.*
- 72.** Return to an Order of the House, of the 26th March, 1913, for a copy of all petitions recommendations, correspondence, letters, telegrams and other communications concerning the change in location of the post office known as Masinasin, Province of Alberta. Presented January 22, 1914.—*Mr. Buchanan*..... *Not printed.*
- 73.** Return to an Order of the House of the 31st March, 1913, for a copy of all letters, telegrams and petitions concerning the closing of the Moulin Basinet post office, Parish of St. Jean de Matha, County of Joliette. Presented January 22, 1914.—*Mr. Lemieux*..... *Not printed.*
- 74.** Return to an Order of the House of the 7th April, 1913, for the production of one sample of a patented lock and key sold by the Ontario Equipment Company of Ottawa to the Post Office Department. Presented January 22, 1914.—*Mr. Verville*..... *Not printed.*
- 74a.** Return to an Order of the House of the 2nd April, 1913, for a copy of all correspondence between the Post Office Department and Alleyn Taschereau, advocate of Quebec, concerning the purchase of new locks for the mail bags. Presented January 22, 1914.—*Mr. Carvell* *Not printed.*
- 74b.** Return to an Order of the House of the 4th March, 1914, for a copy of the application, correspondence and papers generally concerning mail lock patent No. 151043. Presented May 11, 1914.—*Mr. Lemieux*..... *Not printed.*
- 75.** Return to an Order of the House of the 10th February, 1913, for a copy of all letters, telegrams and other correspondence exchanged between the Post Office Department and Messrs. A. de Macdonald, Elzear Monpetit and all others, relating to the change of the postmasters at Ile Perrot North and Ile Perrot South, Vaudreuil Station, Roquebrune, St. Lazare Village, Mount Oscar and Pte. Fortune, and of the report of the inquiring commissioner in each of the cases in which an inquiry was held; of the correspondence exchanged between the parties above named relative to the new post office building at Rigaud and of correspondence exchanged between the parties above mentioned, relating to the post offices lately named Choisy and Demartigny. Presented January 22, 1914.—*Mr. Boyer* *Not printed.*
- 75a.** Return to an Order of the House of the 9th April, 1913, for a copy of all documents bearing on changes asked for in the postmastership of Port Daniel Centre, Avignon, New Richmond and Black Cape, Bonaventure County; and of all documents bearing on the closing of Black Cape East post office, Bonaventure County. Presented January 22, 1914.—*Mr. Marcell* *Not printed.*
- 75b.** Return to an Order of the House of the 2nd February, 1914, for a copy of all letters, telegrams, papers, and other documents connected with the removal of the post office from the store of Alexander Robertson at Red Point, P.E.I., to the store of J. E. Robertson of the same place. Presented February 20, 1914.—*Mr. Hughes (P.E.I.)*..... *Not printed.*
- 75c.** Return to an Order of the House of the 16th February, 1914, for a copy of any complaints made against John A. Campbell, postmaster of New Richmond, Quebec, and of all correspondence bearing on any change called for in that office. Presented March 17, 1914.—*Mr. Marcell (Bonaventure)*..... *Not printed.*
- 76.** Return to an Order of the House of the 7th May, 1913, for a copy of all correspondence and telegrams exchanged between the Post Office Department, the Government or any member thereof, the post office inspector at St. John, N.B., or any official of the Post Office Department at St. John, N.B., on the one hand, and the postmaster at Kouchibouguac, Kent County, N.B., Mr. Cliff Atkinson, or any other person, corporation or firms, relating to the sale or non-purchase of postage stamps, or the mailing of letters, delivery of mail, &c., at the said post office; together with a copy of all correspondence, reports and other papers and documents in any wise relating thereto, on file in the Post Office Department at Ottawa, or in the office of the post office inspector at St. John, N.B.; also a copy of all regulations or orders of the Post Office Department relating to the sale of postage stamps, or the mailing of letters, or the delivery of mails, or generally as to the use of post office by residents and non-residents. Presented January 22, 1914.—*Mr. Emmerson* *Not printed.*
- 77.** Return to an Order of the House of the 2nd June, 1913, for a return showing the names, dates of appointment and salary respectively, of the employees of the Moosejaw post office. Presented January 22, 1914.—*Mr. Knowles*..... *Not printed.*
- 77a.** Return to an Order of the House of the 24th February, 1913, for a copy of all letters, telegrams, recommendations, petitions and documents, relating to the appointment of Mr. Pierre Cournoyer as postmaster at St. Pierre de Sorel, County of Richelieu. Presented January 22, 1914.—*Mr. Cardin*..... *Not printed.*

CONTENTS OF VOLUME 28—Continued.

- 77b.** Return to an Order of the House of the 14th April, 1913, for a return showing what public officers have been appointed in the City of Quebec, in the Departments of Inland Revenue, Post Office, Railways and the Transcontinental, Customs, Immigration, Marine and Fisheries, Public Works and Militia, since the 1st October, 1911, up to this date; together with the names and duties of these persons, the dates of their appointment, the salary paid in each case and the increases granted since; also the date of these increases, and which ones of these officers have passed the Civil Service examinations required for the positions which they occupy, and on what dates they passed such examinations; and also a copy of all correspondence, reports, recommendations and reports relating to the appointment of these officers. Presented January 22, 1914.—*Mr. Lachance*.
Not printed.
- 77c.** Return to an Order of the House of the 29th January, 1913, for a copy of all letters, petitions, telegrams, complaints, evidence, reports and other papers and documents in the possession of the Department of Railways and Canals, or of the Intercolonial Railway, or of the Government Railways Managing Board, relating or in any manner appertaining to the appointment and employment of train or ticket agents on the Intercolonial Railway and Prince Edward Island Railway, together with a copy of all statements showing the amounts received by said agents, in cash and tickets, on the trains of the respective divisions of said railways; and also showing the amounts received during corresponding periods for the past two years, in cash and tickets, on the same trains on the said respective divisions by the conductors of said trains, when no train or ticket agents were employed thereon, either before or since the employment of such agents on the respective trains and also a copy of all statements showing the results of the experiment in employing such ticket agents. Presented January 22, 1914.—*Mr. Emmerson*.
Not printed.
- 77d.** Partial Return to an Order of the House of the 9th December, 1912, for a return showing when Mr. J. G. H. Bergeron was appointed commissioner to hold investigations, the number of investigations held since his appointment, salary received in each case and the amount paid for travelling expenses in each case. Presented January 22, 1914.—*Mr. Lemieux*.
Not printed.
- 77e.** Return to an Address to His Royal Highness the Governor General of the 29th January, 1913, for a copy of all orders in council, memoranda or instructions issued to or written to H. P. Duchemin in connection with his appointment as a commissioner to conduct investigations regarding political partisanship in the Province of Nova Scotia; also a copy of all letters received by any department of the Government from the said H. P. Duchemin relating to such investigations since the date of his appointment as such commissioner, and all instructions of whatever nature that have been issued to him relating to such investigations. Presented January 22, 1914.—*Mr. Lemieux*.
Not printed.
- 77f.** Appointment of F. Roy, as postmaster of St. Philippe de Nery, Co., Province of Quebec. Presented January 22, 1914.—*Mr. Lapointe (Karamonasky)*.
Not printed.
- 77g.** Supplementary Return to an Order of the House of the 9th December, 1912, for a return showing when Mr. J. G. H. Bergeron was appointed commissioner to hold investigations, the number of investigations held since his appointment, salary received in each case and the amount paid for travelling expenses in each case. Presented February 23, 1914.—*Mr. Lemieux*.
Not printed.
- 77h.** Return to an Order of the House of the 9th February, 1914, for a copy of all correspondence, telegrams, and other documents, relating to the removal of T. J. Oliver, as Dominion Lands Agent at Humboldt, Saskatchewan, his appointment to his present position, and the appointment of his successor at Humboldt. Presented March 6, 1914.—*Mr. Neely*.
Not printed.
- 77i.** Return to an Order of the House of the 9th February, 1914, for a copy of all correspondence, telegrams, letters of instructions, or other documents relating to the removal of W. S. McKechnie, as Dominion Lands Agent at Prince Albert, Saskatchewan, and the appointment of his successor. Presented March 6, 1914.—*Mr. Neely*.
Not printed.
- 77j.** Return to an Order of the House of the 2nd February, 1914, for a copy of all correspondence, telegrams and papers generally in connection with the appointment of Joseph Lemieux as postmaster at Mont Louis, County of Gaspé. Presented March 6, 1914.—*Mr. Lemieux*.
Not printed.
- 77k.** Return to an Order of the House of the 7th April, 1913, for a copy of all correspondence, telegrams, petitions, affidavits, complaints, certificates, recommendations, reports and other documents relating to the engagement and appointment for the year 1913, of the captains and first and second engineers for dredging machines Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 and 11 of the Department of Marine and Fisheries, under the control of the agency at Sorel, and employed in the deepening of the St. Lawrence below Montreal. Return to an Order of the House of the 7th April, 1913, for a copy of all correspondence, telegrams, petitions, affidavits, complaints, certificates, recommendations, reports and other documents, relating to the engagement and appointment of the captains and engineers for the year 1913, for the tugs *Carnegie*, *Chaplin*, *Chateaugay*, *De Lévis*, *Emilia*, *Iberville*, *James Howden*, *Jesse Hunt*, *La St. Pierre*, *Lanora*, *Lotbinière*, *Portneuf*, *Varennes* and *Verchères*, of the Department of Marine and Fisheries under the control of the agency at Sorel. Presented March 23, 1914.—*Mr. Curdin*.
Not printed.

CONTENTS OF VOLUME 28—*Continued.*

- 77l.** Return to an Order of the House of the 23rd March, 1914, for a return showing:—
 1. How many additional employees have been added to the Customs Department in the City of Halifax, since October 10, 1911.
 2. Their names and salaries at the time of their appointment, their respective salaries at present, and also their respective ages at the time of appointment.
 3. Whether all of them passed the necessary Civil Service examinations for the Customs service.
 4. How many temporary clerks there are upon the said Customs staff, who they are, and the dates of their appointment. Presented April 2, 1914.—*Mr. Maclean (Halifax)* *Not printed.*
- 77m.** Return to an Order of the House of the 28th April, 1913, for a copy of all letters and telegrams exchanged between the Government and Messrs. Arch. Macdonald, Elz. Monpeit and others, on the subject of the appointment of caretakers of the post office at Rigaud, Messrs. Jean Baptiste Charlebois and Napoleon Vallée. Presented April 2, 1914.—*Mr. Boyer* *Not printed.*
- 77n.** Return to an Order of the House of the 23rd February, 1914, for a copy of all correspondence, recommendations, &c., relating to the appointment of Allan Morrison, St. Peter's, N.S., as inspector of dwellings erected on Gregory Island, Richmond County, N.S., in 1912-1913, and of all accounts, charges, vouchers, &c., rendered to the Department of Marine and Fisheries by the said Allan Morrison as such inspector. Presented April 7, 1914.—*Mr. Kyte* *Not printed.*
- 77o.** Return to an Order of the House of the 9th February, 1914, for a return showing the names, date of appointment, length of service, remuneration and office held by each of all the employees of the Department of the Interior in the outside service since January 1, 1912, to December 31, 1913, not given in the Civil Service list of 1912 or 1913. Presented April 21, 1914.—*Mr. Neely* *Not printed.*
- 77p.** Return to an Order of the House of the 16th April, 1914, for a return showing:—
 1. How many appointments have been made in the Customs Department at Montreal since the 1st of October, 1911.
 2. The names of the persons so appointed, and the dates of their respective appointments.
 3. After what recommendations have they been appointed.
 4. The salary of each of these new employees.
 5. What increases of salaries have been granted in the same department since the same date, and to whom, and why. Presented April 29, 1914.—*Mr. Proulx* *Not printed.*
- 77q.** Return to an Order of the House of the 2nd February, 1914, for a return showing the number of engineers, assistant engineers, draftsmen, clerks, divers, and students in engineering or surveying, or other parties employed by the Department of Public Works in the constituency of Bonaventure, from October 11, 1911, to date, with their names, residences, salaries, nature of their work, time employed, and on whose recommendation, together with a copy of all correspondence, and reports bearing on such employment, and of reports made to the said Department of Public Works in that constituency from January, 1913, to date. Presented April 30, 1914.—*Mr. Marcell (Bonaventure)* *Not printed.*
- 77r.** Return to an Order of the House of the 12th March, 1914, for a return showing:—
 1. Whether Louis Philippe Thibault, Alphonse Poirier, J. A. Morin, C. F. Rioux, Thomas Thibault and Adjutor Demers, of Lévis, have been appointed to positions under the control of the Postmaster General of Canada.
 2. If so, to what positions they have been appointed, what their duties are, when they were appointed and their salaries, respectively.
 3. The names of the officers who have been dismissed and replaced by the above.
 4. The total amount of the annual salaries of said dismissed officers. Presented May 4, 1914.—*Mr. Bourassa* *Not printed.*
- 77s.** Return to an Order of the House of the 16th March, 1914, for a copy of all recommendations, protests, petitions, and representations received by the Government or any Department or Minister thereof, regarding the appointment of the present collector of customs at Antigonish, and of all the letters, telegrams and correspondence relating thereto. Presented May 15, 1914.—*Mr. Chisholm (Inverness)* *Not printed.*
- 77t.** Return to an Order of the House of the 16th March, 1914, for a copy of all recommendations, protests, petitions, and representations received by the Government or any Department or Minister thereof, regarding the appointment of the present collector of customs at Antigonish, and of all the letters, telegrams and correspondence relating thereto. Presented May 16, 1914.—*Mr. Chisholm (Antigonish)* *Not printed.*
- 77u.** Return to an Order of the House of the 16th February, 1914, for a copy of all papers in connection with the employment of Arthur Dubisson as immigration agent at Gravelburg, Sask., and all papers in connection with the said Dubisson, showing the moneys paid to him and the work performed by him. Presented May 30, 1914.—*Mr. Knowles* *Not printed.*

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78. Return to an Order of the House of the 7th April, 1913, for a copy of all documents, recommendations and correspondence relating to the resignation of C. A. R. Desjardins, as postmaster at St. André de Kamouraska, and the appointment of his successor. Presented January 22, 1914. *Mr. Lapointe (Kamouraska)*. *Not printed.*
- 78a. Return to an Order of the House of the 28th April, 1913, for a copy of all correspondence or charges against Fred R. Nash, postmaster at Afton, N.S., and of all correspondence, suitable in reference thereto. Presented January 22, 1914. *Mr. O'Hara (Afton)*. *Not printed.*
79. Return to an Order of the House of the 29th January, 1913, for a copy of all correspondence, post-Office correspondence, and the application made by the Long Sault Development Company, with a view to dam the St. Lawrence river above the Long Sault rapids from the American to the Canadian side. Presented January 22, 1914. *Mr. Lebour*. *Not printed.*
- 79a. Supplementary Return to an Order of the House of the 24th January, 1913, for a copy of all correspondence, papers, &c., concerning the application made by the Long Sault Development Company, with a view to dam the St. Lawrence river above the Long Sault rapids from the American to the Canadian side. Presented February 12, 1914. *Mr. Lebour*. *Not printed.*
80. Return to an Order of the House of the 21st April, 1913, for a return showing all leases of water powers granted on the Wabigoon river, the dates of such leases to whom granted, and the location of the water power covered by each, together with a copy of all correspondence passing between the Government or the public thereon, and any person or persons, with respect to such leases. Presented January 22, 1914. *Mr. Martin (Rupert)*. *Not printed.*
- 80a. Return to an Order of the House of the 2nd April, 1914, for a return showing whether the Government or any water lot leasee of the Government has, or has not, the dates of such a water lot lease, the names of the leasees, the names of the water lot leasees in force, and the rental paid in each case, together with the reasons why some water lot leases on the said river have not been cancelled, and the reasons why some leases were cancelled and others not, and if tenders are to be invited through the press for such water lot leases. Presented January 22, 1914. *Mr. B. B. Cameron*. *Not printed.*
- 80b. Return to an Order of the House of the 2nd April, 1914, for a return showing all leases or permits granted to or by any individual, partnership, firm, company or corporation, or a Rubean canal, between any river or water body in the Province of Ontario, and such leases or permits to whom granted, the dates of such leases or permits, the names of the leasees or permittees, and the rental paid in each case, together with a copy of all correspondence between the Government or the public thereon, and any person or persons with respect to such leases or permits, and the reasons why some leases or permits are to be invited through the press for such water lot leases. Presented January 22, 1914. *Mr. Mackay*. *Not printed.*
- 80c. Supplementary Return to an Order of the House of the 2nd April, 1914, for a return showing whether the Government or any water lot leasee of the Government has, or has not, if so, the date of such cancellation, the names of the leasees, the date of the cancelled leases were cancelled, and the rental paid in each case, the names of the leasees whose water lot leases on the said river have not been cancelled, and the rental paid by each; the reasons why some leases were cancelled and others allowed to remain in force; and if tenders are to be invited through the press for such water lot leases in future. Presented March 13, 1914. *Mr. Richardson*. *Not printed.*
- 80d. Return to an Order of the House of the 2nd March, 1914, for a copy of the agreement for a lease of water power on the Saskatchewan river at Rocky Rapids, Alberta, made with the Edmonton Power Company, with information detailed as to the operation covered on by the company to date. Presented April 21, 1914. *Mr. O'Sullivan*. *Not printed.*
81. Return to an Order of the House of the 28th April, 1913, for a return showing a list of all newspapers in Canada in which advertisements have been inserted by the Government, or any minister, officer or department thereof, between October 10, 1911, and the present date, together with a statement of the gross amount paid therefor by the Government above rates to each of said newspapers or to the proprietors of the same. Presented January 22, 1914. *Mr. Sinclair*. *Not printed.*
- 81a. Partial Return to an Order of the House of the 30th April, 1913, for a return showing a list of all newspapers in Canada in which advertisements have been inserted by the Government, or any minister, officer or department thereof, between the 10th day of October, 1906, and 10th October, 1907, and between said dates in each of the years following up to the 10th of October, 1911, together with a statement of the gross amount paid therefor for the years mentioned, to each of the said newspapers or the proprietors of the same. Presented January 22, 1914. *Mr. Thornton*. *Not printed.*

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- 81b.** Supplementary Return to an Order of the House of the 30th April, 1913, for a return showing a list of all the newspapers in Canada in which advertisements have been inserted by the Government, or any minister, officer or department thereof, between the 10th day of October, 1906, and 10th October, 1907, and between said dates in each of the years following up to the 10th of October, 1911, together with a statement of the gross amount paid therefor for the years mentioned, to each of the said newspapers or the proprietors of the same. Presented April 1, 1914.—*Mr. Thornton*.....*Not printed.*
- 81c.** Further Supplementary Return to an Order of the House of the 28th April, 1913, for a return showing a list of all the newspapers in Canada in which advertisements have been inserted by the Government, or any minister, officer or department thereof, between October 10, 1911, and the present date, together with a statement of the gross amount paid therefor between the above dates to each of said newspapers or to the proprietors of the same. Presented April 2, 1914.—*Mr. Sinclair*.....*Not printed.*
- 81d.** Supplementary Return to an Order of the House of the 30th April, 1913, for a Return showing a list of all the newspapers in Canada in which advertisements have been inserted by the Government, or any minister, officer or department thereof, between the 10th day of October, 1906, and 10th October, 1907, and between said dates in each of the years following up to the 10th of October, 1911; together with a statement of the gross amount paid therefor for the years mentioned, to each of the said newspapers or the proprietors of the same. Presented April 2, 1914.—*Mr. Thornton*....*Not printed.*
- 81e.** Return to an Order of the House of the 15th April, 1914, for a return showing how much money has been paid by the Government, or any department thereof, since October 10, 1911, to the Herald Publishing Company of Halifax, N.S., for advertising, printing and lithographing. Presented April 27, 1914.—*Mr. Sinclair*.....*Not printed.*
- 81f.** Return to an Order of the House of the 4th February, 1914, for a return showing the names of all printing and publishing companies, and newspapers in Nova Scotia to whom any sum of money has been paid respectively, by any department of Government, during the calendar years 1912 and 1913 respectively, and the nature of the service rendered therefor. Presented April 29, 1914.—*Mr. Maclean (Halifax)*....*Not printed.*
- 81g.** Supplementary Return to an Order of the House of the 28th April, 1913, for a return showing a list of all the newspapers in Canada in which advertisements have been inserted by the Government, or any minister, officer or department thereof, between October 10, 1911, and the present date, together with a statement of the gross amount paid therefor between the above dates to each of said newspapers or to the proprietors of the same. Presented May 11, 1914.—*Mr. Sinclair*.....*Not printed.*
- 82.** Return to an Order of the House of the 3rd February, 1913, for a copy of all letters, correspondence, reports and other documents in the possession of the Department of Railways and Canals relating to an application by the Central Railway Company of Canada to the Honourable Minister of Railways and Canals for the approval of their proposed route between Hawkesbury and South Indian. Presented January 22, 1914.—*Mr. Proulx*.....*Not printed.*
- 83.** Return to an Order of the House of the 9th December, 1912, for a copy of all documents, papers, memoranda, rulings, findings, appeals and correspondence relating to any appeal asserted from any decision, ruling or finding of the Board of Railway Commissioners of Canada to the Privy Council of Canada, and the action taken by the Privy Council thereon. Presented January 22, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*
- 84.** Return to an Order of the House of the 7th May, 1913, for a return showing the total cost of the Elmira Branch Railway in Prince Edward Island; the total amounts paid the contractors, Whitehead Brothers; the total amount paid by the Government after taking the work off the contractor's hands, and showing the amount paid in wages each month, the names of the men to whom it was paid, the positions they held, and the wages per day to each; also showing what materials were used, each kind and class, with the cost of each, from whom purchased, and when, and the quantities left over, if any. Presented January 22, 1914.—*Mr. Hughes (P.E.I.)*.....*Not printed.*
- 85.** Return to an Order of the House of the 15th January, 1913, for a copy of all letters, telegrams, correspondence and documents referring in any way to the claim of the municipalities of Pictou, Antigonish, Guysboro and St. Mary's for payment or refund to them of the monies paid by said municipalities for the right of way of that part of the Intercolonial Railway running through the Counties of Pictou, Antigonish and Guysboro. Presented January 22, 1914.—*Mr. Chisholm (Antigonish)*.....*Not printed.*
- 85a.** Return to an Order of the House of the 12th May, 1913, for a copy of all claims made by H. F. McDougall, of Grand Narrows, N.S., against the Intercolonial Railway, and of all letters, telegrams and other documents in connection with the said claim or claims; together with the particulars of said claims; the amount or amounts paid upon said claim or claims; the particular items of the claim or claims upon which payments, if any, were made; the date of the filing of the claims and of the payment or payments made thereon; and the total amount paid on said claims or upon any other claims made by the said H. F. McDougall against the said Intercolonial Railway or the Government of Canada. Presented January 22, 1914.—*Mr. Sinclair*.....*Not printed.*

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- 85b.** Return to an Order of the House of the 16th February, 1914, for a copy of all documents, letters, petitions, telegrams and evidence heard, reports, &c., in connection with the claims of Eugene Demers and Joseph Olivier, of the parish of St. Nicholas, County of Lévis, for damages arising out of fires caused by the Intercolonial Railway's locomotives, and, if investigators have been held, a copy of all evidence and documents relating thereto. Presented March 6, 1914.—*Mr. Bourassa*.....Not printed.
- 85c.** Return to an Order of the House of the 27th April, 1914, for a copy of all letters, telegrams, reports, correspondence and documents relative to the claims made for damages from a fire in the village of Hopewell, County of Peterborough, which was occasioned by sparks from a locomotive on the Intercolonial Railway. Presented May 13, 1914.—*Mr. Macdonald*.....Not printed.
- 86.** Return to an Order of the House of the 14th May, 1913, for a copy of all reports, correspondence and other documents on file in the Department of Railways and Canals relating in any way to a suggested survey and construction of a line of railways from County Harbour, Guysborough County, N.S., to Cape George, N.S., or any other point in Antigonish County. Presented January 22, 1914.—*Mr. Chisholm (Antigonish)*.....
Not printed.
- 86a.** Return to an Order of the House of the 20th January, 1914, for a copy of all letters, written to the Right Honourable the Prime Minister, the Honourable the Minister of Railways and Canals, or any other member of the Government since October 10, 1911, by S. L. Gault, Antigonish, N.S., John S. Weiss, White Head, N.S., and J. A. R. Rowlings, Sydney, N.S., relating to the construction of a branch line of the Intercolonial Railway to the County of Antigonish, N.S., and of the replies to the same. Presented January 22, 1914.—*Mr. St. Lawrence*.....Not printed.
- 87.** Return to an Order of the House of the 27th January, 1913, for a copy of the contract entered into by C. R. Seaton, New Glasgow, N.S., with the Department of Railways and Canals for the completion of the Atlantic and the Superior Railway between Caplan and Pictou, and of the report of the contractors, with a list of details of payments, and of all documents bearing on the matter. Presented January 22, 1914.—*Mr. Baird*.....Not printed.
- 88.** Return to an Order of the House of the 11st May, 1914, for a copy of all documents, correspondence, reports and inquiries, relating to an accident which occurred at T. J. S. Pothol's, Intercolonial Railway, on 12th September, 1912, respecting the death of Arsène Ouellet, and the wounds inflicted on Joseph Gagnon, at the time that these two men were struck by train No. 119 on the Capeable. Presented January 22, 1914.—*Mr. Robby*.....Not printed.
- 89.** Annual Return respecting Trade Marks under Chapter 125, R.S.C., 1905. Presented by Hon. Mr. Gouin, January 22, 1914.....Not printed.
- 90.** Return to an Order of the House of the 29th January, 1913, for a return showing:—
1. What purchases of land have been made by the Dominion of Canada since Confederation?
 2. The amount of money paid for same.
 3. The approximate area of land so purchased?
 4. In what provinces the said lands are situated?
 5. The approximate area in each province?
 6. The acreage of school lands set aside by the Government for the Provinces of Manitoba, Saskatchewan and Alberta?
 7. The present approximate value of these school lands so set aside in each of the said Provinces?
 8. The number of acres of the said school lands actually sold in each of the said Provinces, and the proceeds of such sales in the same manner?
 9. The acreage of lands set aside for the use of the Government as an endowment to any university, the number of acres, and the flow and how many acres are situated?
 10. The number of acres of swamp lands transferred to the Province of Manitoba under the provisions of Chapter 10 of the Acts of 1870, and the proceeds therefrom?
 11. The gross amount of land allowance made at any time by the Federal Government to any of any Province of Canada, to assist in the construction of any railway public building?
 12. The approximate value of the railway, public works and other assets of each of the Provinces of Canada, taken over by the Federal Government at the time that each Province entered the union?
 13. The annual expenditure of moneys to the Provinces of Manitoba, Saskatchewan and Alberta, by reason of the fact that they are deprived of the public lands as a source of revenue?
 14. The debt allowance to any time made to the credit of each of the Provinces of Canada by the Federal Government. Presented January 22, 1914.—*Mr. Sinclair*.....
Not printed.

CONTENTS OF VOLUME 28—Continued.

- 90a.** Supplementary Return to an Order of the House of the 29th January, 1913, for a return showing:—
1. What purchases of land have been made by the Dominion of Canada since Confederation?
 2. The amount of money paid for same?
 3. The approximate area of land so purchased?
 4. In what Provinces the said land is now situated?
 5. The approximate area in each Province?
 6. The acreage of school lands set aside by the Government for the Provinces of Manitoba, Saskatchewan and Alberta?
 7. The present approximate value of the said school lands so set aside in each of the said Provinces?
 8. The number of acres of the said school lands already sold in each of the said Provinces, and the proceeds of such sales, deducting expenses.
 9. The acreage of lands set apart at any time by the Government as an endowment to any university, the name of the university, and the Province in which the lands are situated?
 10. The number of acres of swamp lands transferred to the Province of Manitoba under the provisions of Chapter 50 of the Acts of 1885 and amendments thereto?
 11. The gross amount of cash allowance made at any time by the Federal Government to each or any Province of Canada, to assist in the construction of necessary public buildings?
 12. The approximate value of the railway, public works and other assets of each of the Provinces of Canada, taken over by the Federal Government at the time that each Province entered the union?
 13. The annual compensation made to the Provinces of Manitoba, Saskatchewan and Alberta, by reason of the fact that they are deprived of the public lands as a source of revenue?
 14. The debt allowance to any time placed to the crédit of each of the Provinces of Canada by the Federal Government. Presented March 12, 1914.—*Mr. Sinclair*,
Not printed.
- 91.** Partial Return to an Order of the House of the 12th May, 1913, for a return showing the names and purposes of the several Commissions created by legislation or Orders in Council since October 12, 1911; the names of the members of the several commissioners, with their respective salaries and remuneration; the names of commissions still in existence; and the names of commissions created since October 12, 1911, which have ceased to exist. Presented January 22, 1914.—*Mr. Oliver*.....*Not printed.*
- 91a.** Partial Return to an Address to His Royal Highness the Governor General of the 4th December, 1912, for a copy of each Commission issued by the Government since October 10, 1911, directing an investigation to be held; and also for a copy of the evidence taken and the report made in each case that has been concluded. Presented January 22, 1914.—*Mr. Murphy*.....*Not printed.*
- 91b.** Further Supplementary Return to an Address to His Royal Highness the Governor General of the 4th December, 1912, for a copy of each Commission issued by the Government since October 10, 1911, directing an investigation to be held; and also for a copy of the evidence taken and the report made in each case that has been concluded. Presented February 9, 1914.—*Mr. Murphy*.....*Not printed.*
- 91c.** Return to an Order of the House of the 9th December, 1912, for a return showing the number of Commissions formed by the Government since September 21, 1912, the names and the occupations of the Commissioners appointed, their duties, the duration of their services, and their remuneration. Presented February 12, 1914.—*Mr. Devlin*,
Not printed.
- 91d.** Return to an Address to His Royal Highness the Governor General of the 9th February, 1914, for a copy of the Order in Council appointing a Commission for the purpose of beautifying the city of Ottawa and vicinity, of all correspondence with regard to the same, and of all reports made by the commission up to date. Presented March 6, 1914.—*Sir W. Laurier*.....*Not printed.*
- 91e.** Supplementary Return to an Order of the House of the 12th May, 1913, for a return showing the names and purposes of the several Commissions created by legislation or Orders in Council since October 12, 1911; the names of the members of the several commissioners, with their respective salaries and remuneration; the names of commissions still in existence; and the names of commissions created since October 12, 1911, which have ceased to exist. Presented March 9, 1914.—*Mr. Oliver*.....*Not printed.*
- 91f.** Return to an Order of the House of the 9th February, 1914, for a return showing the number and particulars of Commissions appointed or issued under the Inquiries Act since October 1, 1911, the purpose or object thereof, the name of the Commissioner or Commissioners, and the cost of each to the present time. Presented May 29, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*

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92. Partial Return to an Order of the House of the 28th April, 1913, for a return showing all those who have been holding investigations within the judicial district of Three Rivers, since October 15, 1911, to date, in reference to the conduct of men holding offices from the Dominion Government, the place where each investigation was held, the amount paid to each investigator in each case; the names of the solutors employed in each case, the post office addresses, and the amount paid in each case to the solutor. Presented January 23, 1914. *Mr. Bureau*..... *Not printed.*
93. Return to an Order of the House of the 26th March, 1913, for a return showing whether the Government paid or intends to pay fees and disbursements of the witnesses summoned by the commissioners appointed by it in the County of Lévis, to hold inquiries on the conduct of public officers whose dismissal had been requested; the amounts which have been paid and to whom, and the sum remaining to be paid for the same purpose. Presented January 23, 1914. *Mr. Bureau*..... *Not printed.*
- 93a. Partial Return to an Order of the House of the 1th June, 1913, for a return showing the total expenditure to date by the present administration in connection with the investigation of charged partisan conduct against officials. Presented January 23, 1914. *Mr. Sinclair*..... *Not printed.*
- 93b. Partial Return to an Order of the House of the 7th May 1913, for a return showing in detail the names of witnesses summoned by Commissioner H. P. Duchon, in connection with all investigations held by him in the counties of North Cape Breton and Victoria, South Cape Breton, Inverness and Antigonish, Nova Scotia, and the amounts paid in each such case. Presented January 23, 1914. *Mr. Carroll*..... *Not printed.*
- 93c. Return to an Order of the House of the 9th April, 1913, for a return showing in detail the expenditure incurred since October 11, 1911, in connection with investigations held in Bonaventure County by commissioners appointed by the Departments of the Post Office, Customs and Marine and Fisheries into charge made against employees of said departments of offensive political partisanship, together with the names and amounts paid to each of said commissioners in each investigation, as well as details of amounts paid to witnesses and others. Presented January 23, 1914. *Mr. Marcell*..... *Not printed.*
- 93d. Return to an Order of the House of the 25th February 1913 for a copy of all statements of account for salary or remuneration to the commissioner, and his expenses for witnesses fees, and all other expenses in connection with the investigation by Commissioner Duchon, of the following persons in the County of Guysboro, Nova Scotia namely:—
 H. L. Tory, fishery officer, Guysboro.
 John W. Davis, fishery officer, Guysboro.
 Patrick Shea, postmaster, Tompkinsville.
 John M. Rogers, postmaster, East River Valley.
 James Bowles, postmaster, Aller River.
 Abner M. Carr, postmaster, St. Francis, Harlowe.
 Everett Hadley, postmaster, Oyster Point.
 Parker S. Hart, postmaster, Lower Menchessee.
 S. M. Ferguson, preventive officer, Oyster Point.
 Robert Hendsbee, postmaster, Half Island Cove.
 A. E. Cox, Manager Reduction Works, Canso.
 Edward Kelly, engineer, Reduction Works, Canso.
 D. S. Hendsbee, weigher, Reduction Works, Canso.
 Alex. Roberts, postmaster, Canso.
 David Sutherland, caretaker, Canso.
 Henry Han'ou, chief engineer, Hatchery, Canso.
 Thos. Sullivan, assistant engineer, Canso.
 W. G. Matthew, coxswain life boat, Canso.
 Patrick Ryan, assistant coxswain life-boat, Canso.
 M. McCutcheon, postmaster, Senora.
 Stanley McCutcheon, preventive officer, Senora.
 Freeman Pride, lightkeeper, Senora.
 David Reid, fishery officer, Port Harford.
 L. M. Pye, customs officer, Liscomb.
 Stanley Hendow, lightkeeper, Liscomb.
 W. H. Hemlow, keeper storm drum, Liscomb.
 R. Conroy, postmaster, Country Harbour.
 John Milward, postmaster, Stormout.
 A. W. Salsman, postmaster, Lower Country Harbour.
 W. B. Harris, postmaster, Whitehead.
 E. L. Munro, customs officer, Whitehead.
 W. L. Munro, lightkeeper, Whitehead.
 Patrick Conway, lightkeeper, Whitehead.
 H. P. Munro, coxswain life-boat, Whitehead.
 Levi Munro, harbour master, Whitehead.
 William McKinnon, postmaster, Ernyville.

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J. H. McMillan, manager hatchery, Isaac's Harbour.
 Sanford Langley, postmaster, Isaac's Harbour North.
 Fred. E. Cox, engineer lobster hatchery, Isaac's Harbour.
 Simon Hodgson, assistant engineer, Isaac's Harbour.
 Archibald Brass, postmaster, L. New Harbour.
 Parker Singster, postmaster, New Harbour West.
 William Gerrior, customs officer, Larry's River.
 James M. Webber, lightkeeper, Torbay Point.
 W. A. Hattie, preventive officer, Mulgrave.
 J. F. Reeves, postmaster, Mulgrave.
 John P. Meagher, foreman deck-hand, Mulgrave.
 Philip H. Ryan, Intercolonial Railway employee, Mulgrave.
 Alex. Wilkinson, Intercolonial Railway employee, Mulgrave.
 Alex. McInnis, car inspector, Mulgrave.
 Frank Fougere, postmaster, Port Felix.
 Sam. Smith, postmaster, Port Felix, West.
 Captain Freeman Myers, postmaster, Cole Harbour.
 George Taylor, postmaster, Beckerton.
 Stephen C. Richard, lightkeeper, Charlo's Cove. Presented January 26, 1914.—*Mr.*

Sinclair*Not printed.*

- 93c. Supplementary Return to an Order of the House of the 7th May, 1913, for a return showing in detail the names of witnesses summoned by Commissioner H. P. Duchemin in connection with all investigations held by him in the Counties of North Cape Breton and Victoria, South Cape Breton, Inverness and Antigonish, Nova Scotia, and the amounts paid in each such case. Presented February 10, 1914.—*Mr. Carroll*.....*Not printed.*
- 93f. Return to an Order of the House of the 9th December, 1912, for a return showing when H. P. Duchemin, of Sydney, Nova Scotia, was appointed commissioner to hold investigations, the number of investigations held since his appointment, names of officials investigated, if evidence and report in each investigation has been forwarded by Mr. Duchemin to the department interested, if not, in what cases has no evidence and report been submitted, salary or remuneration received in each case, and amount paid for travelling expenses in each case. Presented February 10, 1914.—*Mr. Carroll*.....*Not printed.*
- 93g. Return to an Order of the House of the 23rd February, 1914, for a return showing the expenditures by the Intercolonial Railway in connection with all the inquiries and investigations held by H. P. Duchemin, concerning any and all employees of the Department of Railways and Canals, or of the Intercolonial Railway, for any cause whatever, and relating to any complaints or charges, or to any matter of whatsoever nature, giving in detail the items of all accounts or bills of or payments to the said H. P. Duchemin in connection with same, during the years 1912, 1913, and for the year 1914 to date; together with a statement showing the total amounts paid in each specified investigation and the total paid in each year, for the whole period to the said H. P. Duchemin. Presented March 5, 1914.—*Mr. Emmerson*.....*Not printed.*
- 93h. Supplementary Return to an Order of the House of the 7th May, 1913, for a return showing in detail the names of witnesses summoned by Commissioner H. P. Duchemin in connection with all investigations held by him in the Counties of North Cape Breton and Victoria, South Cape Breton, Inverness and Antigonish, Nova Scotia, and the amounts paid in each such case. Presented March 17, 1914.—*Mr. Carroll*.....*Not printed.*
- 93i. Return to an Order of the House of the 23rd March, 1914, for a return showing in detail the expenses and cost of an inquiry or investigation held by Commissioner Adair, under the authority of the Department of Railways and Canals, into the affairs of the Electrical Branch of the Intercolonial Railway at Moncton, and the conduct of John W. Gaskin and others, in relation to their services in said branch or otherwise, held during the year 1912; together with the names of the commissioner, the agents, attorneys, counsel, constables, police officers, detectives, witnesses or other persons in connection with said inquiry; the number of days consumed and paid for in the conduct thereof, and the services rendered by each person in connection therewith; and a detailed statement of the sum or sums of money paid to each party therefore, at what rate and the amounts paid to each witness sworn and in attendance or otherwise, together with a copy of all bills, claims or accounts rendered in connection with said inquiry, and of all vouchers for moneys paid, by whom paid and to whom; with a copy of all letters or other correspondence relating to the appointment of a commissioner, and of counsel to be engaged or other officers employed, and relating to the compensation to be paid for services, and in connection with any of said bills, accounts, payments and vouchers, with a statement or summary of the total cost of said investigation, showing the number of railway employees called as witnesses, the witness fees allowed and paid them, and the cases in which their time respectively was not allowed them while absent to give such evidence and the cases to which such time was allowed and no deduction made from their wages or salaries for the period of their absence in attendance at such inquiry as such witnesses respectively. Presented May 13, 1914.—*Mr. Emmerson*....*Not printed.*

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94. Return to an Order of the House of the 9th December, 1912, for a return showing how many citizens of the United States have been employed by the Government since November 1, 1911, in what departments employed, their names and descriptions and salary paid to each, and also, the number reported under section 21 of the Civil Service Act. Presented January 24, 1914.—*Mr. Morphy*..... *Not printed.*
95. Return to an Order of the House of the 27th April, 1913, for a copy of all letters, telegrams, papers and documents in any way relating to the purchase of property at Long Beach St. Mary's, High County, N.S., for a Webster post. Presented January 23, 1914.—*Mr. Barr*..... *Not printed.*
96. Return to an Order of the House of the 24th February, 1913, for a copy of all reports, petitions &c. made not only by the public, but by the members of the House of Commons, of the County of Cope, Editor, for subscribers for books, which a committee of the House had passed on the 11th day. Presented January 23, 1914.—*Mr. Carr*..... *Not printed.*
97. Return to an Order of the House of the 27th March, 1913, for a copy of all reports, correspondence, memoranda and other documents, the custody or control of the Militia Department or the Royal Devon Militia concerning matters brought to the attention of the Militia Department by B. A. Ingham, of Sydney, N.S., with reference to the transportation of the Sydney militia over the Intercolonial Railway in the year 1912. Presented January 23, 1914.—*Mr. Carr*..... *Not printed.*
98. Medical inspection of recruits at post of the 1st Cavalry Brigade, South Africa..... *Not printed.*
99. Public health review, several branches of B.S. (London)..... *Not printed.*
100. Proposed harbor at St. James Bay, St. Lawrence..... *Not printed.*
101. Investigation held in 1912 re declining output of the B.S. (London)..... *Not printed.*
- 101a. Investigation held by Mr. W. S. Bell, re declining output of the B.S. (London)..... *Not printed.*
102. Quantities of wheat by gross received at ports of East W. Indies..... *Not printed.*
103. Proposed railway for a short way by the route of the R. & A. Railway, N.B. Presented January 26, 1914.—*Mr. Mead*..... *Not printed.*
104. relating to the employees of the Industrial Department of the Government, the program and returns, &c. Presented January 6, 1914.—*Mr. W. S. Bell*..... *Not printed.*
- 104a. Return to an Order of the House of the 11th December, 1912, for a return showing for each department of the Civil Service, the names and positions of all persons employed for each department in the month of October, 1911, and the names of all persons not in the Civil Service employed by the Government in the same month, and also the 10th October, 1911; and in cases where removal from office or resignation was appointed, as have been removed from office or resignation, specifying in each case the number of, and grounds for, removal, and the length of notice given to the person removed, and the amount of superannuation or gratuity granted, if any; also showing the name, age, position, and salary of every person appointed to the Civil Service in the place of any person removed, as a consequence of any such removal. Presented January 26, 1914.—*Mr. Morphy*..... *Not printed.*
- 104b. Partial Return to an Order of the House of the 11th December, 1912, for a return showing for each department of the Civil Service, the names and positions of all persons of such persons employed either in the month of October, 1911, or in any other month of such persons not in the Civil Service employed by the Government in the same month, and also the 10th October, 1911; and in cases where removal from office or resignation was appointed, as have been removed from office or resignation, specifying in each case the number of, and grounds for, removal, and the length of notice given to the person removed, and the amount of superannuation or gratuity granted, if any; also showing the name, age, position, and salary of every person appointed to the Civil Service in the place of any person removed, as a consequence of any such removal. Presented February 19, 1914.—*Mr. Morphy*..... *Not printed.*
- 104c. Further Supplementary Return to an Order of the House of the 11th December, 1912, for a return showing for each department of the Civil Service, the names and positions of all persons of such persons employed either in the month of October, 1911, or in any other month, and of such persons not in the Civil Service employed by the Government in the same month, and also the 10th October, 1911; and in cases where removal from office or resignation was appointed, as have been removed from office or resignation, specifying in each case the number of, and grounds for, removal, and the length of notice given to the person removed, and the amount of superannuation or gratuity granted, if any; also showing the name, age, position, and salary of every person appointed to the Civil Service in the place of any person removed, as a consequence of any such removal. Presented March 19, 1914.—*Mr. Morphy*..... *Not printed.*

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- 104d.** Return to an Order of the House of the 23rd February, 1914, for a return showing the total number of officials and employees in the Department of Public Printing and Stationery on February 1, 1914; and the increase in wages granted to the several groups of employees during the year 1913. Presented March 18, 1914.—*Mr. Murphy.*
Not printed.
- 104e.** Return to an Order of the House of the 23rd February, 1914, for a return showing how many persons have been appointed to positions in the Inside Civil Service since October 10, 1911, who had not passed the public competitive examination held by the Civil Service Commission in May and November of each year.
2. How many of such persons were appointed in each department. Presented March 23, 1914.—*Mr. Murphy.*.....*Not printed.*
- 104f.** Return to an order of the House of the 4th March, 1914, for a return showing how many persons have been appointed to the Inside Service of the Post Office Department by the present Government, with the names of the appointees, the grade each of them was appointed to, and the salary in each case; how many of these appointees passed the Civil Service examination, and how many did not do so, with the names in each case. Presented April 1, 1914.—*Mr. Proulx.*.....*Not printed.*
- 104g.** Further Supplementary Return to an Order of the House of 11th December, 1912, for a return showing for each department of the Civil Service, the names, ages, offices and salaries of such persons employed either in the inside or outside divisions thereof, and of such persons not in the Civil Service employed by the Government in any department since the 10th October, 1911; and in cases where no commission of investigation was appointed, as have been removed from office by dismissal, superannuation or otherwise, specifying in each case the manner of, and grounds for such removal, and the length of notice given to the person removed, and the amount of superannuation or gratuity granted, if any; also showing the name, age, office and salary or remuneration of any and every person appointed to the Civil Service in the place of, or as a consequence of any such removal. Presented April 2, 1914.—*Mr. Murphy.*.....*Not printed.*
- 104h.** Return to an Order of the House of the 2nd April, 1914, for a return showing how many certificates for promotion have been asked from the Civil Service Commissioners since the 31st March, 1913; how many of such certificates have been refused, and to whom, and the reasons given in each case for such refusal. Presented April 16, 1914.—*Mr. Carroll.*.....*Not printed.*
- 104i.** Return to an Order of the House of the 30th March, 1914, for a return showing the salary of each deputy minister; the number of clerks or employees under each of the deputy ministers, or over whose work the deputy is supposed to exercise supervision; the salary of the Customs Commissioner, and length of time employed. Presented April 23, 1914.—*Mr. Chisholm (Inverness).*.....*Not printed.*
- 105.** Return called for by Section 88, of Chapter 62, Revised Statutes of Canada, requiring that the Minister of the Interior shall lay before Parliament, each year, a return of liquor brought from any place out of Canada into the Territories by special permission in writing of the Commissioner of the Northwest Territories. Presented by Hon. Mr. Roche, January 27, 1914.....*Not printed.*
- 106.** Copy of the Seventh Joint Report of the Commissioners for the Demarcation of the Meridian of the 141st Degree of West Longitude. Presented by Hon. Mr. Roche, January 28, 1913.....*Not printed.*
- 107.** Return showing lands sold by the Canadian Pacific Railway Company during the year which ended on the 1st October, 1913. Presented by Hon. Mr. Roche, January 28, 1914.
Not printed.
- 108.** Regulations relating to the Parcel Post Service, 1914. Presented by Hon. Mr. Pelletier, January 28, 1914.....*Not printed.*
- 109.** Report of the proceedings of the Commissioners of Internal Economy of the House of Commons for 1912-1913, pursuant to Rule 9. Presented by His Honour the Speaker, February 2, 1913.....*Not printed.*
- 110.** Return of Orders in Council which have been published in the *Canada Gazette* between the 1st October, 1912, and 30th November, 1913, in accordance with the provisions of "The Forest Reserves and Park Act," Section 19, of Chapter 10, 1-2 George V. Presented by Hon. Mr. Roche, February 2, 1914.....*Not printed.*
- 110a.** Return of Orders in Council which have been published in the *Canada Gazette*, between the 1st October, 1912, and 30th November, 1913, in accordance with the provisions of Section 5 of "The Dominion Lands Survey Act," Chapter 21, 7-8 Edward VII.
Not printed.
- 110b.** Return of Orders in Council which have been published in the *Canada Gazette*, between 1st October, 1912, and 30th November, 1913, in accordance with the provisions of Section 77 of "The Dominion Lands Act," Chapter 20 of the Statutes of Canada, 1908.
Not printed.

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- 110c.** Return of Orders in Council which have been published in the *Canada Gazette* since the British Columbia *Gazette*, between 1st October, 1912, and 24th November, 1913, in accordance with provisions of subsection (d) of Section 38 of the regulations under the survey administration, division and management of Dominion lands within the territory railway belt in the Province of British Columbia. Presented by Hon. Mr. Doherty, February 2, 1914. *Not printed.*
- 110d.** Return of copies of all Orders in Council, plans, papers and correspondence which are required to be presented to the House of Commons, under a resolution passed on the 29th February, 1882, since the date of the last return, under such resolution. Presented by Hon. Mr. Borden, February 28, 1914. *Not printed.*
- 110e.** Return to an Order of the House of the 29th February, 1914, for a copy of all letters, papers, memoranda, reports, departmental and all other documents, connected in any way with the entry and demarcation proceedings, in respect the homestead entry of James Brown in the south-east quarter section 26, in township 42, range 27, West second meridian. Presented March 6, 1914. *Mr. Knowles.* *Not printed.*
- 110f.** Return to an Order of the House of the 29th February, 1914, for a copy of all papers in connection with the demarcation of the S.E. ¼, section 16, township 25, range 5, West 4th meridian. Presented March 10, 1914. *Mr. O'Brien.* *Not printed.*
- 110g.** Return to an Order of the House of the 16th February, 1914, for a copy of all papers in connection with the S.W. ¼, 23-16-12 W. 3 M. Presented March 10, 1914. *Mr. Knowles.* *Not printed.*
- 110h.** Return to an Order of the House of the 16th February, 1914, for a copy of all papers in connection with the N.E. ¼ 22-11-5 W. 2 M. Presented March 12, 1914. *Mr. Borden.* *Not printed.*
- 110i.** Return to an Order of the House of the 23d February, 1914, for a copy of all letters, telegrams and papers concerning coal lands situated in S. 19, 27-18, 27-17 and 27-18 West of the fourth meridian. Presented April 21, 1914. *Mr. Borden.* *Not printed.*
- 110j.** Supplementary Return to an Order of the House of the 16th February, 1914, for a copy of all papers in connection with the N.E. ¼ 22-11-5 W. 3 M. Presented May 1, 1914. *Mr. Knowles.* *Not printed.*
- 110k.** Return to an Address to His Royal Highness the Duke of Cornwall, of the 29th April, 1914, for a copy of all documents, letters, telegrams, papers, orders, reports, maps and other documents of sale, in connection with the sale by the Government of the following lands in the railway belt in British Columbia: Township 23, range 24, range 18, townships 23 and 24, range 18, township 24, range 27, range 24, townships 25, 26 and 27, range 21; townships 26 and 27, range 22, all West of the fifth meridian. Presented May 18, 1914. *Mr. Borden.* *Not printed.*
- 110l.** Return to an Order of the House of the 27th April, 1914, for a copy of all letters, telegrams, &c., in the Department of the Interior in connection with the N.W. ¼ section 20-1, range 16 west of the second meridian. Presented May 18, 1914. *Mr. Borden.* *Not printed.*
- 110m.** Return to an Order of the House of the 27th April, 1914, for a copy of all papers, letters, telegrams, &c., in possession of the Department of the Interior in connection with the N-1-13-16-W. 2-M. Presented May 18, 1914. *Mr. Tupper.* *Not printed.*
- 111.** Correspondence between the Imperial Government and the Government of Canada, and other documents, relating to Imperial Naturalization. Presented by Hon. Mr. Doherty, February 4, 1914. *Not printed.*
- 111a.** Return to an order of the House of the 2nd February, 1914, for a copy of all correspondence and documents, or other information, as to the possession of an Award of British and the different Dominions, providing for uniformity of the Naturalization Law. Presented February 18, 1914. *Mr. Macdougall.* *Not printed.*
- 112.** Account of the average number of men employed on the Dominion Public Works during each month of the year 1913, and of their pay and gratifications, pursuant to Chapter 92, section 6, subsection 2, of the Revised Statutes of Canada. Presented by Hon. Mr. Doherty, February 5, 1914. *Not printed.*
- 113.** Copy of Agreement between the Government of Canada and the Royal Mail Steam Packet Company, for a steamship service between Canada and the British West Indies. Presented by Hon. Mr. Foster, February 9, 1914. *Not printed.*
- 114.** Return to an Order of the House of the 2nd February, 1914, for a return showing what changes have been made in the original scheme for terminals on the Transcontinental Railway at the city of Quebec: the estimated cost of the former; the estimated cost of the said terminals under the present scheme. Presented February 19, 1914. *Mr. Graham.* *Not printed.*

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- 114^a.** Return to an Address to His Royal Highness the Governor General of the 23rd February, 1914, for a copy of all correspondence between the National Transcontinental Railway Commissioner and the Minister of Railways, and between the National Transcontinental Railway Commissioner and the Canadian Pacific Railway regarding the Joint Terminals at Quebec; also a copy of the Order in Council regarding joint terminals at Quebec, and of the final agreement regarding same. Presented March 16, 1914.—*Mr. Graham.* *Not printed.*
- 114^b.** Return to an Order of the House of the 16th March, 1914, for a copy of all contracts by the Department of Railways or the Transcontinental Railway Commission with the Canadian Pacific Railway Company with regard to the establishment of a joint station at the Palais, city of Quebec, and of all correspondence with regard to the same. Presented March 20, 1914.—*Sir Wilfrid Laurier.* *Not printed.*
- 115.** Return to an Order of the House of the 9th December, 1912, for a return showing the number of commissioners appointed by the Government since October 10, 1911, to hold investigations, giving their names, the amount paid to each commissioner up to November 21, 1912, the number of the said commissioners still under pay, with their names. Presented February 10, 1914.—*Mr. Murphy.* *Not printed.*
- 116.** Return to an Order of the House of the 31st March, 1913, for a copy of all papers, documents, correspondence, &c., relating to requests for the temporary suspension of the application of the dumping clause of the Customs Tariff Act in reference to wire rods or any other products or articles, made to Department of Customs, or the Department of Finance, since November 1, 1911. Presented February 10, 1914.—*Mr. Maclean (Halifax).* *Not printed.*
- 117.** Return to an Order of the House of the 20th January, 1913, for a copy of all proposals, offers, agreements, reports, estimates, letters, telegrams and of all other communications or documents in the possession of the Department of Railways and Canals, or of the Prime Minister of Canada, or of any other department of the Government, filed with said department or any of them, since the first day of January, 1910, relating to or in any way appertaining to the question or proposal of acquiring any or all, or any one of the lines of railways connecting with the Intercolonial Railway along its line, and serving as a feeder or feeders of said railway, either by lease, purchase or otherwise, also of all proposals, offers, requests, applications, petitions, memorials, or other documents, and of all letters, telegrams and other communications and correspondence, relating to or in any manner appertaining to the acquisition by any Railway company of running rights, so called, or the securing of a leasehold or other interest involving the rights by any Railway company to operate its trains over the rails of the Intercolonial Railway, together with a copy of all answers, letters, telegrams, correspondence and reports relating thereto, on the files of the Department of Railways and Canals, or of the Prime Minister, or of any Department of the Government. Presented February 10 1914.—*Mr. Emmerson.* *Not printed.*
- 117^a.** Return to an Order of the House of the 2nd February, 1914, for a copy of all correspondence, memorials, petitions, engineers' reports and other documents exchanged by or on behalf of the proprietors of the Quebec Oriental Railway and the Atlantic, Quebec and Western Railway, and the Department of Railways and Canals, since last session, with the view of the acquisition by the Government of these roads as branch lines or feeders of the Intercolonial Railway. Presented March 6, 1914.—*Mr. Marcil (Bonaventure).* *Not printed.*
- 117^b.** Return to an Order of the House of the 9th February, 1914, for a copy of all letters, telegrams, petitions, reports, correspondence and other documents on file in any Department of the Government, or in the possession of any member of the Government, relating to, or in any manner connected with, the proposal to have a spur line or siding to connect the new public wharf at Sackville, N.B., with the Intercolonial Railway at that place, and of all letters, telegrams and other correspondence passed between any person or persons and any member of the Government. Presented March 11, 1914.—*Mr. Emmerson.* *Not printed.*
- 117^c.** Return to an Order of the House of December 9, 1912, for a copy of the report made by Mr. Tessier to the Department of Railways and Canals on a proposed line of railway from Orangedale to Cheticamp in the County of Inverness, N.S.; and also all petitions, memorials and correspondence referring to the proposed line of railway. Presented March 17, 1914.—*Mr. Chisholm (Antigonish).* *Not printed.*
- 117^d.** Return to an Order of the House of the 23rd March, 1914, for a copy of all petitions, correspondence, engineers' reports of surveys and of all other reports on file, referring to a proposed diversion of the Intercolonial Railway from, at or near Linwood Station, through the districts of Linwood, Cape Jack and to village of Harbour au Bouché; and more particularly of the petitions and reports relating to such diversion filed in or about the years 1887 and 1891. Presented April 7, 1914.—*Mr. Chisholm (Antigonish).* *Not printed.*

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- 123b.** Return to an Order of the House of the 18th February, 1914, for a copy of the contract with Mr. Joseph Gosselin for the locomotive and car shops at St. Malo, and of all telegrams, letters and correspondence between the Department and Mr. W. J. Press, mechanical engineer, or the chief engineer, with regard to change of the price of 85 cents per cubic yard for common excavation to the price of \$2.30 per cubic yard for frozen earth. Presented March 11, 1914.—*Mr. Graham*.....*Not printed.*
- 123c.** Return to an Address to His Royal Highness the Governor General of the 16th February, 1914, for a copy of all papers in any way relating to the tender, original contract, and amended contract of Mr. Joseph Gosselin for the locomotive and car shops at St. Malo, Quebec, together with a copy of the advertisements for tenders, the specifications, the contract, the amended contract, reports of engineers, recommendations to Council, Orders in Council, letters, telegrams, minutes or reports of interviews, and of all other documents referring in any way to the said contract or the amendment thereof. Presented March 11, 1914.—*Mr. Graham*.....*Not printed.*
- 123d.** Return to an Address to His Royal Highness the Governor General of the 23rd February, 1914, for a copy of all correspondence in connection with the appointment of Messrs. Lynch-Staunton and Gutelius as commissioners to investigate the cost of construction of the Eastern division of the National Transcontinental Railway, and also of the Order in Council appointing them. Presented March 12, 1914.—*Mr. Graham*.....*Not printed.*
- 123e.** Return to an Order of the House of the 23rd February, 1914, for a copy of the report of Geo. S. Hodgins of New York, regarding the Transcona shops of the Transcontinental Railway, dated June 10, 1912. Presented March 19, 1914.—*Mr. Graham*.....*Not printed.*
- 123f.** Return to an Order of the House of the 23rd March, 1914, for a copy of all plans and profiles designed by the engineers, in connection with the intended construction of the Transcontinental Railway from a point called Ste. Claire, County of Dorchester, between the twentieth and thirtieth miles, east of the Quebec Bridge, going through the parishes of St. Malachie, Standon, Cranbourne, Ste. Germaine and Ste. Justine, passing through the townships of Panet, Rolette and Valois, towards Ste. Perpetue, on the 105th mile east of the Quebec bridge, and of all the information and reports on the nature of land, timber and minerals of the places through which the engineers have been, showing also how much the railway would have cost per mile had it been built in that part of the country. Presented April 7, 1914.—*Mr. Seviigny*.....*Not printed.*
- 123g.** Return to an Order of the House of the 23rd March, 1914, for a copy of all correspondence, messages, petitions, and other documents in connection with the choice of a site intended for the construction of a station at the village of St. Eleuthere, on the National Transcontinental Railway. Presented April 15, 1914.—*Mr. Lapointe (Kamouraska)*.....*Not printed.*
- 123h.** Return to an Order of the House for a return showing,—
1. What kind of coaling plants have been provided on the National Transcontinental Railway?
 2. How many have been provided?
 3. Where they have been constructed?
 4. If any tenders were called for them?
 5. The name and address of the lowest tenderer.
 6. From whom they were obtained and at what price? Presented April 15, 1914.—*Mr. Macdonald*.....*Not printed.*
- 124.** Return to an Address to His Royal Highness the Governor General, of the 2nd February, 1911, for a copy of all decisions of the Board of Railway Commissioners made on or after the 10th of October, 1911, on which appeals have been taken to the Governor in Council, and of all decisions given by the Governor in Council on such appeals. Presented February 13, 1914.—*Mr. Seuciar*.....*Not printed.*
- 125.** Return to an Order of the House of the 2nd February, 1914, for a copy of all rules and regulations made and passed by the Board, with the approval of the Minister, under the provisions of the Intercolonial and Prince Edward Island Railways Employees' Provident Fund Act, pursuant to section eight of said Act. Presented February 13, 1914.—*Mr. Emmerson*.....*Not printed.*
- 125a.** Return to an Order of the House of the 2nd February, 1914, for a return showing in detail the transactions and proceedings of the so-called Provident Fund Board from the 1st day of January, A.D., 1912, to date, with the names of applicants and their addresses and the nature of their employment, for retirement under the provisions of The Intercolonial and Prince Edward Island Railways Employees' Provident Fund Act, and a statement of the names so retired during that period, showing the amount of their respective retiring allowances, their respective terms of service, their respective ages, and the total of the fixed yearly charges upon the said fund made thereby; together

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with a copy of all correspondence, letters, documents and other communications relating to such applications and retirements on file in the Railway Department, either at Montreal or at Ottawa, and of all correspondence, letters, petitions or other communications addressed to and received by the Minister of Railways and Canals, the Department, or any official thereof, or any member of the Government from any member of Parliament, or other person, charged with the responsibility of directing Government or railway patronage, or from any person or persons, club or association, assisting or advising or direct with respect to any such patronage, and of all replies made to any such letters, petitions or other communications. Presented March 3, 1914. *Mr. Emmerson*..... *Not printed.*

126. Return to an Order of the House of the 2nd February, 1914, for a return showing the amounts of receipts and expenditures of the Intercolonial Railway during the months of April, May and June of 1913, respectively, giving separately the revenue from passenger fares, freight traffic, mail and express, and mail and express revenue, respectively, with the total thereof during that period; also the same information respecting the corresponding months of 1912, with the total thereof for that period. Also a statement showing the working expenses or expenditures during the months of April, May and June of 1913, respectively, giving separately the working expenses or expenditure on maintenance of way and structures, maintenance of equipment, mail expenses, transportation expenses and general expenses; with the total thereof during that period, and also the same information respecting the corresponding months of 1912, with the total thereof for the same period, also a statement showing the cost of transporting freight per ton mile during the period named in the years 1912 and 1913. Presented February 13, 1914. *Mr. Emmerson*..... *Not printed.*

126a. Return to an Order of the House of the 19th March, 1914, for a return showing the total revenue of the Intercolonial Railway during the calendar year 1912-1913, and the revenue from Campbellton and all stations east of Campbellton and from the west to report as far as H. C. Fox, on the main line, including the portion east of Campbellton, Prince Edward Island Railway excluded. Presented March 14, 1914. *Mr. Boyer*..... *Not printed.*

126b. Return to an Order of the House of the 2nd February, 1914, for a return showing the total earnings of the Intercolonial Railway on December 31, 1913, and the gross passenger traffic for the calendar years 1910, 1911, 1912 and 1913 respectively, and the monthly passenger traffic earnings for each of the said years, the total expenses of passenger fares connected with the said passenger traffic for said years, and for the said years respectively, together with a statement showing the monthly expenses of mail, express or expend fares connected with said passenger traffic for each of the months during the said years; and showing, in addition, the loss and surplus for each of the said years and the months thereof respectively, as compared with the passenger traffic for said years on 31 between St. John and H. C. Fox, and for the months of December, 1913, and January, 1914, separately, and also a statement showing the gross passenger earnings for December, 1912, and January, 1914, respectively, and the gross expenditures with the passenger traffic for the said months respectively; together with a copy of all reports, returns, letters and correspondence relating to the earnings, expenditures or losses or surpluses on said dates, in connection with freight or passenger traffic. Presented April 7, 1914. *Mr. Emmerson*..... *Not printed.*

127. Return to an Order of the House of the 2nd February, 1914, for a return showing the names of the employees of all kinds on the Soulanges Canal in the section extending from the foot of the canal to the first bridge, with the functions of each of them, the salary thereto attached and the date of their hiring during the season of navigation. Presented February 13, 1914. *Mr. Boyer*..... *Not printed.*

128. Return to an Order of the House of the 2nd February, 1914, for a return showing:—
1. The names of all persons from whom land or property has been expropriated for right of way and station purposes in connection with the Dartmouth to Dean Settlement Branch of the Intercolonial Railway of Canada.
2. The quantity of land or property so expropriated.
3. The amount paid or offered to such person or persons for such land or property, in cases where payment or an offer has been made. Presented February 13, 1914. — *Mr. Macdonald (Hadjary)*..... *Not printed.*

129. Copy of the International Convention for the safety of human life at sea. Presented by Hon. Mr. Hazen, February 16, 1914..... *Printed for distribution and sessional papers.*

129a. Return to an Address to His Royal Highness the Governor General of the 2nd February, 1914, for a copy of all correspondence with the Imperial authorities, or any commercial bodies, on the subject of Safety of Life at Sea, and on the Order in Council appointing representatives of Canada to the International Conference on Safety of Life at Sea. Presented February 20, 1914.—*Sir Wilfrid Laurier*..... *Not printed.*

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- 130.** Return to an Order of the House of the 9th February, 1914, for a copy of all accounts, bills, receipts and vouchers in connection with the services of N. W. White, during 1912 and 1913, as commissioner to inquire into Indian lands in the Province of British Columbia. Presented February 17, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*
- 131.** Return to an Order of the House of the 2nd February, 1914, for a copy of all documents whatsoever relating to the investigation of a claim of Jean Ross or Joseph Ross, of Anjou, County of Rimouski, Province of Quebec, against the Intercolonial Railway, following an accident to a horse, which occurred on the 10th of December, 1906. Presented February 17, 1914.—*Mr. Boulay*.....*Not printed.*
- 132.** Copy of the Order in Council appointing a commission to investigate the cost of living. Presented February 17, 1914.—*Sir Wilfrid Laurier*.....*Not printed.*
- 133.** Statement of the population of Canada and its Provinces and Territories in the years 1871, 1881, 1891, 1901 and 1911, according to the census returns. Presented by Hon. Mr. Borden, February 17, 1914.....*Not printed.*
- 134.** Return to an Order of the House of the 9th February, 1914, for a copy of all protests, if any, by the Grand Trunk Pacific Railway Company, against changes in grades of the National Transcontinental Railway from Winnipeg eastward, and terminal facilities at Quebec; of all subsequent approvals of such changes, if any, by the Grand Trunk Pacific Railway Company, and of all correspondence on the above subject. Presented February 18, 1914.—*Sir W. Laurier*.....*Not printed.*
- 135.** Copy of Second Interim Report of the Royal Commission on the natural resources, trade and legislation of certain portions of His Majesty's Dominions, together with the Minutes of Evidence taken in Australia and New Zealand in 1913, in connection therewith. Presented by Hon. Mr. Foster, February 18, 1914.....*Not printed.*
- 136.** Return to an Order of the Senate dated 27th January, 1914, for a copy of the Annual Report made in January, 1913, by the Central Railway Company to the Railway Department.—(*Senate*)*Not printed.*
- 137.** Return to an Order of the Senate dated 27th January, 1914, for a copy of the Annual Report made by the Salisbury and Albert Railway Company to the Railway Department.—(*Senate*)*Not printed.*
- 138.** Return to an Order of the House of the 9th February, 1914, for a copy of all correspondence and documents in reference to the matter submitted to Sir William Whyte by the Government, the Transcontinental Commission or the commission appointed to investigate the construction of the National Transcontinental Railway, between the Government or any member or official thereof, and any official of the Grand Trunk Pacific Railway Company; and also of all correspondence between any member or official of either the above named commissions and the Justice Department, concerning the said matter. Presented February 19, 1914.—*Mr. Graham*.....*Not printed.*
- 139.** Return to an Order of the House of the 16th February, 1914, for a return showing the names, salaries and grades of the private secretaries of the members of the Liberal Government on October, 1911; the names of the private secretaries employed from time to time by the members of the present Government, and the salary and grade of each. Presented February 19, 1914.—*Mr. Murphy*.....*Not printed.*
- 140.** Return to an Order of the House of the 9th February, 1914, for a return showing how many woollen industries are operated in the country; where situated, in which province, and in what city, town or village; the number of hands employed in each, and the output for each during 1913. Presented February 19, 1914.—*Mr. Verville*.
Not printed.
- 141.** Return to an Order of the House of the 2nd February, 1914, for a return showing the number, location, and mileage of rural mail routes established in Bonaventure County from October, 1911, to date, if any; together with a copy of all applications, memorials, reports and correspondence generally on this matter. Presented February 23, 1914.—*Mr. March (Bonaventure)**Not printed.*
- 141a.** Return to an Order of the House of the 2nd February, 1914, for a return showing a tabulated statement of the number of rural mail delivery routes opened since 1911, including the number of boxes used; also the new mail delivery contracts necessitated by the establishment of said routes in each county, not already moved for. Presented February 23, 1914.—*Mr. Lemieux*.....*Not printed.*
- 141b.** Return to an Order of the House of the 19th February, 1914, for a return showing the number of rural mail delivery routes which have been established in Nova Scotia, and their names; and if any of the routes are provided with a daily service. Presented March 2, 1914.—*Mr. Sinclair*.....*Not printed.*

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- 141c.** Return to an Order of the House of the 18th February, 1914, for a copy of all documents, letters, telegrams, &c., exchanged between the Hon. the Post Office Department, in connection with the establishing of a rural mail service in the Parish of Ste. Marguerite de Blainville, County of St. Johns and Herbyville and other documents, letters and telegrams, &c., relating to the contracts for the carrying of rural mail in said parish. Presented April 29, 1914.—*Mr. Brien* *Not printed.*
- 141d.** Return to an Order of the House of the 24th April, 1914, for a copy of the following:—
 1. Whether the rural post delivery service has been started in the County of Quebec? If so, when and in what parishes of said county?
 2. Whether public tenders have been received in respect of such service? If so, when, how many were received and from whom, the amount of each tender, and what tender was accepted?
 3. The price of the accepted tender, the name of the tenderer, the condition or conditions of payment, and the terms of the contract. Presented April 24, 1914.—*Mr. Lachance* *Not printed.*
- 141e.** Return to an Order of the House of the 25th April, 1914, for a copy of all letters, petitions and documents relating to the delivery of mail by express routes from New Glasgow through Mount William, Granton and Victoria, County of Pictou. Presented May 8, 1914.—*Mr. Macdonald* *Not printed.*
- 141f.** Return to an Order of the House of the 25th April, 1914, for a copy of all telegrams, letters, petitions, reports, &c., in connection with the proposed establishment of the rural mail service in the parish of St. Thomas, P.E.I., presented May 16, 1914.—*Mr. Macdonald* *Not printed.*
- 141(g).** Return to an Order of the House of the 17th February, 1914, for a copy of all petitions, letters, telegrams and other documents relating to the establishment of rural mail delivery routes in the County of Pictou since July 1st, 1912, together with the number of said routes, the names of the tenderers, the amount of each tender, a copy of the corrected form of a return in respect of each tender, and the conditions and the cost of each route to be chosen, submitted to the Department of said routes. Presented June 12, 1914.—*Mr. Macdonald* *Not printed.*
- 142.** Return to an Order of the House of the 2nd February, 1914, for a copy of all reports which new post offices have been established in the County of Pictou since 1900, together with the names of the offices in charge of each of them, the salaries of the postmen employed by those offices, including the salary and expenses of the postmen, the names and addresses of the holders of those offices, the names of the persons who have been interested ratepayers, and also, by whom, the names of the petitioners and other matters that have passed through each of the offices since they have been established. Presented February 2, 1914.—*Mr. Lachance* *Not printed.*
- 142a.** Return to an Order of the House of the 25th March, 1914, for a copy of all documents, papers, petitions, correspondence, reports, &c., in connection with the proposed establishment of a rural mail service in the Parish of Ste. Anne, County of P.E.I. Presented April 22, 1914.—*Mr. Lachance* *Not printed.*
- 143.** Return to an Order of the House of the 25th February, 1914, for a return showing the names and addresses, with rank or position, of all persons who are employed by the Minister of Marine and Fisheries in the Dominion of Newfoundland since January 1, 1913, and whose expenses were paid wholly or in part by the Department, or who were paid salary or allowances from the said Department, with the names of the persons. Presented February 25, 1914.—*Mr. O'Brien* *Not printed.*
- 144.** Return to an Order of the House of the 14th February, 1914, for a copy of all correspondence, telegrams and other papers from the Hon. the Post Office Department, N.E., in connection with the delivery of mail by express routes from P.E.I. to the sailor on D.G.S. *Canada*. Presented February 2, 1914.—*Mr. Macdonald* *Not printed.*
- 145.** Return to an Order of the House of the 2nd February, 1914, for a copy of all tenders received for the construction of a seasonal pier at New Glasgow, Pictou County, N.E., and of the contract awarded. Presented February 2, 1914.—*Mr. Macdonald* *Not printed.*
- 146.** Return to an Order of the House of the 25th April, 1914, for a copy of all telegrams, telegrams, petitions, &c., relating to the resignation of Mr. M. O'Brien as member for the Department of Marine and Fisheries from the County of St. John's, N.S., and to the appointment of Mr. E. P. Vanasse to this office. Presented February 13, 1914.—*Mr. Curdin* *Not printed.*

CONTENTS OF VOLUME 28—Continued.

- 147.** Return to an Order of the House of the 9th February, 1914, for a copy of all correspondence, letters, telegrams, and other documents relating to industrial disputes during the year 1913, between the operators and employees of any of the companies operating coal mines on Vancouver Island, and disturbances arising out of the same; and of any correspondence, either before or since the year 1913, with respect to any of the said disputes. And in particular of all correspondence, letters, telegrams, and other documents to or from the Prime Minister, the Honourable the Minister of Labour or any of the officers of the Department of Labour, respecting attempts at conciliation in connection with these disputes, and to or from the Honourable the Minister of Militia, or any officers of the Department of Militia and the Honourable the Minister of Justice, or any officers of the Department of Justice, respecting the calling out and services of the militia in connection with said disputes; and a statement of the arrests made and of convictions, if any, for infringement of the laws. Also a copy of the evidence taken and reports of investigations made by the Honourable the Minister of Labour, Mr. Samuel Price, Commissioner appointed by the Department of Labour, and of the Deputy Minister of Labour; together with a detailed statement of the expenses of all such investigations and expenses otherwise incurred by any of the Departments of the Government in consequence of said disputes or difficulties arising out of same. Presented February 23, 1914.—*Sir W. Laurier*.....*Not printed.*
- 147a.** Return to an Address to His Royal Highness the Governor General of the 2nd February, 1914, for a copy of all correspondence, letters, telegrams and reports that have been exchanged between the Government and the strikers and operators of coal mines in British Columbia since the beginning of the strike until the present; also a copy of all Orders in Council in connection with said strike. Presented February 23, 1914.—*Mr. Verville**Not printed.*
- 147b.** Supplementary Return to an Order of the House of the 9th February, 1914, for a copy of all correspondence, letters, telegrams, and other documents relating to industrial disputes during the year 1913, between the operators and employees of any of the companies operating coal mines on Vancouver Island, and disturbances arising out of the same; and of any correspondence, either before or since the year 1913 with respect to any of the said disputes. And in particular of all correspondence, letters, telegrams, and other documents to or from the Prime Minister, the Honourable the Minister of Labour or any of the officers of the Department of Labour, respecting attempts at conciliation in connection with these disputes, and to or from the Honourable the Minister of Militia, or any officers of the Department of Militia and the Honourable the Minister of Justice, or any officers of the Department of Justice, respecting the calling out and services of the militia in connection with said disputes; and a statement of the arrests made and of convictions if any, for infringement of the laws. Also a copy of the evidence taken and reports of investigations made by the Honourable the Minister of Labour, Mr. Samuel Price, Commissioner appointed by the Department of Labour, and of the Deputy Minister of Labour; together with a detailed statement of the expenses of all such investigations and expenses otherwise incurred by any of the Departments of the Government in consequence of said disputes or difficulties arising out of same. Presented February 24, 1914.—*Sir Wilfrid Laurier*.....*Not printed.*
- 148.** Regulations, approved by Order in Council, dated the 19th day of January, 1914, for the disposal of petroleum and natural gas rights, the property of the Crown in Manitoba, Saskatchewan, Alberta, the Northwest Territories, the Yukon Territory, the Railway Belt in the Province of British Columbia, and within the tract containing three and one-half (3½) million acres of land acquired by the Dominion Government from the Province of British Columbia, and referred to in subsection (b) of section 3 of the Dominion Lands Act. Presented by Hon. Mr. Roche, February 23, 1914. *Not printed.*
- 149.** Regulations in regard to grazing leases of vacant Dominion lands, &c. Presented by Hon. Mr. Roche, February 23, 1914.....*Not printed.*
- 150.** Return to an Order of the House of the 9th February, 1914, for a return showing the amounts in detail paid to Ward Fisher, of Shelburne, N.S., fishery inspector, for the years 1912 and 1913 for salary, office expenses, travelling expenses, and all other expenses. Presented February 24, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*
- 151.** Return to an Order of the House of the 2nd February, 1914, for a copy of the report of operations at the fishery hatchery at Port Daniel West, for the year 1913. Presented February 24, 1914.—*Mr. Marcell (Bonaventure)**Not printed.*
- 152.** Return to an Order of the House of the 18th February, 1914, for a copy of all correspondence, investigations or other documents respecting the loss of a horse killed on the Intercolonial, on the 10th of September last, the property of Johnny Roy, of Amqui. Presented February 24, 1914.—*Mr. Boulay*.....*Not printed.*

CONTENTS OF VOLUME 28—Continued.

153. Return to an Order of the House of the 16th February, 1914, for a return showing the increase in freight rates on live-stock, including horses, earned over the International Railway, by the tariff effective May 1, 1913, as compared with the tariff effective April 15, 1909, for the following distances, respectively:—

Over	5 and not over	10 miles.
" 10	" "	15 "
" 15	" "	20 "
" 20	" "	25 "
" 25	" "	30 "
" 30	" "	40 "
" 40	" "	50 "
" 50	" "	60 "
" 60	" "	70 "
" 70	" "	80 "
" 80	" "	90 "
" 90	" "	100 "
" 100	" "	110 "
" 110	" "	120 "
" 120	" "	130 "
" 130	" "	140 "
" 140	" "	150 "
" 150	" "	160 "

Presented February 24, 1914.—*Mr. Kitchin* *Not printed.*

154. Return to an Order of the House of the 9th February, 1914, for a copy of all correspondence, letters, telegrams, and other documents relating to the report and recommendations of the Board appointed under the Charles Act of 1904, to investigate the methods adopted by the United Shoe Machinery Company. Presented February 24, 1914. *Sir Wilfrid Laurier* *Not printed.*

155. Return to an Address to His Royal Highness the Governor General of the 9th February, 1914, for a copy of an analysis of agreement between the Canadian Pacific Railway, 1914, and the Canadian Pacific Railway Company, covering the transportation of freight and passengers between Halifax and St. John's, and the effect of the agreement on connection with the Canadian Pacific and Atlantic Steamship Company, including, among other things, making Halifax the terminal port, also of all agreements, orders, regulations, instructions, memoranda, regulations or orders of the Department of the Navy, and of any other of any other or others of the International Railway, or of any other or others of the Government, interviews with the Prime Minister and other members of the Government, and representations to the Prime Minister, or other members of the Government, in any manner relating to the said agreement or agreements, and of all telegrams and letters received by the Government, or any member thereof, or sent by them, either in reply or otherwise, also of all letters, telegrams, representations or other documents relating to the said agreement or agreements, and of all those received by E. P. Gaultier, the General Manager of the International Railway, from the Canadian Pacific Railway, or from any corporation, person or body, or sent by him, in reply thereto or otherwise, to the said Canadian Pacific Railway or to any other corporation, body or person. Presented February 24, 1914. *Mr. Emerson* *Not printed.*

156. Return to an Address to His Royal Highness the Governor General of the 9th February, 1914, for a copy of all orders in Council since the 1st of June last in any way altering the rates of duties existing under the Customs Act. Presented February 24, 1914. *Sir Wilfrid Laurier* *Not printed.*

157. Correspondence, statements, &c., in respect to certain proposed advances to the Harbour Commissioners of Montreal, for expenditure during the years 1913, 1915, 1916 and 1917. Presented by Hon. Mr. Hazen, February 27, 1914. *Not printed.*

158. Memorandum of proposed harbour improvements to be made by the Harbour Commissioners of Quebec during 1914, out of certain proposed advances to be made to the said commission. Presented by Hon. Mr. Hazen, February 27, 1914. *Not printed.*

159. Return to an Order of the House of the 2nd February, 1914, for a copy of all papers, correspondence, telegrams, &c., between the Department of Trade and Commerce and any person or persons, companies or corporations, in the years 1912 and 1913, respecting a steamship service between St. John, N.B., and Bear River, N.S., and intermediate points, and the matter of the payment of a subsidy therefor. Presented March 2, 1914. —*Mr. Macdonald (Halifax)* *Not printed.*

160. Return to an Order of the House of the 2nd February, 1914, for a copy of the reports made by the proprietors of the steamer *Canada*, on which the subsidy was paid to them for the season of 1913, for the service between Chatham, N.B., and Gaspe, Que.; together with a copy of all complaints regarding the said service and of the correspondence, reports and documents in the possession of the Department of Trade and Commerce in that connection in the said year. Presented March 2, 1914. *Mr. Macdonald (Bonaville)* *Not printed.*

CONTENTS OF VOLUME 28—Continued.

- 161.** Return to an Order of the House of the 4th February, 1914, for a return showing what sum or sums of money, if any, have been expended by the Government since the 21st of September, 1911, in the County of Wright, Quebec, and how such money has been expended. Presented March 2, 1914.—*Mr. Devlin*.....*Not printed.*
- 162.** Return to an Order of the House of the 26th February, 1914, for a return showing:—
 1. How many temporary clerks were employed in the Library of Parliament during the Sessions of 1911-1912 and 1912-1913, their names and the salary paid to each for such service, and the total so paid?
 2. How many temporary clerks are at present so employed, their names and salaries respectively?
 3. If any temporary clerks were employed in said library, during the Session of 1910-1911; if so, how many?
 4. What was the then number of permanent clerks in the library, and the present number of temporary clerks employed in said library?
 5. Why temporary clerks are employed in said library in positions superior to and at higher pay than that paid to permanent clerks? Presented March 3, 1914.—*Mr. Turgeon**Not printed.*
- 163.** Return to an Address to His Royal Highness the Governor General of the 2nd February, 1914, for a copy of all correspondence, telegrams, memoranda, Orders in Council, instructions to officers, regulations and other papers and documents relating to a change in the regulations governing the fishing of salmon in the St. John River, above tidal water. Presented March 3, 1914.—*Mr. Sinclair*.....*Not printed.*
- 164.** Return to an Order of the House of the 2nd February, 1914, for a copy of all letters, telegrams and correspondence in any way relating to the appointment of men in any way connected with the salmon fishing pond at Margaree during the year 1913. Presented March 3, 1914.—*Mr. Chisholm (Inverness)**Not printed.*
- 165.** Return to an Order of the House of the 2nd February, 1914, for a copy of all tenders received in 1912 for the construction of a breakwater at Green Point, Gloucester County, N.B., and of all correspondence, letters and telegrams showing why the contract was not awarded to lowest tenderer. Presented March 3, 1914.—*Mr. Turgeon*.....*Not printed.*
- 166.** Return to an Order of the House of the 2nd February, 1914, for a copy of all correspondence, letters, telegrams, &c., touching in any way the work done on Lingan Beach, South Cape Breton, under Superintendent H. D. McLean. Presented March 3, 1914.—*Mr. Carroll**Not printed.*
- 167.** Return to an Order of the House of the 2nd February, 1914, for a copy of all papers, advertisements, tenders, bids, contracts, reports, vouchers, accounts, receipts, correspondence, &c., in connection with a wharf recently constructed at Gold River, Lunenburg County, N.S. Presented March 3, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*
- 168.** Return to an Address to His Royal Highness the Governor General, of the 9th February, 1914, for a copy of all documents, Orders in Council, correspondence, telegrams, tenders, accounts, vouchers, part, &c., in connection with the construction of a bridge or work between the mainland and an island, known as Boutillier's island, at South West Cove, Lunenburg County, N.S. Presented March 3, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*
- 169.** Return to an Order of the House of the 9th February, 1914, for a copy of all advertisements, tenders, contracts, documents, letters and correspondence relating to the supply of coal for the Government public buildings at Lunenburg, N.S. Presented March 3, 1914.—*Mr. Macdonald**Not printed.*
- 170.** Return to an Order of the House of the 2nd February, 1914, for a comparative statement of the quantity of cubic yards of dredging done by the *Restigouche*, or dredge No. 3, on the outside bar of Bathurst Harbour, during the seasons of 1910, 1911, 1912 and 1913. Presented March 3, 1914.—*Mr. Turgeon*.....*Not printed.*
- 170a.** Return to an Order of the House of the 2nd February, 1914, for a copy of all tenders received for the dredging in Bathurst Harbour, and of the contract awarded. Presented March 3, 1914.—*Mr. Turgeon*.....*Not printed.*
- 170b.** Return to an Order of the House of the 2nd February, 1914, for a copy of all correspondence, letters and telegrams relating to the deposit of sand and mud dumped into the southwestern channel by the contractors of dredging in Bathurst Harbour. Presented March 3, 1914.—*Mr. Turgeon*.....*Not printed.*
- 171.** Return to an Address to His Royal Highness the Governor General of the 9th February, 1914, for a copy of all correspondence, telegrams, petitions and memorials received by the Right Honourable R. L. Borden, Premier of Canada, or the Minister of Railways and Canals, from J. A. Gillies, Esq., Sydney, N.S., or from any resident of the County of Richmond, N.S., relative to the purchasing of the Cape Breton Railway by the Government and the building of a line of railway from St. Peters to Sydney and Louisburg, and of replies thereto. Presented March 3, 1914.—*Mr. Kyte*.....*Not printed.*

CONTENTS OF VOLUME 28—Continued.

- 172.** Return to an Order of the House of the 2nd February, 1914, for a return showing:—
 1. The names of all proprietors from whom land and property have been expropriated for the purpose of the Halifax Ocean Terminals between Three Mile House and the proposed site of the railway and shipping terminals?
 2. The price or amount of damages paid therefor, or the amount offered and accepted in the case of each proprietor?
 3. The amount offered or tendered each proprietor for damages and which has not been accepted.
 4. The quantity of land and nature of property so expropriated from each proprietor. Presented March 3, 1914.—*Mr. Maclean (Halifax)*.....Not printed.
- 172a.** Return to an Order of the House of the 2nd February, 1914, for a copy of all advertisements, tenders, papers, documents, letters and correspondence relating to the construction of the railway from Three Mile House at Bedford Basin to Halifax Harbour, and also to the piers or wharfs and sea walls in connection with the proposed Halifax Ocean Terminals. Presented March 13, 1914.—*Mr. Maclean (Halifax)*.....Not printed.
- 173.** Return to an Order of the House of the 2nd February, 1914, for a copy of all agreements, correspondence, papers and documents referring to any arrangement made between the Intercolonial Railway of Canada and the Canadian Pacific Railway in the year 1913, relating to the hauling of Canadian Pacific Railway freight and passenger trains between St. John and Halifax, connected with any transit of the steamship lines at Halifax, during the winter season of 1913-14. Presented March 4, 1914.—*Mr. Maclean (Halifax)*.....Not printed.
- 174.** Return to an Order of the House of the 29th January, 1914, for a copy of all recommendations, correspondence, letters, telegrams and reports now on file in the Department of Justice, relating to the vacancy in the office of deputy warden of the Dorchester penitentiary, and the appointment of a successor to Mr. A. R. Dross, who was promoted from the position of deputy warden of Dorchester penitentiary to that of warden. Presented March 4, 1914.—*Mr. Emmons*.....Not printed.
- 175.** Correspondence between the City of Ottawa and the Government, on the subject of a pure water supply for the city and Government buildings. Presented by Hon. Mr. Borden, March 4, 1914.....Not printed.
- 176.** Return to an Order of the House of the 2nd February, 1914, for a copy of all letters, correspondence, telegrams and all other documents between the Department of Railways and Canals and Archer, McDonald, E. McGehee, C. A. Howard and A. Marceau, local engineer, St. Amour, Superintendent of the Canal of Saginay, L. A. Savoy, and others, respecting the tearing down of several houses and buildings erected on the Government grounds at Pointe Cascade, the property of the said L. A. Savoy. Presented March 5, 1914.—*Mr. Boyer*.....Not printed.
- 177.** Return to an Order of the House of the 23rd February, 1914, for a copy of all agreements between the Trans-continental Railway Commission and the Canadian Northern Railway for the use of the line of the said company by the trains of the Trans-continental Railway from Cap Rouge to the shops at St. Malo. Presented March 5, 1914.—*Sir Wilfrid Laurier*.....Not printed.
- 178.** Return to an Order of the House of the 23rd February, 1914, for a copy of all correspondence between the Minister of Railways or the Trans-continental Railway Commission and the Quebec Harbour Commission, with regard to the construction by the said Harbour Commission of a line of railway to connect the said Trans-continental Railway from Champlain Market with the proposed Union Station at the Palais, and of all contracts by the said Harbour Commission towards that end. Presented March 5, 1914.—*Sir Wilfrid Laurier*.....Not printed.
- 179.** Return to an Order of the House of the 9th February, 1914, for a copy of all advertisements, tenders, contracts and correspondence in connection with the proposed New London Branch of the Prince Edward Island Railway. Presented March 5, 1914.—*Mr. Graham*.....Not printed.
- 180.** Return to an Order of the House of the 1th February, 1914, for a return showing the total amount of available cash on deposit to the credit of the Government of Canada on the last day of each month between April 1, 1913, and December 31, 1913. Presented March 5, 1914.—*Mr. Maclean (Halifax)*.....Not printed.
- 181.** Return to an Order of the House of the 1th February, 1914, for a return showing the following particulars respectively, of all loans placed or extended by the Government of Canada, upon the London market during the calendar years 1912 and 1913: Loan, date and copy of prospectus; price in prospectus and price realized; date on which loan matures; rate per cent; total issue; amount realized; charges including discount for immediate payments, etc.; net amount of cash realized; and the annual effective rate of interest per unit. Presented March 5, 1914.—*Mr. Maclean (Halifax)*.....Not printed.

CONTENTS OF VOLUME 28—Continued.

- 182.** Return to an Order of the House of the 9th February, 1914, for a return showing the number of farm labourers and public servants respectively, placed by the Government employment agents during the years 1912 and 1913; also the counties where placed and amount of bonus paid. Presented March 6, 1914.—*Mr. Sutherland*. *Not printed.*
- 183.** Return to an Order of the House of the 26th February, 1914, for a return showing:—
 1. What chartered banks in Canada have gone into liquidation since Confederation, and at what date in each case;
 2. The loss in each case to the depositors, the note holders and the stockholders respectively;
 3. What relief, if any, was given in each case by the Government to any of the parties suffering loss. Presented March 6, 1914.—*Mr. Neely*. *Not printed.*
- 184.** Return to an Order of the House of the 11th February, 1914, for a return showing the number of binders, reapers, mowers, ploughs, seeders, and cultivators exported from and imported to Canada, with their value respectively, in each of the years 1910, 1911, 1912 and 1913. Presented March 6, 1914.—*Mr. Neely*. *Not printed.*
- 185.** Return to an Order of the House of the 23rd February, 1914, for a return showing the number of cattle exported from Canada to the United States in the months of October, November and December, 1913, and January, 1914, and for the corresponding months in 1912 and 1913. Presented March 6, 1914.—*Mr. Maclean (Halifax)*. *Not printed.*
- 186.** Return to an Order of the House of the 23rd February, 1914, for a return showing the quantities and varieties of fish exported from Canada to the United States in the months of October, November and December, 1913, and January, 1914, and for the corresponding months in 1912 and 1913. Presented March 6, 1914.—*Mr. Maclean (Halifax)*. *Not printed.*
- 187.** Return to an Order of the House of the 26th February, 1914, for a return showing:—
 1. Who were, from incorporation, and who are, the officers and directors of the Grand Trunk Pacific Railway Company;
 2. The amount of capital stock of said company, the amount paid up, and who are the holders of such paid up stock, and the amount held, and still held, by each;
 3. If this company, or a subsidiary company, has contracted to build any portion of the National Transcontinental Railway; and, if so, the total amount of their contracts for such work;
 4. What portion of such contracts or work was sublet, and on such sublet contracts what profit was made by the said company. Presented March 6, 1914.—*Mr. Middlebro.* *Not printed.*
- 188.** Report of the Board of Inquiry appointed to investigate and verify the claims of applicants for Fenian Raid Volunteer Bounty in the Province of Nova Scotia. Presented by Hon. Mr. Hughes, March 9, 1914. *Not printed.*
- 188a.** List of applicants, in Nova Scotia, for the Fenian Raid Volunteer Bounty whose claims have been approved.—List of Fenian Raid Volunteer Bounty applicants, in Nova Scotia, received to December 31, 1913, but not yet considered. Presented by Hon. Mr. Hughes, March 9, 1914. *Not printed.*
- 189.** Return to an Order of the House of the 12th February, 1914, for a return showing what was the local minimum rate of freight on small parcels on the Intercolonial Railway prior to October 16, 1911, and also the present rate on the same. Presented March 9, 1914.—*Mr. Sinclair*. *Not printed.*
- 190.** Return to an Order of the House for a copy of all correspondence, reports, evidence taken, and of all other papers in the possession of the Minister of Railways and Canals, relating to the investigation recently held by Mr. Ferguson, M.L.A., concerning the affairs of the Trent Valley Canal. Presented March 9, 1914.—*Mr. Burnham.* *Report only printed for distribution and sessional papers.*
- 191.** Return to an Order of the House of the 16th February, 1914, for a copy of all papers necessary to convey full information as to the charter, outfit and instructions of the *Karluk* and auxiliary vessels; the names, rank, pay and terms of engagement of their officers and crews; and of all communications received from Mr. V. Steffansson, or any other person who has received such a communication, written after the expedition sailed for the Arctic Ocean. Presented March 10, 1914.—*Mr. Oliver*. *Not printed.*
- 192.** Return to an Order of the House of the 2nd February, 1914, for a return showing the number of towns in the Province of Ontario which have a population larger than the town of Chesley, South Riding of Bruce, which was 1,734, according to the last census; also the number of such towns served by letter boxes on the street. Presented March 10, 1914.—*Mr. McTranicy*. *Not printed.*
- 193.** Return to an Order of the House of the 2nd February, 1914, for a return showing the names of the promoters of the National Drop Forge Company, Limited, and the powers asked by and given to said company by letters patent. Presented March 10, 1914.—*Mr. Lemieux*. *Not printed.*

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- 194.** Return to an Order of the House of the 2nd February, 1914, for a return showing the names of the promoters of the Canadian Contracting Company, and the powers asked by and given to said company by letters patent. Presented March 10, 1914.—*Mr. Lemieux* *Not printed.*
- 195.** Return to an Order of the House of the 4th February, 1914, for a copy of all papers, letters, telegrams, reports, inquiries and documents or other communications had with any of the Departments of the Government, particularly with the Interior, Customs and Marine and Fisheries Departments, relating to Gustavas A. Colpitts, a Canadian citizen returning as a passenger on the Royal Mail Steamship *Empress of Britain*, in September, 1911, who alleged that he was not allowed by officers of the Government to disembark at Rimouski from said steamship. Also a copy of all letters, correspondence or other communications received by any members of the Government, particularly by the Minister of Marine and Fisheries, and by any Department of the Government, from the said Gustavas A. Colpitts, who was at the time a student at Mount Allison University, Sackville, New Brunswick, and of all letters or other communications sent in reply thereto. Presented March 10, 1914.—*Mr. Emmerson* *Not printed.*
- 196.** Number of Chinamen entering Canada during years 1911-12-13, &c.—(*Senate*).
Not printed.
- 197.** Return to an Order of the House of the 23rd February, 1914, for a copy of all letters, papers, plans, correspondence, memoranda and other documents relative to the shortening of distances on the Inter-colonial Railway between Pictou and Port Mulgrave and to the construction of a new bridge at Pictou in connection therewith. Presented March 12, 1914.—*Mr. Macdonald* *Not printed.*
- 198.** Return to an Order of the House of the 23rd February, 1914, for a copy of all letters, telegrams, correspondence, leases and other documents relating to the cutting of lumber by Mr. B. F. Smith from the so-called Tobique Indian reserve, in the Province of New Brunswick, and of all recommendations with reference thereto, made by the Indian agent for that portion of the Province, or any other official of the Department in the said Province; together with a statement of the lumber cut by said Smith from said reserve, with the rates of stumpage charged and amounts paid since January 1, 1912. Presented March 12, 1914.—*Mr. Carvell* *Not printed.*
- 198a.** Return to an Order of the House of the 23rd February, 1914, for a copy of all correspondence, letters, telegrams, memorials, petitions, &c. relating to the sale or transfer of the Indian reserve at Sydney, N.S., and the removal of the Indians therefrom. Presented March 17, 1914.—*Mr. Kutt* *Not printed.*
- 198b.** Return to an Order of the House of the 23rd March, 1914, for a copy of all the instructions issued to C. P. Fullerton and Edward Taylor, or either of them, in reference to the St. Peter's Indian reserve. Presented April 8, 1914.—*Mr. Oliver* *Not printed.*
- 199.** Return to an Order of the House of the 11th February, 1914, for a copy of all correspondence, letters, telegrams, and other documents relative to the purchase for the Inter-colonial Railway of a quantity of coal in the United States, within the past few months. Presented March 12, 1914.—*Mr. Macdonald* *Not printed.*
- 199a.** Return to an Order of the House of the 2nd February, 1914, for a return showing—
1. When the Inter-colonial Railway and the Prince Edward Island Railway last called for tenders for its coal supply, and when the tenders were returnable?
2. The number of tenders received, the names of the tenderers, and their respective prices?
3. The date of the last contract or contracts for coal for the Inter-colonial Railway, and who was the contractor or contractors respectively?
4. The names of the successful tenderers, as the result of the last call for tenders, and their prices respectively?
5. The amount in tons of the contract made with each, and at what prices per ton respectively?
6. If any coal was purchased for the Government system of railways in the United States since March 24, 1912? If so, by whom, from whom, and through whom it was purchased, and at what price, the cost per ton delivered, inclusive of commissions to the railways. Presented March 18, 1914.—*Mr. Emmerson* *Not printed.*
- 199b.** Return to an Order of the House for a return showing whether the Government has purchased any coal, freight or passenger cars during the past six months for the Inter-colonial Railway; if so, from whom and in what quantity; the price paid in each case; if any tenders were called for the same; who the tenderers were and the amount of each tender. Presented April 6, 1914.—*Mr. Macdonald* *Not printed.*
- 200.** Return to an Order of the House of the 4th March, 1914, for a return showing the freight rates on flour, hay, oats, lumber and firewood per 100 lbs. or per ton, between Bathurst, N.B., and Nepisiguit Junction, Red Pine, Bathogve, Bayes Brook, and between Bathurst, Berresford, Petit Rocher and Bellefleur, before the changes made in August, 1913, and the freight rates on the same articles, between the same points, under the new schedule of rates. Presented March 16, 1914.—*Mr. Turpin* *Not printed.*

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- 201.** Return to an Order of the House of the 11th February, 1914, for a copy of all contracts, accounts, bills, memoranda, letters, correspondence, receipts, vouchers, bills of lading, &c., referring to all materials, provisions, supplies and goods of every description purchased and forwarded to Port Nelson during the year 1913, by any Department of the Government of Canada, and agreements for employment of workmen in connection with the construction of the Hudson Bay Railway terminals at Port Nelson. Presented March 18, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*
- 202.** Return to an Order of the House of the 9th February, 1914, for a copy of all papers, letters or other correspondence, instructions, reports, valuations, appointment of valuers, or appraisers, appraisements, abstracts of titles, deeds or other conveyances, in any Department of the Government or in the railway offices at Moncton, relating to, or in any manner connected with, the purchase by the Intercolonial Railway of a property in Moncton, N.B., at the corner of Archibald and Main streets in said city, formerly owned in his lifetime by the late P. S. Archibald, C.E., and now occupied by the General Superintendent of the Intercolonial Railway, F. P. Brady, as a residence; together with a copy of all bills, accounts and statement of expenditures for repairs made on the buildings of said property; and also of accounts, commissions and bills paid to solicitors, attorneys or other agents, for searches, conveyances, and a statement of all moneys paid for charges and expenses in connection with such purchase or the procuring of a deed of said property? Presented March 16, 1914.—*Mr. Emmerson*.....*Not printed.*
- 202a.** Supplementary Return to an Order of the House of the 9th February, 1914, for a copy of all papers, letters or other correspondence, instructions, reports, valuations, appointment of valuers, or appraisers, appraisements, abstracts of titles, deeds or other conveyances in any department of the Government or in the railway offices at Moncton, relating to, or in any manner connected with, the purchase by the Intercolonial Railway of a property in Moncton, N.B., at the corner of Archibald and Main streets in said city, formerly owned in his lifetime by the late P. S. Archibald, C.E., and now occupied by the General Superintendent of the Intercolonial Railway, F. P. Brady, as a residence; together with a copy of all bills, accounts and statement of expenditures for repairs made on the buildings of said property; and also of accounts, commissions and bills paid to solicitors, attorneys or other agents, for searches, conveyances, and a statement of all monies paid for charges and expenses in connection with such purchase or the procuring of a deed of said property. Presented March 26, 1914.—*Mr. Emmerson*.....*Not printed.*
- 202b.** Further Supplementary Return to an Order of the House of the 9th February, 1914, for a copy of all papers, letters or other correspondence, instructions, reports, valuations, appointment of valuers, or appraisers, appraisements, abstracts of titles, deeds or other conveyances in any department of the Government or in the railway offices at Moncton, relating to, or in any manner connected with, the purchase by the Intercolonial Railway of a property in Moncton, N.B., at the corner of Archibald and Main streets in said city, formerly owned in his lifetime by the late P. S. Archibald, C.E., and now occupied by the General Superintendent of the Intercolonial Railway, F. P. Brady, as a residence; together with a copy of all bills, accounts and statement of expenditures for repairs made on the buildings of said property; and also of accounts, commissions and bills paid to solicitors, attorneys or other agents, for searches, conveyances, and a statement of all monies paid for charges and expenses in connection with such purchase or the procuring of a deed of said property. Presented April 1, 1914.—*Mr. Emmerson*.....*Not printed.*
- 203.** Return to an Order of the House of the 4th March, 1914, for a return showing the freight rates under the old tariff of the Intercolonial Railway, per 100 lbs. or per ton, on flesh, dried and cured fish, molasses, coal oil, nails, hardware and anthracite coal from Gloucester Junction and Bathurst station to and from St. John, and the present rates for the same articles between the same points. Presented March 17, 1914.—*Mr. Turgeon*.....*Not printed.*
- 204.** Return to an Order of the House of the 23rd February, 1914, for a return showing all smelt fishing licenses issued in the County of Pictou during the past season, and of all correspondence in reference to the same. Presented March 17, 1914.—*Mr. Macdonald*.....*Not printed.*
- 204a.** Supplementary Return to an Order of the House of the 23rd February, 1914, for a return showing all smelt fishing licenses issued in the County of Pictou during the past season, and of all correspondence in reference to the same. Presented April 17, 1914.—*Mr. Macdonald*.....*Not printed.*
- 205.** Return to an Order of the House of the 2nd February, 1914, for a copy of all documents concerning the latest changes in the lobster fishing regulations at Magdalen Islands. Presented March 17, 1914.—*Mr. Lemieux*.....*Not printed.*

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- 206.** Return to an Order of the House of the 16th February, 1914, for a copy of all correspondence, telegrams, tenders and documents connected in any way with the supplying of coal to the lobster hatchery at Margaree during the years 1910-1911, 1911-1912, 1912-1913 and 1913-1914. Presented March 17, 1914.—*Mr. Chisholm (Antigonish)*.
Not printed.
- 207.** Return to an Order of the House of the 16th February, 1914, for a copy of the charges made against Mrs. Marguerite Fair, postmistress of Black Cape, Quebec, on which Mr. Louis Thelès of Montreal was authorized to hold an investigation, together with the report of such investigation, if any was held. Presented March 17, 1914.—*Mr. Menard (Bonaventure)*.
Not printed.
- 208.** Return to an Order of the House of the 2nd February, 1914, for a copy of all correspondence, papers, documents, reports, &c., in connection with the proposed increase of mail service from Shelburne, N.S., to Jordan Bay and Jordan Ferry and return since October 1, 1911. Presented March 17, 1914.—*Mr. McPherson (Halifax)*.
Not printed.
- 209.** Return to an Order of the House of the 2nd February, 1914, for a copy of all correspondence between the Post Office Department, or any of its officers, and any person or persons, concerning the installation of street letter boxes in the village of Chesley, in the riding of South Bruce. Presented March 17, 1914.—*Mr. Graham*.
Not printed.
- 210.** Report of the Commission of Conservation of Canada on the Trent Watershed Survey, a reconnaissance by C. D. Howe, P. D., and J. H. White, B.A., B.Sc., F., with an introductory discuss on by B. E. Fernow, LL.D. Presented by Hon. Mr. Borden, March 19, 1914.
Not printed.
- 210a.** Conservation of coal in Canada. Report of Commission of Conservation (Senate).
Not printed.
- 211.** Copy of evidence taken before Mr. William Henry Moore, the commissioner appointed to inquire into certain charges against Mr. Frank Egan, store-keeper on the Trent Canal, sent in the Senate of the Western provinces of Canada. Presented by Hon. Mr. Borden, March 19, 1914.
Not printed.
- 212.** Copy of the opinion of the Deputy Minister of Justice on the subject of increased representation in the Senate of the Western provinces of Canada. Presented by Hon. Mr. Borden, March 19, 1914.
Not printed.
- 212a.** Copy of a resolution of the Legislative Assembly of the Province of British Columbia, approved by His Honour the Lieutenant-Governor in Council, in which application is made to the Federal Government to increase the number of senators for the said province. Presented by Hon. Mr. Borden, March 19, 1914.
Not printed.
- 212b.** Copy of opinion of the Assistant Deputy Minister of Justice on the subject of increased representation in the Senate of the prairie provinces of Canada. Presented by Hon. Mr. Borden, March 23, 1914.
Not printed.
- 213.** Return to an Order of the House of the 23d March, 1914, for a copy of all papers and correspondence in the Department of Fisheries regarding the entry of a boring mill at Lethbridge, Alberta, shipped in August, 1913, by John Stark and Company, and billed to the Lethbridge Iron Works. Presented March 20, 1914.—*Mr. Bachman*.
Not printed.
- 214.** Return to an Order of the House of the 15th March, 1914, for a copy of a petition dated the 9th of July, 1911, signed by Etienne Baire, Joseph Trudeau and others, taxpayers of the municipality of Chambly Basin, and addressed to the Minister of Justice, together with a copy of all documents and vouchers attached to said petition, and of all correspondence and other documents relating thereto. Presented March 23, 1914.—*Mr. Lamarche*.
Not printed.
- 215.** Return to an Order of the House of the 2nd February, 1914, for a return showing where the D.S. cruiser *Margaret* was built, the names of the builders; the contract price; whether the contract was awarded to the lowest tenderer; the name and address of each tenderer and amount of each tender, if the Government or any department thereof has contracted for any other vessel or vessels during the past eighteen months; and if so, the number of such vessels, the names and addresses of the contractors, the gross tonnage of each and the contract price, and the service for which they were intended. Presented March 23, 1914.—*Mr. Sinclair*.
Not printed.
- 216.** Return to an Order of the House of the 2nd March, 1914, for a copy of all letters, telegrams or other correspondence in connection with the seizure of eleven (11) horses belonging to Mr. John M. Ferguson, Kaleida, Manitoba, on or about the 28th day of March, 1912. Presented March 24, 1914.—*Mr. Turner*.
Not printed.
- 217.** Return to an Order of the House of the 4th February, 1914, for a return showing the quantities and values of potatoes imported monthly into Canada during the years 1911, 1912 and 1913, and the countries from which such potatoes were imported. Presented March 25, 1914.—*Mr. Hughes (Kings, P.E.I.)*.
Not printed.

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- 217a.** Return to an Order of the House of the 2nd February, 1914, for a return showing the quantities and values of potatoes exported monthly from each province of Canada, from September 1, 1911, to January 1, 1914, and the countries to which the same were exported. Presented March 25, 1914.—*Mr. Carvell**Not printed.*
- 218.** Return to an Order of the House of the 12th March, 1914, for a return showing how many colonels, honorary colonels, lieutenant-colonels, honorary lieutenant-colonels, and other officers, honorary and otherwise, have been appointed by the Minister of Militia and Defence from October, 1911, to the present time. Presented March 25, 1914.—*Mr. Hughes (Kings, P.E.I.)*.....*Not printed.*
- 218a.** Return to an Order of the House of the 11th February, 1914, for a return showing the number of honorary appointments to military rank which have been made by, or with the approval of, the present Minister of Militia and Defence since he assumed office, giving the names of the persons so appointed, and the rank of each. Presented April 1, 1914.—*Mr. Murphy**Not printed.*
- 219.** Kitsilano Indian reserve—relating to the purchase of by the Government of the Dominion of Canada from the Province of British Columbia.—(*Senate*).....*Not printed.*
- 220.** Return to an Address to His Royal Highness the Governor General of the 9th March, 1914, for a copy of all papers, documents, Orders in Council, correspondence, &c., in reference to the suspension of Mr. Joseph McGillis of the Department of Customs, Ottawa. Presented March 27, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*
- 221.** Return to an Order of the House of the 2nd February, 1914, for a return showing the names of all parties who have been employed at the Experimental Farm at Ste. Anne de la Pocatière during the years 1912 and 1913, and the salary and fees paid to each of them. Presented March 30, 1914.—*Mr. Lapointe (Kamouraska)*.....*Not printed.*
- 222.** Return to an Order of the House of the 9th February, 1914, for a return showing the total number of veterinary inspectors employed by the Government in the slaughter houses of the country; how they are distributed in each Province; the names of the establishments they are connected with, and the number of officers in each of them; if the Government employ some others to supervise the health of the herds on the farms besides the veterinary inspectors connected with the slaughter houses; the number of them, and how they are distributed in each Province; the number of herds of both cattle and hogs that have been submitted to inspection during the years 1911, 1912 and 1913; the number of animals in each Province slaughtered after tuberculosis was found in them; if the Government paid indemnities to the owners on account of such slaughtering, and if so, the amount in each Province; the respective salaries of the veterinary inspectors employed in the slaughter houses; the working hours of those officers; the respective salaries paid to the veterinary inspectors employed for other purposes; the amount of the expenses of that branch of the Department of Agriculture for the years 1911, 1912 and 1913 for internal management, such as salaries, and the salaries and expenses for each of the Provinces. Presented March 30, 1914.—*Mr. Boyer*,
Not printed.
- 223.** Return to an Order of the House of the 23rd February, 1914, for a copy of the report of George Lafontaine, received by the Department of Agriculture during the present fiscal year, relating to the manufacture of chemical manure. Presented March 30, 1914.—*Mr. Boulay**Not printed.*
- 224.** Return to an Order of the House of the 16th February, 1914, for a return showing—
1. Whether the Postmaster General has given a contract for rural parcel boxes; and, if so, to whom?
 2. Whether tenders for the boxes were asked?
 3. From whom tenders were received?
 4. The price, if any, of the different tenders?
 5. How many boxes were ordered, and at what price?
 6. Whether the Postmaster General, since he came into office, has made a contract for rural mail boxes, and, if so, when?
 7. The amount of the contract?
 8. Who the tenderers were, and the price, if any, of the different tenders?
 9. Who received the contract, and the price paid per box?
 10. How many boxes, if any, were ordered? Presented March 31, 1914.—*Mr. Nesbitt**Not printed.*
- 225.** Return to an Order of the House of the 23rd March, 1914, for a return showing the rates of interest paid on all Dominion loans from 1890 to 1914. Presented March 31, 1914.—*Mr. Pardee*.....*Not printed.*
- 226.** Return to an Address to His Royal Highness the Governor General, of the 9th March, 1914, for a copy of all correspondence since October, 1911, between the Government of Canada, represented by the Department of Marine and Fisheries, of the one part, and the Government of the United Kingdom, the Government of the United States, or any other Government, of the other part, relating to steam trawling in Atlantic waters. Presented March 31, 1914.—*Mr. Sinclair*.....*Not printed.*

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- 227.** Return to an Order of the House of the 11th February, 1914, for a copy of all letters, telegrams, and written requests during the years 1912 and 1913, addressed to the Department of Marine and Fisheries, or the Department of Naval Affairs, or any officer of either Department, or Marine branches of said department, or any officer or persons of either branch, by any person or persons, relating to proposals or requests that the vessels or any vessel under the control of the Naval Branch of said Department, should be present at any regatta or celebration of any description held anywhere on the Atlantic or Pacific Coasts of Canada during said years; also of all replies to such letters, telegrams and written requests. Presented March 31, 1914.—*Mr. Law* *Not printed.*
- 228.** Return to an Order of the House of the 29th March, 1914, for a copy of all correspondence, memoranda and other documents relating to the moral, mental and physical inspection of all immigrants entering Canada. Presented April 1, 1914. *Mr. Paquet* *Not printed.*
- 229.** Return to an Order of the House of the 15th March, 1914, for a copy of all orders, reports, applications, letters, telegrams and other documents connected with or in any manner relating to the retirement of Amasa E. Killam, an official of the Intercolonial Railway, from the employment of the said railway, and to his claim for a retiring allowance, under the provisions of the Intercolonial and Prince Edward Island Railway Employees' Provident Fund Act; and also of all letters showing the date of his beginning work in the service of the said railway and of his appointment to a position in the employ of said railway on the first of April, 1897, or at any other date. Also a copy of all instructions and letters from the then Minister of Railways to the general manager or to any other official of the Intercolonial, relating to engagement or employment of the said Amasa E. Killam, and of all letters, correspondence, instructions, reports, or other documents in any way relating thereto and to the engagement of the said Amasa E. Killam, during the month of March, 1897, to take the position of bridge and building inspector on the Intercolonial Railway, to commence work on the first day of April, 1897. Presented April 1, 1914. *Mr. Emerson* *Not printed.*
- 230.** Return to an Order of the House of the 23rd February, 1914, for a copy of all letters, papers and other documents relating to the payments made at Skippers Cove, Pictou County, for purchase of land or other rights in the year 1913. Presented April 2, 1914. *Mr. Macdonald* *Not printed.*
- 231.** Return to an Order of the House of the 2nd February, 1914, for a copy of all papers, correspondence, telegrams, letters, pay rolls, accounts and vouchers in any way relating to the expenditure of money by the Government on the wharf at Whytecomagh. Presented April 2, 1914. *Mr. Macdonald* *Not printed.*
- 231a.** Return to an Order of the House of the 2nd February, 1914, for a copy of all papers, advertisements, tenders, bids, contracts, reports, vouchers, accounts, receipts, correspondence, &c., in connection with the construction of a wharf at Feltzen South, Lunenburg County, N.S., now under construction or recently completed. Presented April 2, 1914. *Mr. Chisholm* *Not printed.*
- 231b.** Return to an Order of the House of the 4th March, 1914, for a return showing:
1. How much money was expended on the repairs to the wharf at South Gut, Victoria County, during the summer of 1913?
 2. How much on labour and how much on material, respectively?
 3. Who was the foreman, by whom recommended, and his rate of wages per day?
 4. How many days he was employed as foreman?
 5. How many men he had working for him on the wharf each day, and the wages paid each man?
 6. How much was paid for material for the repairs, and where it was obtained?
 7. From whom the material was purchased, the nature of it, and the price paid per foot?
 8. Who was the paymaster on this work and when the men were paid? Presented April 2, 1914.—*Mr. McKeown* *Not printed.*
- 231c.** Return to an Order of the House of the 29th February, 1914, for a return showing the amount expended by the Government on wharfs, bridges, public works and dredging in the County of Yarmouth since October 11, 1911, and to whom the amounts so expended were paid. Presented April 2, 1914. *Mr. Law* *Not printed.*
- 231d.** Return to an Order of the House of the 1th March, 1914, for a return showing:
1. How much money was expended on repairs to the Englishtown wharf, County of Victoria, in the summer of 1913?
 2. How much on labour and how much on material, respectively?
 3. Who was the foreman, by whom he was recommended, and his rate of wages per day?
 4. How many days he was employed as foreman?
 5. How many men he had working for him on the wharf each day, and the wages paid each man?

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6. From whom the material was purchased, of what it consisted, and the price paid per foot?
 7. Who was the paymaster on this work, and when the men were paid?
 8. When the work was begun and when completed? Presented April 2, 1914.—
Mr. McKenzie *Not printed.*
- 231e.** Return to an Order of the House of the 16th February, 1913, for a copy of all letters, telegrams, correspondence, pay-rolls, vouchers and documents of all kinds connected in any way with repairs or extension of wharf at Finlay Point, Mabou, Inverness County, during the year 1910-1911. Presented April 2, 1914.—*Mr. Chisholm (Inverness)* *Not printed.*
- 231f.** Return to an Order of the House of the 4th March, 1914, for a return showing the amount of timber used and the price paid for same in renewing and repairing the wharf at Port Clyde, Shelburne County, N.S.; the amount of wages paid on same, and to whom; and the number and price of ballast poles used in the above work. Presented April 2, 1914.—*Mr. Law* *Not printed.*
- 231g.** Return to an Order of the House of the 12th May, 1913, for a copy of all papers, telegrams, documents, reports, correspondence, &c., in any way relating to a proposed extension of a wharf or the construction of a new wharf at Finlay Point, Inverness County, N.S. Presented April 2, 1914.—*Mr. Chisholm (Inverness)* *Not printed.*
- 231h.** Return to an Order of the House of the 26th May, 1913, for a copy of all papers, letters and documents relating to the building of a wharf in the town of L'Assomption. Presented April 2, 1914.—*Mr. Seguin* *Not printed.*
- 231i.** Return to an Address of the 19th May, 1913, to His Excellency the Administrator for a copy of all papers, tenders, contracts, accounts, and Orders in Council, between the Department of Public Works and any other person or persons, relating to the purchase of a site for the public wharf being erected or recently erected at Bear River, N.S., and also relating to the construction of said wharf, and anything in connection therewith. Presented April 2, 1914.—*Mr. Maclean (Halifax)* *Not printed.*
- 231j.** Return to an Order of the House of the 31st March, 1913, for a copy of all papers, documents, correspondence, &c., relating to the purchase of a property at Centreville, Shelburne County, Nova Scotia, as a site for a public wharf, and in connection with any monies expended on the McGray property at Centreville, upon the public wharf. Presented April 2, 1914.—*Mr. Kyle* *Not printed.*
- 231k.** Return to an Order of the House of the 9th March, 1914, for a copy of all correspondence, letters, telegrams, notes, requests, &c., addressed to the Department or the Minister of Public Works, directly or indirectly, in connection with the work necessary for the completion of the wharf at Sainte Croix, County of Lotbinière, since the 21st of September 1911, to date. Presented April 16, 1914.—*Mr. Fortier* *Not printed.*
- 231l.** Return to an Order of the House of the 2nd February, 1914, for a copy of all correspondence, petitions, memorials, letters, reports, and telegrams, in the Department of Public Works, or in any of the Departments of the Government, relating to a proposed wharf or breakwater at Little Cape, and Great Shemogue Harbour, Westmorland County, N.B.; also of all correspondence, letters and telegrams exchanged between any member of the Government and M. G. Siddal, or any other persons or corporations, relating to a proposal or application to construct a wharf or breakwater at Little Cape or Great Shemogue Harbour in Westmorland County, N.B., or in connection with having a survey made in connection with any such proposal. Presented April 17, 1914.—*Mr. Emmer-son* *Not printed.*
- 231m.** Return to an Order of the House of the 9th February, 1914, for a copy of all reports, memoranda, correspondence and documents of every nature, relating to the construction of a wharf in the town of L'Assomption, and of all petitions and correspondence in favour or against such construction to date, and the reasons why the construction of such wharf, authorized in the estimates of 1911-1912, has not been proceeded with. Presented April 17, 1914.—*Mr. Seguin* *Not printed.*
- 231n.** Return to an Order of the House of the 16th March, 1914, for a copy of all accounts, vouchers, pay-rolls, instructions, correspondence and recommendations relating to the expenditure on the public wharf at Arichat, N.S., since the 11th day of October, 1911. Presented April 30, 1914.—*Mr. Kyle* *Not printed.*
- 231o.** Return to an Order of the House of the 16th February, 1914, for a copy of all tenders, contracts, memorandums, pay-rolls, accounts, vouchers, correspondence, papers and documents, &c., in connection with work performed upon the Government wharf at Croft's Cove, Lunenburg County, in 1912. Presented April 30, 1914.—*Mr. Maclean (Halifax)* *Not printed.*
- 231p.** Return to an Order of the House of the 9th March, 1914, for a copy of all correspondence, letters, telegrams, petitions and other documents relating to the claim of the Bonaventure and Gloucester Interprovincial Company, Limited, in connection with a wharf on Bonaventure river, Bonaventure County. Presented April 30, 1914.—*Mr. Sevigny*.
Not printed.

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- 2317.** Supplement to an Order of the House of the 9th March, 1914, for a copy of all correspondence, letters, telegrams, notes, requests, &c., addressed to the Department or the Minister of Public Works, directly or indirectly, in connection with the work necessary for the completion of the wharf at Sainte Croix, County of Lotbinière, since the 21st September, 1911, to 1st Presented April 30, 1914. *Mr. Fortin.* *Not printed.*
- 2317r.** Return to an Order of the House of the 2nd February, 1914, for a copy of all orders, contracts, pay rolls, vouchers, receipts, correspondence, &c., in connection with the purchase of a site for the completion of wharf at Belle Rivière, N.S., and the construction of the said wharf. Presented April 29, 1914. *Mr. Macdonald-Hunter.* *Not printed.*
- 2318.** Return to an Order of the House of the 9th March, 1914, for a return showing—
 1. How much money was spent upon Kingsport Pool, Kings County, N.S., in 1913?
 2. The name of the foreman or commissioner, by whom he was recommended, and his remuneration?
 3. How much lumber was purchased and used for said pool, from whom it was purchased, and the price paid for the same, and how much was returned thereof? Presented April 30, 1914. *Mr. Macdonald-Hunter.* *Not printed.*
- 2318f.** Return to an Order of the House of the 19th February, 1914, for a copy of the pay list, including the names and positions of all those who were employed on the wharf of Belle Verte, County of Témiscouata, the amount of their salaries, and the amount of the amount received by each of them, who had not received the receipt or receipts for said amounts, in connection with the work which was done during the summer of 1912, including the statement of the said wharf, 1914. Presented May 4, 1914. *Mr. Gauthier.* *Not printed.*
- 2318u.** Return to an Order of the House of the 19th February, 1914, for a copy of the pay list, including the names and positions of all those who were employed on the wharf to the west of Rivière Verte, Témiscouata, the amount of their salaries, and the amount of the amount of money received by each of them, who had not received the receipt or receipts for said amounts, in connection with the work which was done during the summer of 1912 and 1913. Presented May 4, 1914. *Mr. Gauthier.* *Not printed.*
- 2318v.** Further Supplement to an Order of the House of the 9th March, 1914, for a copy of all correspondence, letters, telegrams, notes, requests, &c., addressed to the Department or the Minister of Public Works, in connection with the work necessary for the completion of the wharf at Sainte Croix, County of Lotbinière, since the 21st September, 1911, to 1st Presented May 4, 1914. *Mr. Fortin.* *Not printed.*
- 2318w.** Return to an Order of the House of the 9th March, 1914, for a copy of all letters and telegrams addressed by G. A. R. to the Minister of Public Works, or the Minister of Public Works, or the Minister of the Interior, in connection with the work which was done on the wharf at Belle Rivière, N.S., and all replies thereto. Presented May 12, 1914. *Mr. St. Germain.* *Not printed.*
- 2318x.** Return to an Order of the House of the 19th February, 1914, for a copy of all letters, telegrams and correspondence, contracts, pay rolls and vouchers relating to the pier at Margaree Harbour, Inverness County, Nova Scotia, in 1912-1913 and 1913-1914. Presented May 12, 1914. *Mr. Chénier.* *Not printed.*
- 2318y.** Return to an Order of the House of the 27th April, 1914, for a copy of all correspondence, pay rolls, contracts, orders, vouchers and receipts relating to the construction of Pelton South wharf, Inverness County, N.S. Presented May 16, 1914. *Mr. Macdonald-Hunter.* *Not printed.*
- 2318z.** Return to an Order of the House of the 2nd February, 1914, for a copy of all orders, contracts, correspondence, letters, telegrams, notes, requests, and vouchers, in any way relating to the expenditure of money by the Government for the completion of the pier of the public wharf at Port Hood. Presented May 14, 1914. *Mr. Chénier.* *Not printed.*
- 231 (2a).** Return to an Order of the House of the 4th May, 1914, for a copy of all correspondence, telegrams, letters, contracts, vouchers, receipts, and all correspondence in any way connected with the completion of the wharf at Belle Rivière, N.S. Presented May 16, 1914. *Mr. Macdonald-Hunter.* *Not printed.*
- 231 (2b).** Return to an Order of the House of the 6th April, 1914, for a copy of all correspondence, letters, telegrams, contracts, orders, vouchers and receipts relating to the wharf at Annapolis, N.S., to be used by SS. *Macdonald.* Presented May 29, 1914. *Mr. Ryan.* *Not printed.*
- 231 (2c).** Return to an Order of the House of the 9th March, 1914, for a return showing—
 1. How much money was spent upon Kingsport Pool, Kings County, N.S., during the year 1913?
 2. The name of the foreman or commissioner, by whom he was recommended, and the remuneration paid him?
 3. How much lumber was purchased and used for said pool, from whom it was purchased, and the price paid for the same, and how much was returned thereof?
 4. What was done with the lumber or pling taken out of said pool, if the same was sold, to whom and at what price? Presented May 29, 1914. *Mr. Macdonald-Hunter.* *Not printed.*

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- 231** (2d). Return to an Order of the House of the 27th April, 1914, for a copy of all correspondence, pay-rolls, accounts, receipts, vouchers and papers relating to the construction of Kraut Point wharf, Lunenburg County, N.S. Presented June 12, 1914.—*Mr. Maclean (Halifax)* *Not printed.*
- 232.** Return to an Order of the House of the 4th March, 1914, for a return showing:—
 1. How much money has been expended in public works in the Counties of Rimouski and Gaspé, respectively, since October 11, 1911.
 2. How much of the money so expended was provided for in the estimates of 1911-1912?
 3. What amount was expended on the works for which money was not included in the estimates of 1911-1912? Presented April 2, 1914.—*Mr. Marcil (Bonaventure)*.
Not printed.
- 232a.** Return to an Order of the House of the 23rd February, 1914, for a return showing how much money has been expended on public works in Antigonish County since October 11, 1911.
 2. How much of the amount so expended was provided in the estimates for 1911-1912?
 3. What amount, not included in the estimates for 1911-1912, was expended on public works in said county? Presented April 2, 1914.—*Mr. Chisholm (Antigonish)*.
- 232b.** Return to an Order of the House of the 9th February, 1914, for a copy of all papers, reports, documents, correspondence, plans, &c., in reference to a proposed Government public building at Bear River, N.S., and the purchase of a site for the same. Presented April 2, 1914.—*Mr. Maclean (Halifax)* *Not printed.*
- 232c.** Return to an Order of the House of the 9th April, 1913, for a copy of all charges, correspondence, pay-rolls, telegrams and other documents relating in any way to the expenditure of money on the harbour improvements at Mahon Harbour by the Department of Public Works, during the years 1911-12, 1912-13. Presented April 2, 1914.—*Mr. Chisholm (Inverness)* *Not printed.*
- 232d.** Return to an Order of the House of the 28th May, 1913, was issued to the proper officer for a copy of the specifications and tenders for materials to be used in connection with the proposed dry dock at Lauzon, Quebec. Presented April 2, 1914.—*Mr. Lemieux*.
Not printed.
- 232e.** Return to an Order of the House of the 3rd March, 1913, for a copy of all documents, letters, reports of engineers and statements of detailed expenditure in connection with dredging at Bonaventure River, Quebec. Presented April 2, 1914.—*Mr. Marcil (Bonaventure)* *Not printed.*
- 232f.** Return to an Order of the House of the 3rd March, 1913, for a copy of all petitions, correspondence, reports or other papers or documents in the Department of Public Works relating to the building of a breakwater at Goulman's Point, Half Island Cove, Guys-boro' County, N.S. Presented April 2, 1914.—*Mr. Sinclair*..... *Not printed.*
- 232g.** Return to an Order of the House of the 16th February, 1914, for a copy of all letters, telegrams, correspondence and documents of all kinds in any way relating to a lighthouse to be built at Red Cape, Margaree Harbour, Inverness County. Presented April 7, 1914.—*Mr. Chisholm (Inverness)* *Not printed.*
- 232h.** Return to an Order of the House of the 2nd February, 1914, for a copy of all papers, documents, telegrams, correspondence, &c., in reference to the purchase of a site in Saskatoon for a post office building. Presented April 16, 1914.—*Mr. McCrancy*.
Not printed.
- 232i.** Return to an Order of the House of the 9th February, 1914, for a copy of all correspondence, reports, petitions and documents exchanged by and with the Department of Public Works since the 1st of September, 1911, to date, with the reasons why the construction of the public building, authorized in the town of St. Lin Des Laurentides, County of L'Assomption, as per the estimates of 1911-1912, has not been proceeded with. Presented April 17, 1914.—*Mr. Séguin* *Not printed.*
- 232j.** Return to an Order of the House of the 2nd February, 1914, for all correspondence, reports and documents exchanged by and with the Department of Public Works from October, 1911, to date, regarding the non-erection of the public building authorized to be erected at New Carlisle, the county seat of Bonaventure County, in the estimates of 1911-1912. Presented April 17, 1914.—*Mr. Marcil (Bonaventure)*..... *Not printed.*
- 232k.** Return to an Order of the House of the 2nd February, 1914, for a return showing the names of all persons who worked on Lingan Bar, South Cape Breton, under Superintendent H. D. McLean, the wages paid to each per diem, the amount paid each or payable to each, and showing generally how the amount voted for such work was expended, and the amount received by H. D. McLean in connection with said work. Presented April 17, 1914.—*Mr. Carroll* *Not printed.*

CONTENTS OF VOLUME 28—Continued.

- 232f.** Return to an Order of the House of the 2nd February, 1914, for a copy of all papers, advertisements, tenders, contracts, papers, telegrams, correspondence, returns, reports, accounts, vouchers, receipts, &c., in connection with any dredging performed by the Nova Scotia Dredging Company, or any other company, corporation or individuals, at Jeddore, Halifax County, N.S., in the years 1912 and 1913. Presented April 17, 1914. *Mr. Maclean (Halifax)*.....Not printed.
- 232m.** Return to an Order of the House of the 12th May, 1913, for a copy of all papers, telegrams, documents, reports, correspondence, pay-rolls, &c., in any way relating to a life-saving station which was constructed at Cheticamp, during 1912. Presented April 27, 1914. *Mr. Chisholm (Antigonish)*.....Not printed.
- 232n.** Return to an Order of the House of the 12th May, 1914, for a return showing:
 1. What firms or persons are or have been engaged in dredging for the Government in the harbour of St. John and upon the St. John river and its tributaries since October 1, 1911.
 2. What amount has been paid to each firm or person for this work from October 1, 1911, to the present time.
 3. Who are the officers, president, managers and secretary of each of these corporations. Presented April 30, 1914. *Mr. Chisholm*.....Not printed.
- 232o.** Return to an Order of the House of the 16th February, 1914, for a copy of all documents bearing on the dredging and improvement of the Miramichi River in the Counties of Riverview and Bonaventure. Presented April 27, 1914. *Mr. Maclean (Bonaventure)*.....Not printed.
- 232p.** Return to an Order of the House of the 12th May, 1914, for a return showing:
 1. What has been spent on the dredging of the Miramichi River by the Government since October 21, 1911, in connection with the work done in St. John harbour and on the R.V. St. John's River.
 2. Who are the contractors engaged in this work, and from whom contracts have been let.
 3. The sum paid per day to each contractor, and how many days each has worked in the period referred to.
 4. What amount of money has been paid for the services of each contractor in the period referred to and to whom. Presented April 30, 1914. *Mr. Chisholm*.....Not printed.
- 232q.** Return to an Order of the House of the 26th March, 1914, for a return showing the details as to the nature of the work done in the Miramichi River since October 21, 1911, the number of men employed, the nature of the work performed, the period of their employment, and the amount of money expended. Presented April 27, 1914. *Mr. L. Maclean*.....Not printed.
- 232r.** Return to an Order of the House of the 16th March, 1914, for a copy of all contracts, tenders, correspondence, reports, public notices, and other documents filed in the Department of Public Works since 1910 relating to the straightening of the channel, or the straightening or widening of the channel, or other improvements proposed to be made there. Presented April 30, 1914. *Mr. Chisholm (Antigonish)*.....Not printed.
- 232s.** Return to an Order of the House of the 23rd May, 1914, for a copy of all letters, papers and other documents relative to the purchase of a lot of land in the town of St. Anton, for a public building. Presented April 30, 1914. *Mr. Maclean (St. Anton)*.....Not printed.
- 232t.** Return to an Order of the House of the 2nd February, 1914, for a copy of all papers, correspondence, telegrams, letters, pay-rolls, accounts, and vouchers in any way relating to the construction of a new bridge over the river in the construction of the new telegraph line between the towns of Riverview, Victoria County, N.S. to North East, Miramichi, Bay of Fundy County, N.S. and to Riverview, Inverness County, N.S., and also in connection with the lines from St. West, Miramichi to Rock Harbor, and from St. Anthony to Weymouth, all in Inverness County, N.S. Presented May 1, 1914. *Mr. Chisholm (Antigonish)*.....Not printed.
- 232** Return to an Order of the House of the 2nd February, 1914, for a copy of all papers, documents, telegrams, correspondence, &c., in reference to the purchase of a property or site on Galloway street, Halifax, for the erection of a post office building. Presented May 1, 1914. *Mr. Maclean (Halifax)*.....Not printed.
- 232u.** Return to an Order of the House of the 16th March, 1914, for a return showing all payments made in the year 1913 in connection with repairs done to, or moneys expended on, the Blue Rock breakwater in Antigonish County, with the names of the persons to whom such payments were made, the amount paid to each, and what such amounts were for. Presented May 1, 1914. *Mr. Chisholm (Antigonish)*.....Not printed.
- 232v.** Return to an Order of the House of the 23rd May, 1914, for a copy of all papers, documents, correspondence, &c., from any person or persons in connection with the purchase of the site for the post office at Canning, N.S. Presented May 1, 1914. *Mr. Maclean (Halifax)*.....Not printed.

CONTENTS OF VOLUME 28—Continued.

- 232x.** Return to an Order of the House of the 2nd February, 1914, for a copy of all tenders received for the construction of a lighthouse at Grand Anse, Gloucester County, N.B., and of the contract awarded. Presented May 5, 1914.—*Mr. Turgeon*.....*Not printed.*
- 232y.** Return to an Order of the House of the 16th February, 1914, for a copy of all papers, letters, telegrams, reports, deeds, fees paid to lawyers, and other documents relative to the purchasing of land from Mrs. C. F. Bertrand and Arthemise Dionne, in connection with the works on the southwest side of Rivière-Verte, l'Islet, County of Témiscouata. Presented May 5, 1914.—*Mr. Gauvreau**Not printed.*
- 232z.** Return to an Order of the House of the 20th April, 1914, for a copy of all correspondence between the Minister of Public Works, the Minister of Justice, or any other member of the Government, and any person or persons, relating to the location and erection of the new post office in the village of Eganville, County of Renfrew. Presented May 5, 1914.—*Mr. Graham**Not printed.*
- 232 (2a).** Return to an Order of the House of the 16th March, 1914, for a copy of all correspondence, documents, recommendations and reports, respecting the dredging of Des Prairies river, the work done, depth, length and width of channel dredged, the list of men employed to perform that work, their salaries respectively, and the amount of money spent on that work since the 22nd of November, 1912, up to the 2nd of February, 1914. Presented May 7, 1914.—*Mr. Wilson (Laval)**Not printed.*
- 232 (2b).** Return to an Order of the House of the 6th April, 1914, for a copy of all letters, telegrams, correspondence, complaints, bills, accounts, vouchers, receipts and any documents in any way connected with the expenditure of money at Friar's Head Boat Harbour by Simon P. Doucet, during the years 1912-13, 1913-14. Presented May 7, 1914.—*Mr. Chisholm (Inverness)**Not printed.*
- 232 (2c).** Return to an Order of the House of the 16th February, 1914, for a copy of all papers in connection with the public building at Gravelburg, from and since January 1, 1912. Presented May 7, 1914.—*Mr. Knowles**Not printed.*
- 232 (2d).** Return to an Order of the House of the 23rd March, 1914, for a copy of all specifications and of all tenders pertaining to the Brantford public building now being erected, and of the contract awarded, and of all correspondence, whether by letter or telegram, with reference thereto. Presented May 7, 1914.—*Mr. Nesbitt*.....*Not printed.*
- 232 (2e).** Return to an Address to His Royal Highness the Governor General of the 9th February, 1914, for a copy of all correspondence, telegrams, petitions and memorials received by the Right Honourable R. L. Borden, Premier of Canada, or any other Minister of the Crown since the first day of October, 1911, from J. A. Gillies, Esq., N.S., or any resident of the County of Richmond, N.S., relative to expenditure of public money on public works in the said County of Richmond. Presented May 8, 1914.—*Mr. Kyte*.
Not printed.
- 232 (2f).** Supplementary Return to an Order of the House of the 20th April, 1914, for a copy of all correspondence between the Minister of Public Works, the Minister of Justice or any other member of the Government, and any person or persons, relating to the location and erection of the new post office in the village of Eganville, County of Renfrew. Presented May 8, 1914.—*Mr. Graham**Not printed.*
- 232 (2g).** Return to an Order of the House of the 2nd February, 1914, for a return showing the dredging operations carried on in Bonaventure County in 1913, together with a copy of estimates, reports, and correspondence. Presented May 11, 1914.—*Mr. Marcil*.
Not printed.
- 232 (2h).** Return to an Order of the House of the 9th February, 1914, for a copy of all correspondence and other documents in reference to the erection of a customs building in the village of Chesley, Riding of South Bruce. Presented May 12, 1914.—*Mr. Truax*.
Not printed.
- 232 (2i).** Return to an Order of the House of the 6th April, 1914, for a copy of all accounts and vouchers covering the expenditure during the calendar year 1913 at South Lake, Lakevale, Antigonish County, and showing in detail, the persons to whom such payments were made, what such payments were for, the number of day labourers employed, and the rate of wages, the quantity of material used and the price paid therefor, the quantity of material hauled to the work and not used, and the persons supplying such material. Presented May 12, 1914.—*Mr. Chisholm (Antigonish)*.
Not printed.
- 232 (2j).** Return to an Order of the House of the 23rd February, 1914, for a copy of all letters, papers, telegrams, valuations, appraisals and other documents relative to the obtaining of a site for a public building at Hantsport, Nova Scotia. Presented May 12, 1914.—*Mr. Macdonald**Not printed.*
- 232 (2k).** Return to an Order of the House of the 11th February, 1914, for a copy of all correspondence, letters, telegrams, reports, appraisals and other documents relative to the expropriation of the lands of John Campbell and Albert E. Milligan, in connection with the improvements on the East River at Pictou. Presented May 12, 1914.—*Mr. Macdonald**Not printed.*

CONTENTS OF VOLUME 28—Continued.

- 232 (20).** Return to an Order of the House of the 16th March, 1914, for a copy of all papers, letters and other documents, including pay-lists relating to the expenditure of moneys by the Public Works Department on Falmouth Township Dyke, Hants County, in 1913. Presented May 12, 1914. *Mr. Macdonald*. *Not printed.*
- 232 (2a).** Return to an Order of the House of the 16th March, 1914, for a copy of all accounts, vouchers, pay-rolls, instructions, correspondence and recommendations relating to the expenditure on the public building at Ashat, N.S., since the 11th day of October, 1911. Presented May 16, 1914. *Mr. Kyte*. *Not printed.*
- 232 (2a).** Return to an Order of the House of the 4th March, 1914, for a copy of all correspondence and other documents in connection with the letting of the construction for the Toronto harbour works. Presented May 15, 1914. *Mr. Pender*. *Not printed.*
- 232 (2c).** Return to an Order of the House of the 2nd February, 1914, for a return showing the nature and cost of works carried on in the County of Bonaventure by the Department of Public Works since October 19, 1911, to date, together with a copy of all reports, estimates, pay lists, and correspondence in connection therewith. Presented May 27, 1914. *Mr. Maril (Bonaventure)*. *Not printed.*
- 232 (2p).** Return to an Order of the House of the 23rd March, 1914, for a copy of all correspondence, documents, recommendations and reports respecting the dredging at Port Elgin, Westmorland County, N.B., with the names of men employed to perform that work, their salaries, respectively, and the amount of money spent on the same from January 1, 1901, to January 1, 1914. Presented May 27, 1914. *Mr. Robitaille*. *Not printed.*
- 232 (2q).** Further Supplementary Return to an Order of the House of the 20th April, 1914, for a copy of all correspondence between the Minister of Public Works, the Minister of Justice, or any other member of the Executive and any person or persons, relating to the location and erection of the new post office in the village of Beauséjour, County of Kent Co. W. Presented May 27, 1914. *Mr. Gahagan*. *Not printed.*
- 232 (2r).** Return to an Order of the House of the 16th February, 1914, for a copy of all papers in connection with the Immigration Hall at Grayburg, Saskatchewan, from and since the 1st January, 1912. Presented June 1, 1914. *Mr. Knowles*. *Not printed.*
- 232 (2s).** Return to an Order of the House of the 2nd February, 1914, for a copy of all advertisements, tenders, accounts, vouchers, letters, reports and correspondence relating to the construction of a breakwater at The Great Head, X County, N.S. Presented June 2, 1914. *Mr. Marston (Halifax)*. *Not printed.*
- 232 (2f).** Return to an Order of the House of the 23rd February, 1914, for a copy of all letters, telegrams, correspondence, contracts and documents relating to the surrender of a contract for dredging in Miramichi Bay, N.B., by Messrs. A. and R. Logie, and also with reference to the letting of a contract for the same or any portion of said work, to the Northern Dredging Company, together with a copy of all notices for tenders, tenders and contracts in connection therewith. Presented June 2, 1914. *Mr. Charvillat*. *Not printed.*
- 232 (2u).** Return to an Order of the House of the 6th April, 1914, for a copy of all letters, telegrams, documents, papers, &c., in connection with the purchase by the Government of lots 1 and 2, block 125, plan 95, in the city of Moosejaw for an examining warehouse site. Presented June 2, 1914. *Mr. Knowles*. *Not printed.*
- 232 (2e).** Return to an Order of the House of the 13th February, 1914, for a copy of all letters, telegrams, correspondence of all kinds, pay lists, vouchers, &c., in any way referring to the expenditure of moneys on shear claims on the Margate River, at Margate, and North East Margate, during 1911-1912 and 1912-1913. Presented June 2, 1914. *Mr. Chisholm (Inverness)*. *Not printed.*
- 233.** Return to an Order of the House of the 24th April, 1913, for a return showing what officers and men were employed on the dredge *Northumberland* at Pictou in the months of January, February and March, 1913, and the salaries and wages paid to them respectively, the amounts paid for repairs and supplies respectively, for said dredge during said months and to whom paid respectively. Presented April 2, 1914. *Mr. Macdonald*. *Not printed.*
- 234.** New Lobster Fishery Regulations established by Order in Council of the 23rd March, 1914, in lieu of those established by Order in Council of the 30th September, 1911, and all amendments thereto, by virtue of the provisions of Section 54 of the Fisheries Act, chapter 45 of the Revised Statutes of Canada, 1906. Presented by Hon. Mr. Hazen, April 7, 1914. *Not printed.*
- 235.** Return to an Order of the House of the 23rd March, 1914, for a return showing—
1. How many engineers there are in the employ of the Intercolonial Railway at Moncton and at other points on that railway, and their names?
 2. How many were formerly in the employ of the Canadian Pacific Railway Company?
 3. Whether Martin Murphy, C.E., is employed in the service of that railway. If so, when he was employed and what his age is? Presented April 7, 1914. *Mr. Emmerson*. *Not printed.*

CONTENTS OF VOLUME 28—Continued.

- 236.** Return to an Order of the House of the 30th March, 1914, for a return showing the travelling expenses paid by the Government to the Honourable Rodolphe Roy, Judge of the Superior Court at Rimouski, during the years 1912-1913 and 1914, for trips from Quebec to Rimouski and return. Presented April 8, 1914.—*Mr. Boulay*.....*Not printed.*
- 237.** Return to an Order of the House of the 23rd March, 1914, for a return showing:—
 1. The names of the lawyers who represented the Department of Justice in the district of Quebec, since the 21st September, 1911.
 2. The amount of money paid to each of them. Presented April 8, 1914.—*Mr. Lapointe (Kamouraska)*.....*Not printed.*
- 238.** Return to an Order of the House of the 4th February, 1914, for a copy of all letters, telegrams and documents generally concerning the withdrawal of an appeal in the Supreme Court of Canada, in the case of His Majesty the King, appellant, and Alfred Olivier Falardeau and Constant Napoleon Falardeau, respondents. Presented April 8, 1914.—*Mr. Lemieux*.....*Not printed.*
- 239.** Return to an Order of the House of the 16th March, 1914, for a copy of all transfers of lands by the Militia Department to the Harbour Commissioners of Montreal, and of all correspondence with regard to the same. Presented April 15, 1914.—*Mr. Carvell*.....*Not printed.*
- 240.** Return to an Order of the House of the 2nd March, 1914, for a return showing:—
 1. The quantities of wheat, by grade, received into the terminal elevators at Fort William and Port Arthur, from the date of the weigh-up in 1910, to date of weigh-up in 1911, the same for 1911-1912, and the same for 1912-1913.
 2. The quantities, by grade, delivered by each of the said elevators during the same periods.
 3. The average or shortage, as the case may be, of each grade in each of the said elevators, as shown by the said weigh-ups in each of those above mentioned periods.
 4. The date of the weigh-up in each case. Presented April 15, 1914.—*Mr. Neely*.....*Not printed.*
- 241.** Return to an Order of the House of the 2nd March, 1914, for a copy of all rules, orders and regulations, &c., affecting the handling of grain made by the Grain Commission to date, and of any changes made in elevator charges and terms, if any. Presented April 15, 1914.—*Mr. Neely*.....*Not printed.*
- 242.** Return to an Order of the House of the 6th April, 1914, for a copy of the new rules and regulations in regard to employees of the Intercolonial Railway and Prince Edward Island Railways. Presented April 15, 1914.—*Mr. Macdonald*.....*Not printed.*
- 243.** Return to an Address to His Royal Highness the Governor General of the 30th March, 1914, for a copy of all correspondence, petitions, lists of shareholders, Orders in Council, licenses, certificates and other papers and documents, and of all renewals thereof, relating to the incorporation and licensing of the Banque St. Jean, the Banque Ville Marie and the Banque Jacques Cartier, all in the Province of Quebec. Presented April 16, 1914.—*Mr. Demers*.....*Not printed.*
- 243a.** Return to an Address to His Royal Highness the Governor General of the 23rd March, 1914, for a copy of all correspondence, petitions, lists of shareholders, Orders in Council, licenses, certificates and other papers and documents and all renewals thereof, relating to the incorporation and licensing of the Bank of Yarmouth, and of all papers and documents relating to the winding up of the business of the said bank. Presented April 16, 1914.—*Mr. Laté*.....*Not printed.*
- 243b.** Return to an Address to His Royal Highness the Governor General, of the 16th March, 1914, for a copy of all correspondence, petitions, lists of shareholders, Orders in Council, licenses, certificates and other papers and documents and all renewals thereof, relating to the incorporation and licensing of the Pictou Bank, and of all papers and documents relating to the winding up of the business of the said bank. Presented April 30, 1914.—*Mr. Macdonald*.....*Not printed.*
- 244.** Return to an Order of the House of the 23rd March, 1914, for a copy of the reports made by Colin E. McKinnon, of Taylor's Road, Antigonish County, Frank A. McEchen, of Inverness, N.S., John A. McDougall of Glace Bay, C.B., J. M. McDonald, of Christmas Island, C.B., William Watkins of Cobourg Road, Halifax, S. P. Fream, of Brighton, Digby County, and J. J. Walker of Truro, N.S., special immigration agents appointed from the Province of Nova Scotia. Presented April 16, 1914.—*Mr. Chisholm (Antigonish)*.....*Not printed.*
- 245.** Return to an Address to His Royal Highness the Governor General of the 4th February, 1914, for a copy of all correspondence and papers generally concerning the proposed changes of the Judicial Committee of the Privy Council. Presented April 16, 1914.—*Mr. Lemieux*.....*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

- 246.** Return to an Order of the House of the 2nd March, 1914, for a return giving the following information, as far as may be available, respecting the constitution of Upper Chambers or Senates within the British Empire and in foreign countries, and especially such information in respect of the self-governing Dominions and of foreign countries possessing a federal system of Government:—
1. As to the method of appointment, whether by executive authority or by election by the people, or otherwise.
 2. As to the term of appointment, whether for life or for a term of years, or otherwise.
 3. As to a re-appointment or re-election, and generally as to the filling of vacancies occasioned by death or otherwise.
 4. As to qualifications, whether by age, residence, possession of real or personal property or otherwise.
 5. As to limitation of the membership, and as to the numerical relation of the membership to that of the Lower House.
 6. As to provisions for dissolution, appeal to the electorate, conferences or additional appointments in case of disagreement between the Upper and Lower House.
 7. As to the operation of the various systems in the several Dominions and countries mentioned, and in what respect defects or difficulties have made themselves manifest.
 8. All other relevant information respecting the constitution and status of such Upper Chambers. Presented April 16, 1914. *Mr. Mulholland.*
- Printed for sessional papers only*
- 246c.** Further Supplement to Return to an Order of the House of the 2nd March, 1914, for a return giving the following information, as far as may be available, respecting the constitution of Upper Chambers or Senates within the British Empire and in foreign countries, and especially such information in respect of the self-governing Dominions and of foreign countries possessing a federal system of Government:—
1. As to the method of appointment, whether by executive authority or by election by the people, or otherwise.
 2. As to the term of appointment, whether for life or for a term of years, or otherwise.
 3. As to a re-appointment or re-election and generally as to the filling of vacancies occasioned by death or otherwise.
 4. As to qualifications, whether by age, residence, possession of real or personal property or otherwise.
 5. As to limitation of the membership, and as to the numerical relation of the membership to that of the Lower House.
 6. As to provisions for dissolution, appeal to the electorate, conferences or additional appointments in case of disagreement between the Upper and Lower House.
 7. As to the operation of the various systems in the several Dominions and countries mentioned, and in what respect defects or difficulties have made themselves manifest.
 8. All other relevant information respecting the constitution and status of such Upper Chambers. Presented June 10, 1914. *Mr. Mulholland.*
- Printed for sessional papers only*
- 247.** Return to an Order of the House of the 1st April, 1914, for a return showing:—
1. What it has cost the Government for bottled and distilled water in Ottawa since January 1, 1912, to March 1, 1914.
 2. What it is costing the Government per day now for bottled and distilled water. Presented April 18, 1914. *Mr. Sears.* *Not printed.*
- 248.** Return to an Order of the House of the 11th February, 1914, for a copy of all papers, letters, telegrams, reports and other documents relative to the purchase of land from Joseph Fraser, in connection with the works at Cariboo Island, Pictou County, in the Public Works Department. Presented April 16, 1914. *Mr. MacDonald.* *Not printed.*
- 249.** Return to an Order of the House of the 21st May, 1913, for a copy of all correspondence exchanged during the year 1912, between Captain Belanger, commandant of the *Euroka* and the Department of Marine and Fisheries, both at Quebec and Ottawa. Presented April 16, 1914. *Mr. Boulay.* *Not printed.*
- 250.** Return to an Order of the House of the 23rd March, 1914, for a return showing:
1. The names of the wharfingers at Coteau Landing from 1900 to 1914.
 2. The names of the vessels which moored there during that period.
 3. What wharfage each of those vessels paid during that time.
 4. What wharfage a coaler paid for unloading between 1900 and 1912. Presented April 17, 1914. *Mr. Paquet.* *Not printed.*
- 251.** Return to an Order of the House of the 4th March, 1914, for a copy of all correspondence, letters, telegrams and documents in connection with the removal of ice in Yarmouth, N.S., harbour, by C.G.S. *Stanby* in February, 1914. Presented April 21, 1914. *Mr. Law.* *Not printed.*

CONTENTS OF VOLUME 25—Continued.

252. Report of the Royal Commission on Penitentiaries, together with the evidence taken and exhibits filed before the said commission. Presented by Hon. Mr. Doherty April 23 1914. Department of Justice. Printed for distribution and occasional papers.
253. Return to an Order of the House of the 10th March, 1914, for a return showing—
 1. How many professors, lecturers and inspectors the Department of Agriculture in the Province of Prince Edward Island?
 2. Their names, the salaries they receive and the travelling expenses of each.
 3. The dates of these professors, lecturers and inspectors?
 4. How many meetings were held or demonstrations given by each of these professors, lecturers and inspectors during the months of March, April, May, June, July, August, September and October last year?
 5. Where each meeting was held or demonstration given and how each was advertised?
 6. How many boxes, baskets and barrels of fruit were inspected last season, and the kinds of fruit so inspected?
 7. When and where the inspection took place and how many boxes, baskets and barrels were found to be improperly or falsely marked?
 8. Whether the Department received a resolution or petition from the Fruit Growers' Association of Prince Edward Island.
 9. If so, what prayer to request the said resolution or petition contained and what the Department has decided to do in regard to the matter?
 10. How many cheese and butter factories were operated in each of the counties of Prince Edward Island in the year 1913 and how many in the year 1914. Presented April 22 1914.—Mr. Egan, P.E.I. Not printed.
254. Return to an Order of the House of the 17th February, 1914, for a return showing—The freight rates charged during the years 1911 and 1912 on wheat from Fort William or Port Arthur to ports in the Georgian Bay and Canadian ports on Lake Huron and Lake Erie by the Canadian Pacific Steamship Line, the Northern Navigation Company, the Merchants' Mutual Line, John J. Loree, and the Canadian Lake Line. Presented April 24 1914.—Mr. Adams. Not printed.
255. Return to an Order of the House of the 31st March, 1914, for a copy of all letters, cables, telegrams, recommendations and documents of every kind in connection with the purchase of a Red Bank near Spring Point, Prince Edward Island. Presented April 27 1914.—Mr. Egan, P.E.I. Not printed.
256. Return to an Order of the House of the 1st February, 1914, for a copy of all papers, inventories, tenders and contracts, telegrams, correspondence, accounts, receipts, vouchers and in reference to the supply of means, hay, oats, and all other supplies for the 1913 summer and autumn drill at A. Berthel Camp, Nova Scotia. Presented April 27 1914.—Mr. Macdonald, Halifax. Not printed.
256. Return to an Order of the House of the 10th March, 1914, for a copy of all advertisements, tenders, contracts, documents, papers, etc. relative to the supply of ice for the A. Berthel Military Camp, N.S., for the season of 1914. Presented May 23 1914.—Mr. Macdonald, Halifax. Not printed.
257. Return to an Order of the House of the 1st April, 1914, for a Return showing—
 1. The total amount paid for pensions by the Department of Militia and Defence for the year ending Mar 31, 1914.
 2. The number of Militia officers at present on the pay-roll of the permanent corps.
 3. How many were soldiers are at present on the pay-roll of the permanent force?
 4. How many private soldiers formed the force during 1913?
 5. How many deserted during 1913?
 6. The gross amount expended by the Department of Militia and Defence for the salaries of officers and privates of every kind in the employ of the Department at Ottawa, the salaries during the fiscal year 1913-1914.
 7. The gross amount paid out for bonuses to the private soldiers of the permanent force in the said year 1913-1914. Presented April 17 1914.—Mr. Stedwin. Not printed.
258. Return to an Order of the House of the 6th February, 1914, for a copy of all letters, telegrams and exchanges between the Department of Militia and Messrs. A. MacDonald, E. Morrison and others, in connection with the crown grant of the 11th Hussars at Vanterville and Soldiers. Presented April 17 1914.—Mr. Stedwin. Not printed.
259. Return to an Order of the House of the 9th March, 1914, for a copy of all letters, telegrams, reports and other correspondence in possession of the Department of Militia and Defence, relating to the purchase of land in Farnham, Quebec, for a military camp ground. Presented April 17 1914.—Mr. Hoy. Not printed.
260. Return to an Order of the House of the 1st February, 1914, for a copy of all correspondence between the Department of Agriculture or the Department of Customs and C. S. Campbell, Esq., K.C., relating to the importation of purchased animals into Canada. Presented April 17 1914.—Mr. Hoy. Not printed.

CONTENTS OF VOLUME 28—*Continued.*

- 261.** Return to an Order of the House of the 2nd March, 1914, for a copy of all correspondence, letters, telegrams, and other documents relative to the immigration of Asiatics, including Hindus, Japanese and Chinese, which have a bearing either directly or indirectly upon the Order in Council passed by the Government during the month of 1913 restricting immigration into the Province of British Columbia. Presented April 27, 1914.—*Mr. Oliver* *Not printed*
- 262.** Return to an Address to His Royal Highness the Governor General of the 30th March, 1914, for a copy in duplicate of all leases, agreements, contracts, orders in Council and other documents relating to the water-power or privileges connected with the Stevens Dam, so-called, that had been constructed across the River Trent at the village of Campbellford, together with a copy in duplicate of a license in connection with said dam, granted to the Honorable James Cockburn and others on the 16th of December 9, 1869, and of all correspondence with and reports of the Minister of Justice at the time of the granting of said license and since that date, also a duplicate copy of all papers, correspondence, Orders in Council and other documents relating to the same, with a resolution, transmitted on an Order in Council in the case of the 12th of August, 1914, and of all correspondence, reports, orders, contracts, and other documents made by, to or with the Trent Valley Wooding Mill Company, or their agents, in the course of all correspondence with the Department of Justice, and of all documents relating thereto, also a duplicate copy of all correspondence, reports, Orders in Council and other documents referred to or mentioned in an Order in Council of the 17th of April, 1914, set forth on page W 328, in the third volume of the Appendix to the Report of the Commission on the Trent Valley Wooding Mill Company, and of all correspondence with the Commission, and any department of Government relating thereto, and of all documents referred to in the Report of the Commission, dated April 27, 1914.—*Mr. Power* *Not printed*
- 263.** Return to an Order of the House of the 2nd of March, 1914, for a copy of all contracts, deeds, contracts, &c., in connection with the purchase of the land of the Hon. Charles Messing of Quebec, of a stone quarry at St. N. de Bas, Quebec, in the P.A.M. No. 107.—*Mr. Lacombe* *Not printed*
- 264.** Return to an Order of the House of the 6th April, 1914, for a copy of all correspondence, telegrams and other papers of the Hon. Charles Messing of Quebec, of the Marine and Fisheries since January 1, 1914, relating to the Commission on the Marine Provinces of the United States, and of all correspondence, telegrams, &c., since April 29, 1914.—*Mr. Sinclair* *Not printed*
- 265.** Return to an Order of the House of the 21st February, 1914, for a copy of all contracts, deeds and contracts in connection with the purchase of the Dominion of the Province of a quarry station at Lévis, Quebec, and of all correspondence, telegrams, &c., since April 29, 1914.—*Mr. Lacombe* *Not printed*
- 266.** Copy of Order in Council dated 18th May, 1914, in connection with the Hon. Naval Volunteer Force. Presented by Hon. Mr. Huggin, May 2, 1914. *Not printed*
- 267.** Return to an Order of the House of the 4th March, 1914, for a copy of all papers, correspondence and telegrams concerning the acquisition of British Columbia's largest and finest in defiance of a writ of Habeas Corpus. Presented April 29, 1914.—*Mr. Power* *Not printed*
- 268.** Statement of receipts and expenditures of the National Health Commission, from the 1st March, 1914, as required by 78 Edward VII, chapter 57, section 42. Presented by Hon. Mr. White, May 4, 1914. *Not printed*
- 269.** Copy of the trust deed, dated 30th June, 1913, between the Canadian Northern Railway Company and the British Empire Trust Company, Limited, National Trust Company, Limited. Presented by Hon. Mr. Borden, May 4, 1914. *Not printed*
- 269^a** Copy of the trust deed, dated 6th May, 1913, between the Canadian Northern Railway Company and the British Empire Trust Company, and the National Trust Company, Limited. Presented by Hon. Mr. Borden, May 4, 1914. *Not printed*
- 269^b** Copy of the trust deed, dated 12th November, 1912, between the Canadian Northern Railway Company, Mackenzie, Mann & Co., Limited, and the British Empire Trust Company, and the National Trust Company, Limited. Presented by Hon. Mr. Borden, May 4, 1914. *Printed for distribution and sessional papers*
- 269^c** Statement showing the trading liabilities of the railway companies embraced in the general title of the Canadian Northern Railway System. Presented by Hon. Mr. Borden, May 4, 1914. *Not printed*
- 269^d** Statement of securities pledged as collateral to temporary loans of the Canadian Northern Railway System. Presented by Hon. Mr. Borden, May 4, 1914. *Not printed*

CONTENTS OF VOLUME 28—Continued.

- 269c.** Statement showing the engineer's estimate of the cost of completing the Canadian Northern Railway System. Presented by Hon. Mr. Borden, May 4, 1914.....*Not printed.*
- 269f.** Statement of capital stock authorized and issued, of the companies set out in the first schedule. Presented by Hon. Mr. Borden, May 6, 1914.....*Not printed.*
- 269g.** Approximate estimate of betterments for six years of the lines of the Canadian Northern Railway System. Presented by Hon. Mr. Borden, May 6, 1914.....*Not printed.*
- 269h.** Statements as on 31st December, 1913, bearing on the financing of the Canadian Northern Railway System. Presented by Hon. Mr. Borden, May 6, 1914.....*Not printed.*
- 269i.** Papers and statements in respect to the Canadian Northern Railway System:—
 1. Correspondence, including official application for aid.
 2. Detailed statements showing particulars of capitalization, earnings, cost to complete, &c. Presented by Hon. Mr. Borden, May 6, 1914.
Printed for distribution and sessional papers.
- 269j.** Copy of trust deed dated October 4, 1911.—The Canadian Northern Railway to the Guardian Trust Company, Limited, and the British Empire Trust Company, Limited, and His Majesty the King and the Canadian Northern Railway Company. Presented by Hon. Mr. Borden, May 7, 1914.....*Printed for distribution and sessional papers.*
- 269k.** List of companies whose total issued stock is owned by the Canadian Northern Railway Company; also, list of companies whose total issued stock is to be transferred to The Canadian Northern Railway Company; and also, list of companies in which the controlling interest is to be transferred to The Canadian Northern Railway Company. Presented by Hon. Mr. Borden, May 7, 1914.....*Not printed.*
- 269l.** Further statements bearing on the financing of the Canadian Northern Railway System. Presented by Hon. Mr. Borden, May 7, 1914.
Printed for distribution and sessional papers.
- 269m.** Correspondence and telegrams received from the premiers of the Provinces of Nova Scotia, British Columbia, Alberta, and the Acting Premier of Saskatchewan, in regard to the granting of aid to the Canadian Northern Railway System. Presented by Hon. Mr. Borden, May 7, 1914.....*Printed for distribution and sessional papers.*
- 269n.** Copy of trust deed dated 28th December, 1903.—The Lake Superior Terminals Company, Limited, and the National Trust Company, Limited, and the Canadian Northern Railway Company. Presented by Hon. Mr. Borden, May 11, 1914.....*Not printed.*
- 270.** Return to an Order of the House of the 20th April, 1914, for a copy of all letters, telegrams and other documents relating to the refusal of the Railway Department, or any official of the Intercolonial Railway to permit employees of the railway at Moncton to attend the militia camp in the last year. Presented May 6, 1914.—*Mr. Macdonald.*
Not printed.
- 271.** Return to an Order of the House of the 23rd March, 1914, for a copy of all correspondence received by the Government since October 1, 1911, to date, from John M. Cormick, of Sydney Mines, N.S., in reference to the following matters in the Riding of North Cape Breton and Victoria:—Railway extension into the Riding of North Cape Breton and Victoria; the opening of the harbour at Dingwall, Aspey Bay, C.B.; the breakwater at Meat Cove in the said Riding; the boat harbour at Bay St. Lawrence; the breakwater at White Point; the breakwater at Neil's Harbour; the breakwater at McLeod's, Ingonish; in respect to Ingonish Harbour; the breakwater at Breton Cove; the breakwater at Little Bras d'Or; the breakwater at Cape Dauphin; the breakwater at Point Aconi; the proposed wharf at North Sydney the proposed extension of the breakwater at North Sydney; the bringing of the Intercolonial Railway to the ballast ground at North Sydney; the wharf at Sydney Mines; the wharf at Leitches Creek; the repairs to the wharf at Groves Point; the rebuilding of the wharf at Boisdale; the breakwater at Jamesville; the wharf at Castle Bay, and the proposed wharf at Shenacadie. Presented May 7, 1914.—*Mr. McKenzie.*.....*Not printed.*
- 272.** Copy of all letters, documents and correspondence relating to action by the Government in regard to the relief of the shareholders and depositors of the Farmers Bank, and of the Order in Council appointing Sir William Meredith as Commissioner, and all correspondence in relation thereto. And also, Statement of Affairs, &c., relating to the Farmers Bank of Canada. Presented by Hon. Mr. White, May 8, 1914....*Not printed.*
- 273.** Return to an Order of the House of the 6th April, 1914, for a copy of all letters, telegrams and correspondence received by the Postmaster General in connection with complaints made that the postmaster at Yarmouth North, N.S., had been or is selling stamps outside his jurisdiction. Presented May 8, 1914.—*Mr. Law.*.....*Not printed.*
- 274.** Return to an Order of the House of the 9th February, 1914, for a return showing the number of criminals released on parole from the various penitentiaries of the Dominion for the year ending March 31, 1913; the offence for which each prisoner so released was convicted, and showing at the same time whether such offence was a first, second, or subsequent offence. Presented May 8, 1914.—*Mr. Sinclair.*.....*Not printed.*

CONTENTS OF VOLUME 28—Continued.

- 275.** Return to an Order of the House of the 9th March, 1914, for a return showing:—
 1. How many acres of public land have been given to railway companies in the Dominion of Canada by the Federal Government from 1878, to the present time?
 2. How many acres were granted in each year during the above period of time
 Presented May 11, 1914—*Mr. Tobin* *Not printed*
- 276.** Return to an Order of the House of the 2nd February, 1914, for a return showing the receipts and expenses of the post office at St Philippe, East, and of the post office at St. Philippe, West, in the parish of St. Philippe de Néri, since the first of June, 1912, to date. Presented May 11, 1914—*Mr. Lapointe (Kamowaska)* *Not printed*
- 277.** Report of the Dominion Wreck Commissioner in the matter of a formal investigation into the causes which led to the British steamer *Sataruia* touching the ground in the Lower Traverse, River St. Lawrence, on Tuesday, April 28, 1914. Presented by Hon. Mr. Hazen, May 12, 1914 *Printed for sessional papers only*
- 278.** Report of the Dominion Wreck Commissioner in the matter of a formal investigation into the causes which led to the stranding of the British steamer *Montfort*, on Beauport Bank, River St. Lawrence, on Tuesday, April 28, 1914. Presented by Hon. Mr. Hazen, May 12, 1914 *Printed for sessional papers only*
- 279.** Return to an Address to His Royal Highness the Governor General of the 2nd February, 1914, for a copy of the Order in Council appointing Arthur Plaunte, Esq., a Commissioner to receive claims against the Atlantic and Lake Superior Railway, the Baie des Chaleurs Railway and the Quebec Oriental Railway, and of the report of said Commissioner and of the statement of claims accepted and those rejected by him, with the reasons therefor, as well as of all correspondence, memorials, petitions and documents, generally bearing on said subject. Presented May 12, 1914—*Mr. Maréchal (Bonaventure)* *Not printed.*
- 279a.** Supplementary Return to an Address to His Royal Highness the Governor General of the 2nd February, 1914, for a copy of the order in Council appointing Arthur Plaunte, Esq., a Commissioner to receive claims against the Atlantic and Lake Superior Railway, the Baie des Chaleurs Railway and the Quebec Oriental Railway and of the report of said Commissioner and of the statement of claims accepted and those rejected by him, with the reasons therefor, as well as of all correspondence, memorials, petitions and documents, generally bearing on said subject. Presented May 22, 1914—*Mr. Maréchal (Bonaventure)* *Not printed.*
- 280.** Return to an Order of the House of the 6th April 1914, for a copy of all correspondence, accounts, indemnities, travelling expenses, &c., from Fraserville to Quebec, and of all other documents relating to the amount of money received each year by His Honour Mr. Justice Ernest O'Neil, from 1899 to 1913, as Judge of the Superior Court sitting at Quebec, during the time he was connected with the District of Kamouraska. Presented May 16, 1914—*Mr. Gauthier* *Not printed.*
- 281.** Report of the delegates appointed by the Government of Canada to attend the "International Purity Congress," held in the city of Minneapolis, Minn., November 7-12, 1913. Presented by Hon. Mr. Borden, May 16, 1914 *Not printed.*
- 282.** Agreement between the Government and steamship companies for mail carriage between Canadian and European ports.—(*Senate*) *Not printed.*
- 283.** Return to an Order of the House of the 15th April, 1914, for a return showing:
 1. How many passengers have been carried over the Intercolonial Railway from St. John to Halifax, and from Halifax to St. John, respectively, under the agreement made on the 30th September, 1913, between the Canadian Government Railways by F. P. Gutelius, General Manager and the Canadian Pacific Railway Company, by G. M. Rosworth, General Traffic Manager, from the 15th November, 1913, when the said agreement went into effect, to the 31st March last?
 2. How many tons of freight of each of the classes mentioned in said agreement have been carried each way over the Intercolonial Railway between St. John and Halifax, under said agreement during said period?
 3. What have been the total earnings by the Intercolonial Railway under said agreement up to the 31st March last, for passengers and freight carried, respectively?
 4. What amount has been paid to or earned by the Canadian Pacific Railway for car hire under said agreement?
 5. What number of empty cars of the Canadian Pacific Railway Company have been hauled by the Intercolonial Railway free under said agreement, and what has been the cost of such haulage?
 6. What would have been the total amount paid by the Canadian Pacific Railway Company to the Intercolonial Railway, under the tariff prevailing at the time of the making of said agreement, for the passengers and the freight so carried, respectively?
 7. Whether the said agreement has been submitted, as promised by the Government, to the Board of Railway Commissioners by the Minister of Railways for the purpose of having the Board determine as to whether or not said agreement is discriminatory against the port of St. John. If not, why was it not so submitted?

CONTENTS OF VOLUME 28—*Continued.*

8. If it is the intention of the Minister of Railways to renew the said agreement, or to put in force a similar agreement, during the next Winter Port season.
9. What agreement the Government intends to make as to the Atlantic termini of the fast Atlantic mail steamers for the winter of 1914-1915. Presented May 22, 1914.—*Mr. Pausley* *Not printed.*
284. Return to an Order of the Senate dated 15th May, 1914:—
1. How many judges have been retired since 1880?
 2. What are their names?
 3. What salary did they receive in each case?
 4. How many years did they serve in each case?
 5. What was the reason given for their retirement?
 6. How much did they receive for retirement allowance each year in each case?
- Ordered, that the same do lie on the table, and it is as follows.—(*Senate*).
Not printed.
285. Return to an Address to His Royal Highness the Governor General of the 9th March, 1914, for a copy of all petitions, letters, telegrams and documents by any and all parties to and by the Department of Railways and Canals, or any other Department of the Government, with reference to the Southampton Railway Company, also of all reports of engineers and recommendations regarding a subsidy to the said railway, and of all Orders in Council granting same, and of all other documents and memoranda in the possession of the Department of Railways and Canals or other Departments of the Government regarding the said railway. Presented May 27, 1914.—*Mr. Carroll*.
Not printed.
286. Return to an Order of the House of the 2nd February, 1914, for a copy of all correspondence, papers, documents, contracts, &c., between the Government of Canada and any company, firm or individuals from May 1, 1913, to December 1, 1913, referring to the establishment of a subsidized steamship service between Canada and the British West Indies. Presented May 27, 1914.—*Mr. Maclean (Halifax)* *Not printed.*
287. Return to an Order of the House of the 4th May, 1914, for a copy of all papers, letters, telegrams, accounts and receipts concerning advances made to the Montagnais Band of Indians through the agency of Seven Islands, Quebec. Presented May 29, 1914.—*Mr. Lemieux* *Not printed.*
288. Return to an Order of the House of the 11th May, 1914, for a copy of all papers, letters, telegrams, accounts and receipts, concerning advances or payments made by the Government to Newton Wesley Rowell, K.C., for legal services in connection with the Ojib Indian litigation. Presented May 29, 1914.—*Mr. Sharpe (Ontario)* *Not printed.*
- 288a. Return to an Order of the House of the 6th May, 1914, for a return showing:—
1. Whether the Government paid Newton Wesley Rowell, K.C., any sums of money for legal services during the past fifteen years?
 2. If so, the amounts and when?
 3. Whether the Government paid the firm of which Mr. Rowell is the senior partner any sums of money for legal services?
 4. If so, the amounts and in what years? Presented May 29, 1914.—*Mr. Sharpe (Ontario)* *Not printed.*
289. Return to an Order of the House of the 20th April, 1914, for a return showing:—
1. The date of the incorporation of the Canadian National Bureau of Breeding, Limited, with the names, addresses and occupations of the charter members of said Company.
 2. The amount of capital of the Company and the number of shares into which it is divided.
 3. The number of shares taken from the commencement of the Company up to the date of the return.
 4. The amount of calls made on each share, the total amount of calls received, the total amount of calls unpaid, and the total number of shares forfeited.
 5. The names, addresses and occupations of the persons who have ceased to be members within the twelve months next preceding, and the number of shares held by each of them.
 6. The amount of money paid to said Company by the Government in each year since incorporation. Presented May 29, 1914.—*Mr. Sutherland* *Not printed.*
290. Return to an Order of the House of the 9th February, 1914, for a copy of all reports made by the inspectors of agents for placing farm labourers and domestic servants in Canada during the calendar years 1912 and 1913. Presented May 29, 1914.—*Mr. Sutherland*.
Not printed.
291. Return to an Order of the House of the 2nd March, 1914, for a return showing all the buildings, houses, offices and immovables, occupied by the Federal Government in Montreal, for the use of the various Departments and services of each branch of the administration, together with the following information in each case; for what Department and for what service; where situated, street and number thereof; whether Government property or under lease; in the latter case, the length of lease, the rent per annum and also the other charges that may be imposed upon the Government. Presented June 4, 1914.—*Mr. Wilson (Laval)* *Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

292. Return to an Order of the House of the 14th May, 1914, for a copy of all correspondence exchanged by and with the Department of Public Works or the Post Office Department, relating to an application or applications for a post office building at the town of Melville, Province of Saskatchewan. Presented June 4, 1914.—*Mr. MacNutt* *Not printed.*
293. Memorandum, correspondence, estimates of cost, &c., in connection with the construction of the Grand Trunk Pacific Railway Mountain Section. Presented by Hon. Mr. Borden, June 4, 1914 *Not printed.*
294. Return to an Order of the House of the 4th February, 1914, for a return showing the names and addresses of the people with whom pure bred animals have been placed by the Department of Agriculture, the breed in each case, and the conditions on which these animals were placed. Presented June 5, 1914. — *Mr. Kay* *Not printed.*
295. Return to an Order of the House of the 30th March, 1914, for a copy of all correspondence, telegrams, instructions, accounts, vouchers and other papers and documents relating to the purchase of live stock in the Maritime Provinces by one Howard Corning of Yarmouth, N.S., during the period of his employment, also a copy of the appointment of the said Howard Corning and of all correspondence, complaints and other documents relating to the dismissal of the said Howard Corning, if he has been dismissed or retired from the service, together with a copy of all recommendations, correspondence and other papers relating to the appointment of the said Howard Corning's successor. Presented June 5, 1914. — *Mr. Snelton* *Not printed.*
296. Return to an Order of the House of the 19th March, 1914, for a return showing —
 1. How many pure bred stallions and bulls have been purchased by the Department of Agriculture for the use of settlers in the Provinces of Manitoba, Saskatchewan and Alberta since the first of January, 1912, to date?
 2. Where these animals were purchased, and from whom, and also the price paid for them respectively. Presented June 5, 1914. — *Mr. Douglas* *Not printed.*
297. Return to an Order of the House of the 3th February, 1914, for a copy of all correspondence, including letters, telegrams and accounts, regarding the purchase and disposal during year 1913, of all horses, cattle, sheep and swine for the Department of Agriculture, Province of Quebec for Experimental Farms, or for the improvement of stock, together with a return showing the commission and fees paid, and to whom paid, for and on account of said purchases. Presented June 8, 1914. — *Mr. Robb* *Not printed.*
298. Return to an Address to His Royal Highness the Governor General of the 2th February, 1914, for a copy of all arrangements made between the Government and the various Provinces under the Agricultural Instructio Act. Presented June 10, 1914. — *Sir Wilfred Laurier* *Not printed.*
299. Partial Return to an Address to His Royal Highness the Governor General of the 14th March, 1914, for a copy of all correspondence, telegrams, petitions, Orders in Council, and other papers and documents, relating to subventions or assistance given, or to be given, by the Department of Marine and Fisheries or the Department of Agriculture to firms or joint stock companies, or persons operating cold storage plants for the preservation of fish products in Nova Scotia during the years 1908, 1909, 1910, 1911, 1912 and 1913, excluding such correspondence, &c., as relates to companies known as Fishermen's But Association. Presented June 10, 1914. — *Mr. Sinclair* *Not printed.*
300. Copy of Order in Council No. P.C. 1386, of the 29th May, 1914, concerning the regulations governing the Radiotelegraph administration. Presented by Hon. Mr. Hazen, June 11, 1914 *Not printed.*
- 300a. Copy of regulations governing Radiotelegraphy promulgated under section 11, Radiotelegraph Act, 1913. Presented by Hon. Mr. Hazen, June 11, 1914 *Not printed.*
301. Return to an Order of the House of the 27th April, 1914, for a copy of all letters, tenders, telegrams, plans, specifications and other documents in regard to the construction of the new ice breaker by the Canadian Vickers Company of Montreal. Presented June 11, 1914. — *Mr. Macdonald* *Not printed.*
302. Return to an Address to His Royal Highness the Governor General of the 16th March, 1914, for a copy of all petitions, letters, affidavits, telegrams and documents to and by the Department of Justice, or any other Department of Government, on behalf of or in reference to Wm. J. Kelley, a prisoner in the United States Federal prison at Atlanta, Ga., and of all the letters, telegrams and other memoranda between the Department of Justice, or any other Department of the Government, and the British Ambassador at Washington, or the Government of the United States, regarding the imprisonment and proposed liberation of the said Wm. J. Kelley. Presented June 12, 1914. — *Mr. Campbell* *Not printed.*

REPORTS, RETURNS AND STATISTICS

OF THE

INLAND REVENUES

OF THE

DOMINION OF CANADA

FOR THE YEAR ENDED MARCH 31

1913

PART I -- EXCISE

PRINTED BY ORDER OF PARLIAMENT



OTTAWA

PRINTED BY C. H. PARMELEE, PRINTER TO THE KING'S MOST
EXCELLENT MAJESTY

1913

To His Royal Highness, Field Marshal Prince Arthur William Patrick Albert, Duke of Connaught and Strathearn, K.G., K.T., &c., &c., &c., Governor General and Commander-in-Chief of the Dominion of Canada.

MAY IT PLEASE YOUR ROYAL HIGHNESS :

I have the honour to transmit to Your Excellency the RETURNS AND STATISTICS of Inland Revenue of the Dominion of Canada, for the year ended March 31, 1913, as prepared and laid before me by the Deputy Minister of Inland Revenue.

All of which is respectfully submitted.

W. B. NANTEL,
Minister of Inland Revenue.

EXPENDITURES—(APPENDIX B.)

	Inside Service.	Excise.	Weights and Measures.	Gas.	Electric Light.	Adulteration of Food.
	Page.	Page.	Page.	Page.	Page.	Page.
SALARIES.						
Paid to each Officer employed in collecting Revenue, &c.						
SUPERANNUATION.						
How much deducted from each Officer's salary, &c.						
INSURANCE FEES.						
How much deducted from each Officer's salary, &c.	158	128	163	170	175	155
RETIREMENT.						
How much deducted from each Officer's salary, &c.						
CONTINGENCIES.						
Authorized by the Department for office rent, fuel, travelling expenses, &c.						

	Pages.
Distribution of Seizures, &c.	152
List of persons employed during the year ended March 31, 1913, &c.	179
" " " " a portion of the year ended March 31, 1912, &c.	188



REPORT

OF THE

DEPUTY MINISTER OF INLAND REVENUE

To the Hon. W. B. NASTEL,
Minister of Inland Revenue.

SIR,—Herewith I have the honour to submit statements of the Inland Revenues collected by this department during the Fiscal year ended March 31, 1913, with the usual information as to the cost of collections, and statistics respecting the sources whence these revenues were derived.

The following summary comparison shows the accrued revenue for the Fiscal Years ended March 31, 1909, 1910, 1911, 1912 and 1913.

	1909.	1910.	1911.	1912.	1913.
	£	£	£	£	£
Excise.....	15,084,589	15,283,665	16,919,553	19,306,069	21,487,918
Ferry Licenses.....	4,436	553	474	1,024	529
Weights and Measures, Gas and Law Stamps.....	136,128	156,460	151,229	163,958	171,509
Electric Light.....	43,846	46,316	59,583	66,060	74,833
Other Revenues.....	4,552	4,571	20,837	5,669	7,501
Methylated Spirits.....	49,960	71,464	90,999	93,083	118,977
Totals.....	15,323,511	15,563,029	17,242,675	19,635,863	21,860,367

DETAILS of Excise Revenue accrued during the undermentioned Fiscal Years :

	1	2	3	4	5
	1909	1910	1911	1912	1913
		\$	\$	\$	\$
Spirits.....	6,950,589	7,169,760	7,913,376	8,667,666	9,474,142
Malt Liquor.....	17,628	27,314	52,893	86,756	149,437
Malt.....	1,396,007	1,434,004	1,529,472	1,716,547	1,864,525
Tobacco.....	5,964,005	6,067,599	6,784,140	8,130,776	9,192,181
Cigars.....	626,059	432,539	470,197	517,646	602,269
Acetic Acid.....	3,841	6,037	10,242	11,300	10,526
Manufactures in bond.....	71,669	77,811	77,840	84,729	91,460
Seizures.....	3,948	3,051	5,605	2,319	2,062
Other receipts.....	50,843	65,549	75,789	90,659	102,324
Methylated spirits.....	49,960	71,464	90,999	93,083	118,077
Totals.....	15,134,549	15,355,128	17,010,553	19,401,472	21,607,003

The quantity of spirits produced during the Fiscal Year was 6,458,452 proof gallons, as compared with 4,784,396 proof gallons produced in the previous Fiscal Year. The raw material taken for use, in the production of spirits, during the Fiscal Year was as follows :—

	Lbs.
Malt.....	6,637,629
Indian corn.....	63,048,555
Rye.....	11,696,490
Wheat.....	3,026,065
Oats.....	620,594
Barley.....	
Rice.....	
Molasses.....	26,885,496

The transactions of the several distilleries will be found stated in detail in Appendix A (Statement No. 3), pages 66 and 67.

	Proof galls.
There was on April 1, 1912, in process of manufacture.....	326,360
Manufactured during the Fiscal Year.....	6,458,452
Returned to distilleries for re-distillation—Duty paid.....	456
“ “ “ In bond.....	639,109
	<u>639,565</u>
Received into distilleries from other sources—Duty paid.....	10,166
“ “ “ In bond.....	
Total.....	<u>7,434,543</u>

SESSIONAL PAPER No. 12

This was disposed of as follows :

	Proof Galls.
Placed in warehouse	6,993,602
Fusel oil written off	12,721
Deficiency arising from rectification	2,508
Remaining in process of manufacture March 31, 1913, by actual stock taking	425,712
Written off	—
Total	7,134,543

SPIRITS :—

The following statement shows the warehousing transactions in spirits during the Fiscal Year ended March 31, 1913, and the four preceding Fiscal Years.

Fiscal Years	1	2	3	4	5	6	7	8	9
	In Warehouse at be- ginning of year, including transits.	Warehoused during the year. Exclis- tillery.	Otherwise Ware- housed.	Taken for consump- tion.	Exported.	Used in Bonded Factories.	Otherwise accounted for.	For redistillation	In Warehouse at end of year, including transits.
	Pf. Galls.	Pf. Galls.	Pf. Galls.	Pf. Galls.	Pf. Galls.	Pf. Galls.	Pf. Galls.	Pf. Galls.	Pf. Galls.
1908-1909	20,075,772	6,357,351	110,193	3,627,266	311,314	419,555	249,066	1,082,806	20,853,219
1909-1910	20,853,219	6,807,443	64	3,777,156	361,934	557,401	330,943	1,158,519	21,465,073
1910-1911	21,465,073	6,915,918	151,628	4,146,452	273,963	455,598	413,562	781,819	21,569,925
1911-1912	21,569,925	5,412,398	29,394	4,562,382	298,769	347,714	519,681	604,837	20,669,334
Totals	83,955,589	24,592,210	291,189	16,113,256	1,245,980	1,780,268	1,512,352	3,637,981	84,549,151
Average	20,988,897	6,148,053	72,797	4,028,314	311,495	445,067	378,088	909,495	21,137,288
1912-1913	20,669,334	6,993,602	263	4,969,937	333,802	440,826	581,365	439,409	20,648,169

The foreign demand for Canadian distillery products is slightly greater than the average of the last four years, the quantities exported being as follows :

	Proof Galls.
1908-1909	311,314
1909-1910	361,934
1910-1911	273,963
1911-1912	298,769
1912-1913	333,802

The following statement shows the entire quantities of spirits upon which duties were collected during the several Fiscal years recited therein To accord with the figures shown in Financial Statement No. 12, pages 20 and 21 :—

Fiscal Years.	Canadian Spirits.		Imported Spirits used in Bonded Factories.	Total quantities upon which duty was collected.	Memorandum of Revenue accrued, including License Fees.
	Paid duty Ex-distillery.	Paid duty Ex warehouse.			
	Pf. Gallons.	Pf. Gallons.	Pf. Gallons.	Pf. Gallons.	\$
1908-1909.....	19,201	3,627,266	109,885	3,756,352	6,950,589
1909-1910.....	5,280	3,777,156	.....	3,782,436	7,169,760
1910-1911.....	7,058	4,146,452	151,387	4,304,897	7,913,376
1911-1912.....	9,317	4,534,785	27,597	4,571,699	8,667,666
Totals.....	40,856	16,985,659	288,869	16,415,384	30,701,391
Average.....	10,214	4,021,415	72,217	4,103,846	7,675,348
1912-13.....	2,508	4,999,937		5,002,445	9,474,142

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MALT :

The following statement shows the transactions in Malt during the Fiscal Year ended March 31, 1913, and the four preceding Fiscal Years :—

Fiscal Year.	1		2		3		4		5		6		7		8		9		
	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	
1908-1909	41,515,249	95,453,618	1,220,392	618,025	92,631,306	378,290	3,276,370	42,522,038	1,396,007										
1909-1910	42,522,038	90,559,016	2,257,528	930,207	95,166,131	425,600	3,663,615	36,993,410	1,431,004										
1910-1911	36,993,410	100,086,532	3,073,837	839,065	101,525,430	551,500	2,726,584	36,389,330	1,529,472										
1911-1912	36,389,330	115,793,325	613,382	810,372	111,029,523	294,800	2,617,187	36,634,900	1,716,517										
Totals	157,420,057	401,897,552	7,145,130	3,198,239	463,352,666	1,650,400	12,113,586	152,539,708	6,076,630										
Average	39,355,014	100,473,088	1,786,285	799,560	100,838,068	412,525	3,028,397	38,131,927	1,519,007										
1912-1913	36,634,900	118,674,161	984,235	5,001,022	123,920,667	198,800	2,911,677	34,262,234	1,861,525										

Fiscal Year.

In Warehouse at beginning of year, including transits.

Manufactured during the year.

Imported.

Increase by absorption.

Taken for consumption.

Exported.

Otherwise accounted for.

In Warehouse at end of year including transits.

Memorandum of Revenue, including License Fees.

TOBACCO :

The following statement shows the transactions during the Fiscal Year ended March 31, 1913, and the four preceding Fiscal Years, respectively, in Tobacco, Snuff and Cigarettes.

Fiscal Year.	1	2	3	4	5	6	7	8	9	10	11
	In Warehouse at beginning of year, including transits.	Manufac-tured during the year.	Taken for con-sumption.	Exported.	Otherwise accounted for.	In Warehouse at end of year, including transits.	Raw Leaf taken for con-sumption.	Canadian Twist taken for con-sumption.	Total Tobacco taken for con-sumption.	Other Materials taken for con-sumption.	Duty collected thereon in-cluding License Fees.
	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	£
1908-1909	1,594,918	17,978,589	18,268,135	102,963	32,084	1,170,325	13,530,827	19,844	31,818,806	1,073,732	5,964,005
1909-1910	1,170,325	19,462,170	19,293,891	29,270	50,421	1,258,333	13,729,875	20,673	33,044,439	1,269,027	6,067,569
1910-1911	1,258,933	20,353,883	20,641,947	37,071	8,110	927,688	15,012,704	19,181	35,673,832	1,123,383	6,784,140
1911-1912	927,688	23,557,145	23,749,939	5,790	10,338	718,766	17,491,373	17,098	41,258,410	1,372,144	8,130,776
Totals	4,951,864	81,353,787	81,353,912	175,074	100,953	4,075,712	50,764,779	76,796	141,795,487	4,838,286	26,946,590
Average	1,237,966	20,338,447	20,488,478	43,769	25,238	1,018,928	14,941,195	19,199	35,448,872	1,209,572	6,736,630
1912-1913	718,796	25,763,480	25,287,332	4,519	26,630	1,103,765	19,232,231	17,335	44,537,098	1,615,596	9,192,181

CIGARS :
 The following statement shows the transactions in Cigars during the Fiscal Year ended March 31, 1913, and the four preceding Fiscal Years.

Fiscal Year.	1	2	3	4	5	6	7	8
	In Warehouse at beginning of year, including transits.	Mann. factured during the year.	Assessment to bring production up to Standard.	Taken for consumption.	Exported.	Otherwise accounted for.	Warehouse at end of year, including transits.	Duty collected thereon, including License Fees.
	No.	No.	No.	No.	No.	No.	No.	%
1908-1909.....	32,991,835	186,419,115	7,681	192,165,371	.....	44,450	27,271,840	626,659
1909-1910.....	27,271,840	201,285,506	36,795	205,820,851	10,000	.....	25,754,380	432,539
1910-1911.....	25,754,380	227,498,932	10,225	227,585,692	17,000	.....	25,660,915	470,197
1911-1912.....	25,660,915	248,406,634	128,468	252,718,242	15,000	22,625	21,940,450	517,646
Totals.....	111,678,970	867,110,607	183,239	878,230,156	51,000	61,075	100,627,585	2,046,111
average.....	27,919,732	216,777,652	45,810	219,557,539	12,750	16,019	25,156,896	511,616
1912-1913.....	21,940,450	297,792,383	383,922	291,772,933	10,100	22,500	25,281,222	602,260

The revenue derived from goods manufactured in bond during the Fiscal Year ended March 31, 1913, and the four preceeding Years, was as follows :—

1908-1909	\$71,669
1909-1910	77,811
1910-1911	77,840
1911-1912	84,720
1912-1913	91,460

ACETIC ACID :—

The revenue derived from Acetic Acid during the Fiscal Year ended March 31, 1913, and the four preceeding Fiscal Years, was as follows :—

1908-1909	\$ 3,841
1909-1910	6,037
1910-1911	10,242
1911-1912	11,300
1912-1913	10,526

INSPECTION OF PETROLEUM :—

The quantity of Petroleum and Naphtha inspected during the Fiscal Year was as follows :—

	Galls.
Petroleum.....	22,485,437.34
Naphtha	6,880,761.85
Total.....	29,366,199.19

WEIGHTS AND MEASURES GAS AND ELECTRIC LIGHT :—

The usual special reports in relation to these services have been prepared, containing all statistical information.

The aggregate revenue accrued from these services was \$238,442.67 the cost of the three services being \$224,345.53.

PREVENTION OF ADULTERATION OF FOOD AND AGRICUTURAL FERTILIZERS :—

The usual supplementary report in relation to this service will be submitted, containing details of the work done and the report of the chief analyst.

METHYLATED SPIRITS :—

The quantity of methylated spirits manufactured during the Fiscal Year was 247,760.10 proof gallons, and the sales 244,708.17 poof gallons. A statement details appears on page 60, 61 and 126.

The price of this denatured alcohol is practically the actual cost of manufacture and is as follows :—

Grade No 1. "Standard",—When consigned to points East of Toronto and West of Quebec, both inclusive, 65c. per Imperial gallon ; when consigned to points beyond Toronto and Quebec, 63c. per Imperial gallon.

Grade No. 1. "Benzine".—When consigned as above 55c. and 53c. per Imperial gallon respectively.

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Grade No. 2. "Standard",—75c. per Imperial gallon.

Grade No. 2, "Coloured",—60c. per Imperial gallon.

APPENDIX **A** shows the consumption of, and revenue derived annually from spirits, tobacco and other goods subject to Excise, and of similar goods subject to duties of Customs, per head, of the population of the Dominion.

APPENDIX **B** contains, as usual, the details concerning illicit stills seized during the year.

APPENDIX **C** shows the amounts of Excise Revenue collected at each Out-Office and under various headings, separately.

I have the honour to be, sir,

Your obedient servant,

W. HIMSWORTH,

Deputy Minister.

INLAND REVENUE DEPARTMENT,

OTTAWA, June 1, 1913.

APPENDIX A.

TABLE showing the Annual Consumption per head of the undermentioned articles paying Excise and Customs Duties, and the Revenue per head derived annually.

Years.	Dominion of Canada.									
	Quantity.					Duty.				
	Spirits. Galls.	Beer. Galls.	Wines. Galls.	Tobacco. Lbs.	Petroleum. Galls.	Spirits. \$	Beer. \$	Wines. \$	Tobacco. \$	Petroleum. \$
1869.....	1 124	2 290	115	1 755	575	761	092	037	193	041
1870.....	1 434	2 163	195	2 190	1 103	962	085	049	259	061
1871.....	1 578	2 490	259	2 052	1 591	1 059	095	056	336	077
1872.....	1 723	2 774	257	2 481	1 302	1 160	108	070	422	076
1873.....	1 682	3 188	238	1 999	1 387	1 135	120	066	350	084
1874.....	1 994	3 012	288	2 566	1 618	1 363	119	086	442	103
1875.....	1 394	3 091	149	1 995	1 589	1 127	114	069	428	098
1876.....	1 204	2 454	177	2 316	1 360	1 182	098	075	513	105
1877.....	975	2 322	096	2 051	1 103	949	109	057	446	084
1878.....	960	2 169	096	1 976	.....	927	147	052	439	.....
1879.....	1 131	2 209	104	1 954	.....	1 065	125	057	449	.....
1880.....	715	2 248	077	1 936	.....	772	081	055	428	.....
1881.....	922	2 293	099	2 035	.....	990	081	073	443	.....
1882.....	1 009	2 747	120	2 150	.....	1 084	098	092	485	.....
1883.....	1 090	2 882	135	2 280	.....	1 186	103	097	473	.....
1884.....	998	2 924	117	2 476	.....	1 074	104	082	365	.....
1885.....	1 126	2 639	109	2 623	.....	1 198	111	074	393	.....
1886.....	711	2 839	119	2 052	.....	1 007	091	074	502	.....
1887.....	746	3 084	095	2 062	.....	1 045	100	066	514	.....
1888.....	645	3 247	094	2 093	.....	944	110	066	509	.....
1889.....	776	3 263	097	1 153	.....	1 107	114	068	529	.....
1890.....	883	3 360	101	2 143	.....	1 257	121	072	539	.....
1891.....	745	3 790	111	2 292	.....	1 094	137	080	590	.....
1892.....	701	3 516	101	2 291	.....	1 156	211	075	680	.....
1893.....	740	3 485	094	2 314	.....	1 235	218	070	691	.....
1894.....	742	3 722	089	2 264	.....	1 235	205	060	683	.....
1895.....	666	3 471	090	2 163	.....	1 124	161	056	645	.....
1896.....	623	3 528	070	2 120	.....	1 159	164	047	639	.....
1897.....	723	3 469	084	2 243	.....	1 341	213	041	671	.....
1898.....	536	3 808	082	2 358	.....	1 306	126	041	615	.....
1899.....	661	3 995	086	2 174	.....	1 367	174	045	841	.....
1900.....	701	4 364	085	2 300	.....	1 455	185	044	853	.....
1901.....	757	4 680	099	2 375	.....	1 574	195	047	864	.....
1902.....	786	5 035	090	2 371	.....	1 631	211	048	902	.....
1903.....	848	4 592	094	2 483	.....	1 766	200	049	967	.....
1904.....	917	4 739	092	2 664	.....	1 913	217	049	1 005	.....
1905.....	895	5 123	093	2 768	.....	1 898	214	049	1 036	.....
1906.....	898	5 484	095	2 898	.....	1 879	238	052	1 100	.....
*1907 (nine months).....	977	5 765	095	3 018	.....	2 035	257	054	1 317	.....
1908.....	939	6 146	102	3 066	.....	1 965	268	057	1 194	.....
1909.....	860	5 708	091	3 105	.....	1 794	241	050	1 101	.....
1910.....	883	5 713	105	3 183	.....	1 843	242	057	1 059	.....
1911.....	948	5 999	114	3 323	.....	1 988	257	059	1 157	.....
1912.....	1 030	6 598	114	3 679	.....	2 170	288	063	1 336	.....
1913.....	1 112	7 005	131	3 818	.....	2 340	320	076	1 462	.....
Average.....	967	3 765	119	2 392	.....	1 316	161	061	686	.....

° Calculated on basis of a month.

W. HIMSWORTH,

Deputy Minister.

INLAND REVENUE DEPARTMENT.

OTTAWA, June 1, 1912.

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APPENDIX B.

STATEMENT of Seizures of Illicit Manufactures for the year ended March 31, 1913.

Division.	No.	Date.	Names.	Residence.	Schedule Value.	Remarks.
Winnipeg.	68	June 11, 1912.	H. Cohen.	Winnipeg.	8 cts. 231 60	
Quebec.	630	January 14, 1913.	Paul Sirois.	Quebec, Ste Anne de la Poutiere	4 28	Fine \$100 imposed and paid

INLAND REVENUE DEPARTMENT,

OTTAWA, June 1, 1913.

W. HENSWORTH,
Deputy Minister.

SESSIONAL PAPER No. 12

	200 00	1,341 67	293,454 35	6,271 26	80 38	300,005
Sherbrooke.....	50 00	1,341 67				1,301 7
Three Rivers.....	50 00	8,569 30				8,619 00
La Tuque.....	50 00	7,211 29				7,261 29
Louisville.....	50 00		2,182 50			2,232 50
St. Boniface.....	50 00		201 20			251 20
St. Yrie.....	50 00					
Shawinigan.....						
Bathurst.....						
Chamblé.....						
Chatham.....						
Clair.....						
Fredericton.....						
Moncton.....						
Newcastle.....						
Sackville.....						
St. Stephens.....	50 00	1,342 71	165 50			1,559 21
Sussex.....	50 00		612 00			662 00
Amberst.....						
Lamontang.....						
Fairborough.....	50 00		1,490 20			1,540 20
Trento.....						
Weymouth.....						
Windsor.....						
Yarmouth.....	50 00		873 04	767 95		1,690 99
Antigonish.....						
New Glasgow.....						
North Sydney.....	250 00	6,543 27	78 42	165 75		7,067 44
Georgetown.....						
Souris.....						
Stamerside.....						
Brandon.....	350 00	71,978 44	256 10	14,092 50	3,060 36	93,338 78
Dauphin.....	50 00	8,106 40				8,156 40
Morden.....	100 00	5,137 81				5,237 81
Portage la Prairie.....	150 00	29,441 25				29,899 01
Selkirk.....	50 00	2,801 76		987 56		2,851 76
Verdon.....	50 00	7,776 50				7,826 56
Winnipeg.....	50 00	17,701 37				17,751 57
Calgary.....	800 00	170,105 05	12,025 70	2,038 80	116 00	210,971 88
Edmonton.....	50 00	1,756 60				1,806 60
Fort Saskatchewan.....	50 00	1,363 15				1,413 15
Hugh River.....	50 00	11,984 95				12,034 98
Lacombe.....	325 00	30,410 91	19,250 40	1,545 88		50,207 29
Beaumont.....	100 00	16,272 70				17,032 24
Medicine Hat.....	50 00	595 84				618 84
Puncher Creek.....	50 00					50 00
Red Deer.....	100 00	925 01				1,025 01
Strathcona.....	50 00	1,020 30				1,070 30
Taber.....	50 00	2,245 37				2,295 37
Vermilion.....	50 00	11,533 86				11,583 86
Wetaskiwin.....						

FINANCIAL RETURNS, 1912-1913

CR.

DR. No. 1.—GENERAL REVENUES ACCOUNT FOR THE YEAR ENDED MARCH 31, 1913.

Memo of Refunds deducted below.	Amounts deposited to the credit of the Receiver General.	Balances due March, 31, 1913.	Totals.	Services.	Revenues of previous years not collected April 1, 1912.	Revenues accrued 1912-1913.	Totals.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
157,034 27	21,488,464 30	21,294 47	21,509,758 77	Excise and Seizures, per Statement No. 3	19,777 20	21,480,981 57	21,509,758 77
10 48	102,197 62	257 67	102,365 29	Weights and Measures, per Statement Nos. 18 A and 18 B	92 72	102,272 57	102,365 29
1 50	62,747 40	.....	62,747 40	Gas Inspection, per Statement No. 20	.....	62,747 40	62,747 40
.....	75,343 55	.....	75,343 55	Electric Light Inspection, per Statement No. 22	.....	75,343 55	75,343 55
.....	7,901 05	.....	7,901 05	Liquor Stamps, per Statement No. 8	.....	7,901 05	7,901 05
12 00	3,518 00	45 01	3,518 00	Bill Stamps, per Statement No. 7	45 01	.....	45 04
.....	118,077 77	.....	118,077 77	Sundry Minor Revenues, per Statement No. 9	.....	3,518 00	3,518 00
.....	784 00	1,833 62	2,617 62	Methylated Spirits, per Statement No. 25	.....	118,077 77	118,077 77
.....	.....	.....	.....	Ferry Licenses Revenue, per Statement No. 11	2,088 62	529 00	2,617 62
157,058 25	21,858,943 69	23,130 80	21,882,374 49	..... Less Refunds as per Statement No. 15	22,003 58	21,860,370 91	21,882,374 49
.....	157,038 25	.....	157,038 25	Totals	.....	157,068 25	157,038 25
.....	21,701,885 44	.....	21,725,316 24	.....	.....	21,703,312 66	22,725,316 24

INLAND REVENUE DEPARTMENT, OTTAWA, June 1, 1913.

W. HIMS WORTH, Deputy Minister.

4 GEORGE V., A. 1914

DR.

No. 2—GENERAL EXPENDITURES ACCOUNT FOR

Balance due to Collectors, &c., April 1, 1912.	Expenditures Authorized by the Department.			Balances due by Collectors, &c., March 31, 1913.	Totals.	Services.
	Salaries.	Contingencies.	Seizures.			
¢ cts.	¢ cts.	¢ cts.	¢ cts.	¢ cts.	¢ cts.	
1,273 30	478,120 08	257,821 84	185 46	343 98	737,744 60	Excise and Seizures, per Statement No. 4.....
			2,085 20		2,085 20	Excise Seizures, distributed per Appendix B, Statement No. 2.....
	1,791 59	8,726 21			10,517 80	Preventive Service, per Statement No. 5.....
	3,070 75	18,912 44			21,983 19	Adulteration of Food, per Statement No. 6 and Appendix B, Statement No. 4.....
		879 58			879 58	Sundry Minor Expenditures, per Statement No. 10.....
	100,408 32	8,237 52		16 66	108,662 50	Departmental Expenditures, per Statement No. 16.....
	74,317 60	57,027 11		3 70	131,348 41	Weights and Measures, per Statement No. 19 A.....
	35,025 58	15,227 91		212 88	50,466 37	Gas Inspection, per Statement No. 21.....
	17,162 44	25,550 44			42,712 88	Electric Light Inspection, per Statement No. 23.....
		95,993 45			95,993 45	Methylated Spirits, per Statement No. 25.....
1,273 30	709,896 36	488,376 50	2,270 60	577 22	1,202,393 98	Totals.....

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

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THE YEAR ENDED MARCH 31, 1913.

CR.

Balances due by Col- lectors, &c., April 1, 1912.	Amounts disbursed by the Receiver General, on requi- sition of the De- partment.	Deductions from Salaries for				Annuities.	Balances due to Col- lectors, &c., March 31, 1913.	Totals.
		Super- annuation.	Insurance.	Retirement.	Guarantee.			
¢ cts.	¢ cts.	¢ cts.	¢ cts.	¢ cts.	¢ cts.	¢ cts.	¢ cts.	¢ cts.
343 98	717,389 12	4,237 11	1,940 38	12,294 39	1,350 14	140 40	49 08	737,744 60
.....	2,085 20	.....	.....	.....	.....	.....	.....	2,085 20
.....	10,514 92	.....	.....	.....	2 88	.....	.....	10,517 80
.....	21,957 26	11 71	.....	.....	14 22	.....	.....	21,983 19
.....	879 58	.....	.....	.....	.....	.....	.....	87 9 5
16 66	104,835 51	508 75	423 90	2,877 68	.....	.....	.....	108,662 50
3 70	130,915 50	192 55	66 00	.....	170 66	.....	.....	131,348 41
212 88	49,982 33	47 27	.....	89 88	131 01	.....	.....	50,466 37
300 00	42,367 53	.....	.....	.....	45 35	.....	.....	42,712 88
.....	95,993 45	.....	.....	.....	.....	.....	.....	95,993 4
877 22	1,176,920 40	4,997 39	2,430 28	15,261 95	1,717 26	140 40	49 08	1,202,363 98

W. HIMSWORTH,
Deputy Minister.

EXCISE

Dr.

No. 3.—COLLECTION DIVISIONS

Balances due April 1, 1912.	Amount accrued during the Year, including License Fees.							
	Spirits.	Malt Liquor.	Malt.	Tobacco.	Cigars.	Acetic Acid.	Bonded Manufactures.	Seizures.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
112 61	110,127 61	50 00	10,778 13	1,621 60	672 75	.....	2,146 42	.....
.....	47,159 84	100 00	9,624 25	20,018 32	9,741 67	.....	2,867 63	.....
.....	354,902 71	300 00	98,474 62	7,891 38	5,793 70	.....	.....	.....
.....	344,241 34	100 00	71,392 24	694,287 50	37,032 13	.....	4,763 79	.....
.....	72,208 88	100 00	6,463 28	15,652 42	6,672 00	.....	2,918 84	.....
.....	86,416 10	200 00	72,151 79	288,576 96	93,831 52	.....	.....	.....
.....	345,522 11	100 00	19,358 10	1,176 90	1,504 28	.....	724 30	.....
.....	.....	250 00	8,452 37	3,987 29	2,098 37	.....	.....	.....
.....	206,314 61	100 00	32,099 76	1,326 83	219 50	.....	100 00	.....
.....	9,577 88	100 00	10,984 49	547 96	283 65	.....	.....	.....
.....	142,765 22	150 00	24,936 02	520 52	329 90	.....	.....	.....
.....	123,374 69	150 00	45,910 17	1,708 56	1,321 80	.....	.....	.....
.....	16,978 29	100 00	24,555 29	3,228 68	3,721 60	.....	.....	.....
.....	28,130 70	150 00	10,232 15	8,954 70	3,185 69	.....	.....	.....
.....	1,271,939 46	650 00	343,347 32	185,065 69	54,864 90	.....	38,518 25	.....
.....	563,364 18	100 00	52,818 13	32,427 70	10,679 87	.....	5,489 39	.....
522 89	.....	.....	.....	.....	.....	.....	.....	.....
635 50	3,662,123 62	2,700 00	841,578 11	1,266,993 01	231,953 33	.....	57,528 62	.....
.....	85,482 86	.....	.....	15,249 11	14,094 58	.....	.....	.....
1,722 61	2,233,188 16	10,502 30	386,878 58	7,171,215 56	266,239 10	10,525 60	9,892 44	689 01
.....	456,206 74	150 00	34,923 41	227,248 93	11,102 58	.....	3,663 22	170 00
.....	123,572 48	50 00	13,543 50	330,302 69	18,482 19	.....	300 00	100 00
.....	124,061 48	.....	2,130 00	6,722 61	1,078 50	.....	2,250 07	.....
54 27	76,872 38	50 00	378 00	4,592 49	1,615 73	.....	.....	100 00
3,295 57	.....	.....	.....	.....	.....	.....	.....	.....
5,072 45	3,099,384 10	10,752 30	437,853 49	7,755,331 39	312,612 68	10,525 60	16,045 73	1,059 01
.....	178,173 57	100 00	19,800 00	5,263 89	8,052 18	.....	3,091 52	435 00
1,442 62	.....	.....	.....	.....	.....	.....	.....	.....
1,442 62	178,173 57	100 00	19,800 00	5,263 89	8,052 18	.....	3,091 52	435 00
.....	48,514 80	150 00	41,611 56	4,117 36	1,664 73	.....	.....	.....
5,860 50	6,513 27	.....	.....	1,757 91	622 85	.....	.....	13 60
5,860 50	55,928 07	150 00	44,611 56	5,875 27	2,287 58	.....	.....	13 60
.....	129 65	.....	.....	12,208 92	.....	.....	.....	.....
.....	1,106,178 09	556 10	174,794 54	47,726 80	15,287 34	.....	13,028 55	151 25
5,564 04	469,063 08	42,073 30	128,658 88	28,874 30	9,866 05	.....	.....	100 00
.....	253,579 28	11,939 00	40,347 06	3,234 98	1,509 85	.....	.....	.....

SESSIONAL PAPER No. 12

1912-1913.

IN ACCOUNT WITH REVENUES.

CR.

Sundries.	Total Duties accrued.	Total Debits.	Divisions.	Deposited to Credit of Receiver General.	Balances due March 31, 1913.	Total Credits.
§ cts.	§ cts.	§ cts.		§ cts.	§ cts.	§ cts.
2,915 30	128,311 81	128,311 81	Belleville.....	128,311 81		128,311 81
750 00	90,261 71	90,261 71	Brantford.....	90,261 71	112 61	90,261 71
3,382 21	470,744 62	470,744 62	Guelph.....	470,744 62		470,744 62
3,170 30	1,154,987 30	1,154,987 30	Hamilton.....	1,154,987 30		1,154,987 30
1,179 00	105,194 42	105,194 42	Kingston.....	105,194 42		105,194 42
353 10	541,529 47	541,529 47	London.....	541,529 47		541,529 47
792 00	369,177 69	369,177 69	Ottawa.....	369,177 69		369,177 69
1 50	14,789 53	14,789 53	Owen Sound.....	14,789 53		14,789 53
1,133 00	241,293 70	241,293 70	Perth.....	241,293 70		241,293 70
101 00	21,594 98	21,594 98	Peterborough.....	21,594 98		21,594 98
400 00	169,101 66	169,101 66	Port Arthur.....	169,101 66		169,101 66
1,726 00	174,191 22	174,191 22	Prescott.....	174,191 22		174,191 22
125 10	47,808 96	47,808 96	St. Catharines.....	47,808 96		47,808 96
200 00	50,853 24	50,853 24	Stratford.....	50,853 24		50,853 24
25,697 70	1,920,083 32	1,920,083 32	Toronto.....	1,920,083 32		1,920,083 32
28,113 90	632,993 17	632,993 17	Windsor.....	632,993 17		632,993 17
		522 89	Suspense Account.....		522 89	522 89
70,040 11	6,132,916 80	6,133,552 30	..... Ontario.....	6,132,916 80	635 50	6,133,552 30
16,711 20	131,537 75	131,537 75	Joliette.....	130,501 67	1,036 08	131,537 75
4,650 03	10,093,780 78	10,093,503 59	Montreal.....	10,093,554 19	1,949 29	10,093,503 39
1,653 10	735,057 98	735,057 98	Quebec.....	734,803 23	254 75	735,057 98
302 00	486,652 86	486,652 86	Sherbrooke.....	486,652 86		486,652 86
1,102 25	137,344 91	137,344 91	St. Hyacinthe.....	137,344 91		137,344 91
400 00	84,008 80	84,062 87	Three Rivers.....	84,008 60	54 27	84,062 87
		3,295 57	Suspense Account.....		3,295 57	3,295 57
24,818 58	11,668,382 88	11,673,455 33	..... Quebec.....	11,666,865 46	6,589 87	11,673,455 33
904 40	215,820 56	215,820 56	St. John.....	215,820 56		215,820 56
		1,442 62	Suspense Account.....		1,442 62	1,442 62
904 40	215,820 56	217,263 18	..... New Brunswick.....	215,820 56	1,442 62	217,263 18
300 00	99,358 45	99,358 45	Halifax.....	99,358 45		99,358 45
200 00	9,107 63	9,107 63	Pictou.....	9,107 63		9,107 63
		5,860 50	Suspense Account.....		5,860 50	5,860 50
500 00	108,466 08	114,326 58	..... Nova Scotia.....	108,466 08	5,860 50	114,326 58
	12,338 57	12,338 57	..... Charlottetown, P.E.I.....	12,338 57		12,338 57
2,430 00	1,360,152 67	1,360,152 67	..... Winnipeg—Manitoba.....	1,360,152 67		1,360,152 67
1,450 00	680,085 61	685,649 65	..... Calgary—Alberta.....	680,085 66	5,563 99	685,649 65
900 00	311,510 17	311,510 17	Moose Jaw—Saskatchewan.....	311,510 17		311,510 17

EXCISE

DR.

No. 3—COLLECTION DIVISIONS

Balances due April 1, 1912.	Amount accrued during the Year, including License Fees.							
	Spirits.	Malt Liquor.	Malt.	Tobacco.	Cigars.	Acetic Acid.	Bonded Manufactures.	Seizures.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1,202 09	472,701 11	74,464 80	121,629 35	40,224 70	14,684 39	.....	1,765 95	304 00
.....	174,426 43	6,651 80	54,398 46	26,447 70	6,015 30	.....	.....	.....
1,202 09	647,127 54	81,116 60	176,027 81	66,672 40	20,699 69	.....	1,765 95	304 00
.....	3,355 12	50 00	853 12	.....	.....	.....	.....	.....
19,777 20	9,474,142 12	149,437 30	1,864,524 57	9,192,180 96	602,268 70	10,525 60	91,460 37	2,062 86
.....	21,460 35	.....	133,965 02	453 88	100 00	.....	.....	.....
.....	9,452,681 77	149,437 30	1,730,559 55	9,191,727 08	602,168 70	10,525 60	91,460 37	2,062 86

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

1912-1913—*Concluded.*

IN ACCOUNT WITH REVENUES—*Concluded.*

Cr.

Sundries.	Total Duties accrued.	Total Debits.	Divisions.	Deposited to Credit of Receiver General.	Balances due March 31, 1913.	Total Credits.
\$ cts.	\$ cts.	\$ cts.		\$ cts.	\$ cts.	\$ cts.
1,861 00	727,635 30	728,837 39	.. Vancouver	727,635 50	1,201 89	728,837 39
375 00	268,314 69	268,314 69	.. Victoria	268,314 59	0 10	268,314 69
2,236 00	995,949 99	997,152 08	.. British Columbia	995,950 09	1,201 99	997,152 08
100 00	4,358 24	4,358 24	.. Yukon	4,358 24		4,358 24
103,379 09	21,489,981 57	21,509,758 77	..... Totals	21,488,464 30	21,204 47	21,509,758 77
1,055 02	157,034 27		.. Less refunds as per state- ment No. 16			
102,324 07	21,332,947 30		.. Net Revenue			

W. HIMSWORTH,

Deputy Minister.

EXCISE

Dr.

No. 4.—COLLECTION DIVISIONS

Balances due by Collectors, April 1, 1912.	Amounts received from Department to meet Expenditures.	Deductions from Salaries for				Annuities.	Balances due to Collectors, March 31, 1913.	Totals.	Divisions.
		Superannuation.	Insurance.	Retirement.	Guarantee.				
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
43 98	16,088 40	141 92	53 34	345 90	35 40			16,708 94	Belleville.....
	9,078 06	89 76		260 76	24 96			9,453 54	Brantford.....
	22,881 53	302 82		255 27	49 32			23,488 94	Guelph.....
	26,668 72	159 63	113 68	761 64	80 64			27,784 31	Hamilton.....
	8,439 93	110 83		109 71	24 48			8,684 95	Kingston.....
	24,567 02	223 32	149 28	368 88	54 17			25,365 67	London.....
	9,315 79	38 07		513 74	27 12			9,694 72	Ottawa.....
	7,235 75	54 36		116 16	15 84			7,422 11	Owen Sound.....
	12,966 79	26 07	63 36	379 14	36 48			13,471 84	Perth.....
	4,063 54	15 92		91 59	9 12			4,180 17	Peterborough.....
	4,830 37			210 51	12 24			5,033 12	Port Arthur.....
	13,196 99	62 80	44 64	433 98	35 52	140 40		13,914 33	Prescott.....
	6,734 00	75 60		126 12	15 12			6,950 84	St. Catharines.....
	8,263 58	26 31	273 60	262 20	28 08			8,853 77	Stratford.....
	51,279 47	470 25	224 64	1,299 16	135 00			53,048 52	Toronto.....
	32,235 29	254 28	240 24	751 38	88 57		49 08	33,618 84	Windsor.....
	8,173 14	48 01			20 25			8,241 40	District Inspectors
43 98	266,018 37	2,102 95	1,162 78	6,086 14	692 31	140 40	49 08	276,296 01	Ontario.....
	13,833 41	15 80	35 04	409 93	24 69			14,318 87	Joliette.....
	65,800 02	590 59	215 30	1,557 61	167 85			68,331 37	Montreal.....
	27,780 93	190 32	15 10	567 17	53 85			28,607 37	Quebec.....
	15,282 61	36 00	263 76	555 35	34 69			16,172 41	St. Hyacinthe.....
	8,704 09	73 92		225 09	24 48			9,027 58	Sherbrooke.....
	4,604 04	51 84		55 47	11 88			4,723 23	Three Rivers.....
	5,768 69	56 00		125 00	18 00			5,967 69	District Inspectors
	141,773 79	1,014 47	529 20	3,495 62	335 44			147,148 52	Quebec.....
	13,376 99	188 02		183 99	37 08			13,786 08	St. John.....
	2,832 55	56 00			8 25			2,896 80	District Inspector.
	16,209 54	244 02		183 99	45 33			16,682 88	New Brunswick.....
	13,525 99	250 11		22 44	36 00			13,834 54	Halifax.....
	3,535 35	27 06		94 92	9 36			3,667 59	Pictou.....
	17,061 34	278 07		117 36	45 36			17,502 13	Nova Scotia.....
100 00	2,742 96			65 70	8 16			2,916 82	Charlottetown, P. E. I.....
200 00	24,282 85	169 50	77 52	708 75	59 52			25,498 14	Winnipeg.....
	12,197 61	6 52		320 90	20 76			12,545 79	Calgary.....
	7,088 17	23 76		180 90	16 48			7,309 31	Moose Jaw.....
	7,067 65	33 30			16 50			7,117 45	District Inspector.
200 00	50,635 28	233 08	77 52	1,210 55	113 26			52,470 69	Manitoba, Alberta and Saskatchewan

SESSIONAL PAPER No. 12

1912-1913.

IN ACCOUNT WITH EXPENDITURES.

Cr.

Balances due to Collectors, April 1, 1912.	Expenditures authorized by the Department.						Balances due by Collectors, March 31, 1913.	Totals.
	Salaries.	Seizures Expenditures.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.		
§ cts.	§ cts.	§ cts.	§ cts.	§ cts.	§ cts.	§ cts.	§ cts.	§ cts.
	14,980 60		800 62		1,616 05	167 69	43 98	16,708 94
	8,644 48		370 04		264 05	174 97		9,453 54
	21,910 92		826 64	180 00	232 45	338 93		23,488 94
	27,345 54		120 00		51 85	266 92		27,784 31
	8,166 00		411 29		41 00	66 66		8,684 95
96 70	23,284 91		1,408 00		244 00	332 06		25,365 67
	8,779 72	2 70	750 00		74 10	88 20		9,694 72
	6,849 96		308 98		183 60	79 57		7,422 11
	11,295 91		639 59	368 34	789 07	378 93		13,471 84
	2,629 92		1,206 00		256 10	88 15		4,180 17
	4,212 42		200 00		425 35	215 35		5,053 12
	12,816 69		860 73		70 27	166 64		13,914 33
	6,624 72		55 00	60 00	113 70	97 42		6,950 84
	8,399 79		94 00		204 80	155 18		8,853 77
	49,321 65		2,731 62		887 25	468 00		53,408 52
49 08	30,519 19		2,249 98		345 77	454 82		33,618 84
	6,834 47		52 00	200 00	1,099 32	55 61		8,241 40
145 78	251,716 89	2 70	13,084 49	808 34	6,898 73	3,595 10	43 98	276,296 01
266 99	9,076 50		4,048 65		314 15	612 58		14,318 87
860 53	56,167 97	7 15	8,846 16		1,201 06	1,248 50		68,331 37
	20,361 04	128 80	6,800 06		739 55	577 92		28,607 37
	12,916 85		1,804 94	345 00	872 65	232 97		16,172 41
	8,205 66	3 25	60 00		523 30	235 37		9,027 58
	3,712 35		696 39		155 35	159 14		4,723 23
	5,300 00				573 55	94 14		5,967 69
1,127 52	115,740 37	139 20	22,256 20	345 00	4,379 61	3,160 62		147,148 52
	13,100 06	31 90	460 00		41 30	152 82		13,786 08
	2,800 00				58 35	38 45		2,896 80
	15,900 06	31 90	460 00		99 65	191 27		16,682 88
	13,574 76				133 85	125 93		13,834 54
	3,299 88		82 50		186 25	98 96		3,667 59
	16,874 64		82 50		320 10	224 89		17,502 13
	2,689 51		69 86		34 00	23 45	100 00	2,916 82
	21,660 57	11 60	2,566 90	60 00	470 95	528 12	200 00	25,498 14
	6,748 15		3,667 13		1,244 80	885 71		12,545 79
	4,419 81		1,437 30	120 00	1,124 75	207 45		7,309 31
	4,466 60		12 00		2,533 90	104 95		7,117 45
	37,295 13	11 60	7,683 33	180 00	5,374 40	1,726 23	200 00	52,470 69

EXCISE

DR.

No. 4.—COLLECTION DIVISIONS

Bal- ances due by Collec- tors, April 1, 1912.	Amounts received from Depart- ment to meet Expendi- tures.	Deductions from Salaries for				Annuities.	Bal- ances due to Collec- tors, March 31, 1913.	Totals.	Divisions.
		Super- annua- tion.	Insur- ance.	Retire- ment.	Guar- antee.				
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
	25,976 01	42 00	170 88	974 09	72 00			27,234 98	.. Vancouver.
	8,865 07	142 20		110 94	22 08			9,140 29	.. Victoria
	4,489 40	56 00			9 00			4,554 40	.. District Inspector.
	39,330 48	240 20	170 88	1,085 03	103 08			40,929 67	.. British Columbia..
	942 80			50 00	7 20			1,000 00	.. Yukon.
	214 30							214 30	.. Inspector of Bond- ed Factories
	1,516 30							1,516 30	.. Inspector of Brew- eries and Malt Houses.
	2,367 29	62 32						2,429 61	.. Inspector of Distil- leries
	4,069 84	62 00						4,131 84	.. Inspector of Tobac- co Factories.
343 98	542,883 29	4,237 11	1,940 38	12,294 39	1,350 14	140 40	49 08	563,238 77	.. Total of Divisions, &c
	15,687 71							15,687 71	.. General Expendi- tures.
	422 80							422 80	.. Legal Expenses.
	8,368 25							8,368 25	.. Printing.
	2,492 26							2,492 26	.. Stationery.
	3,886 87							3,886 87	.. Commission to Cust- oms Officers.
	14,852 99							14,852 99	.. Duty-pay to Offi- cers in charge of most important establishments.
	8,908 54							8,908 54	.. Provisional Allow- ance.
	9 73							9 73	.. Special Translation
	119,676 68							119,676 68	.. Printing Tobacco Stamps
	200 00							200 00	.. Grant H. H. Spe- cial vote.
343 98	717,389 12	4,237 11	1,940 38	12,294 39	1,370 14	140 40	49 08	737,744 60	.. Grand Totals.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

1912-13—*Concluded.*

IN ACCOUNT WITH EXPENDITURES—*Concluded.*

C.R.

Balances due to Collectors, April 1, 1912.	Expenditures authorized by the Department.						Balances due by Collectors, March 31, 1913.	Totals.
	Salaries.	Seizures Expenditures.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.		
§ cts.	§ cts.	§ cts.	§ cts.	§ cts.	§ cts.	§ cts.	§ cts.	§ cts.
.....	21,690 55	.....	2,385 64	550 00	1,588 09	1,110 70	.....	27,234 98
.....	7,147 29	.....	1,698 12	.....	84 90	299 98	.....	9,119 29
.....	2,800 00	.....	.....	.....	1,693 90	60 50	.....	4,554 40
.....	31,547 84	.....	3,993 76	550 00	3,366 89	1,471 18	.....	40,929 67
.....	1,000 00	.....	.....	.....	.....	.....	.....	1,000 00
.....	175 00	.....	.....	.....	39 30	.....	.....	214 30
.....	300 00	.....	.....	.....	1,187 45	28 85	.....	1,516 30
.....	1,780 64	.....	.....	85 00	558 02	5 95	.....	2,429 61
.....	3,100 00	.....	.....	.....	996 64	35 20	.....	4,131 84
1,273 30	478,120 08	185 40	47,630 14	1,968 34	23,254 79	10,462 74	343 98	563,238 77
.....	.....	.....	.....	.....	.....	15,687 71	.....	15,687 71
.....	.....	.....	.....	.....	.....	422 80	.....	422 80
.....	.....	.....	.....	.....	.....	8,368 25	.....	8,368 25
.....	.....	.....	.....	.....	.....	2,492 26	.....	2,492 26
.....	.....	.....	.....	.....	.....	3,886 87	.....	3,886 87
.....	.....	.....	.....	.....	.....	14,852 99	.....	14,852 99
.....	.....	.....	.....	.....	.....	8,908 54	.....	8,908 54
.....	.....	.....	.....	.....	.....	9 73	.....	9 73
.....	.....	.....	.....	.....	.....	119,676 68	.....	119,676 68
.....	.....	.....	.....	.....	.....	200 00	.....	200 00
1,273 30	478,120 08	185 40	47,630 14	1,968 34	23,254 79	184,968 57	343 98	737,744 00

W. HIMSWORTH,
Deputy Minister.

FOOD INSPECTION, 1912-1913.

Dr.

No. 6.—IN ACCOUNT WITH EXPENDITURES.

Cr.

Balance due by Inspectors April 1, 1912.	Amount received from Department to meet Expenditures.		Superannuation.	Guarantee.	Totals.	Expenditures authorized by the Department.						Balance due by Inspectors March 31, 1913.	Totals.				
	\$	cts.				\$	cts.	\$	cts.	Salaries.	Special Assistance.			Rent.	Travelling Expenses.	Sundries.	\$	cts.
	3,946	96			3,946	96									3,946	96	
	357	25		1 08	358	33									358	33	
	330	25		1 08	331	33									331	33	
	253	29			253	29									253	29	
	19	49			19	49									19	49	
	414	77		1 08	415	85									415	85	
	813	29	7 71	1 08	822	08									822	08	
	672	89		1 08	673	97									673	97	
	446	98		1 08	448	06			120	00					448	06	
	104	22	4 00	1 08	109	30									109	30	
	664	37		1 08	665	65									665	65	
	284	62		1 08	285	70									285	70	
	78	19		0 18	78	37									78	37	
	366	97		1 08	368	05									368	05	
	386	82		1 08	387	90									387	90	
	298	22		1 08	299	30									299	30	
	281	17		1 08	282	55									282	55	
	3,286	74			3,286	74									3,286	74	
	262	64			262	64									262	64	
	8	28			8	28									8	28	
	8,157	50			8,157	50									8,157	50	
	165	43			165	43		125	00						165	43	
	56	42			56	42		25	00						56	42	
	21,957	26	11 71	14 22	21,983	19		3,070	75	898	00	120	00	1,777	02	21,983	19

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

SESSIONAL PAPER No. 12

LAW STAMPS, 1912-13.

No. 8 LAW STAMPS in account with the Inland Revenue Department.

Dr.

Cr.

Stamps on hand April 1, 1912.	Stamps received from Department 1912.	Totals.	Commission of 5 per cent allowed by Department on stamps sold.	Deposited to the Credit of the Receiver General.	Stamps on hand March 31, 1913.	Totals.
\$ cts	\$ cts	\$ cts	\$ cts	\$ cts	\$ cts	\$ cts
82 55	1,700 00	1,782 55		1,727 90	54 65	1,782 55
	1,263 90	1,263 90	22 10	1,191 00	72 80	1,263 90
7,316 95	500 00	7,816 95		1,979 15	3,837 80	7,816 95
7,429 50	6,463 90	13,893 40	22 10	7,901 05	3,976 25	13,899 40
		Totals				

Cameron, R., Registrar, Supreme Court
 Mease, Charles, Registrar, Exchequer Court
 Controller, Dawson, Yukon Territorial Court

INLAND REVENUE DEPARTMENT,

OTTAWA, June 1, 1913

W. HIMS WORTH,

Deputy Minister.

4 GEORGE V., A. 1914

DR. No 9.—SUNDRY MINOR REVENUES, 1912-13. CR.

Accrued during the year ended March 31, 1913.	Totals.		Deposited to the Credit of the Receiver General.	Totals.
\$ cts.	\$ cts.		\$ cts.	\$ cts.
881 00	881 00	Registration of Agricultural Fertilizers Fees \$541.00		
		—Licenses \$340.00.....	881 00	881 00
327 00	327 00	Adulteration of Food Fees \$212.00—Penalties \$115.00	327 00	327 00
254 00	254 00	Casual Revenue.....	254 00	254 00
1,601 00	1,601 00	Patent Medicines Registration Fees ..	1,601 00	1,601 00
455 00	455 00	Commercial Feeding Stuffs Fees \$140.00—Licenses \$315.00	455 00	455 00
3,518 00	3,518 00	.....Totals	3,518 00	3,518 00

W. HIMSWORTH,

*Deputy Minister.*INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

DR. No 10.—SUNDRY MINOR EXPENDITURES, 1912 13. CR.

Amounts received from the Department to meet Expenditures.	Totals.		Printing and Stationery.	Contingencies	Totals.
\$ cts.	\$ cts.		\$ cts.	\$ cts.	\$ cts.
37 20	37 20	Sundries.....		37 20	37 20
334 45	334 45	Export of Electric Power.....		334 45	334 45
440 09	440 00	Patent Medicines Act.....		440 00	440 00
67 68	67 68	" Printing	67 68		67 68
25	25	" Stationery.....	25		25
879 58	879 58	.....Totals	67 93	811 65	879 58

W. HIMSWORTH,

*Deputy Minister.*INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

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DR.

No. 11.—FERRY LICENSES, REVENUE FOR 1912 1913.

CR.

Balances due April 1, 1912.	Accrued during the year ended March 31, 1913.	Totals.	<i>Ferries.</i>	Deposited to the credit of the Receiver General.	Balances due March 31, 1913.	Totals.
\$ cts.	\$ cts.	\$ cts.		\$ cts.	\$ cts.	\$ cts.
15 83	15 00	15 00	Buckingham and Cumberland	15 00	15 00	15 00
20 00	50 00	50 00	Buffalo and Point Abino	50 00	50 00	50 00
1,736 79	10 00	45 83	Clair Station and Kent	10 00	45 83	45 83
	10 00	10 00	Courtright and St. Clair	10 00	10 00	10 00
	10 00	10 00	Cross Point and Campbellton	10 00	20 00	20 00
	50 00	20 00	Edmundston and Maine	50 00	50 00	50 00
	50 00	50 00	Fort Erie and Buffalo	50 00	50 00	50 00
	50 00	1,736 79	Fort Frances	50 00	1,736 79	1,736 79
	50 00	50 00	Hull (old lease)	50 00	50 00	50 00
	6 00	6 00	Lapasse	6 00	6 00	6 00
	30 00	30 00	Montebello and Alfred	30 00	30 00	30 00
	1 00	1 00	Niagara and Youngstown	1 00	1 00	1 00
	1 00	1 00	Quebec Street, Detroit	1 00	1 00	1 00
	130 00	130 00	Pembroke and Alouette Island (old lease)	130 00	130 00	130 00
	1 00	1 00	Pembroke and Alouette Island (new lease)	1 00	1 00	1 00
	25 00	25 00	Rainy River	25 00	25 00	25 00
	255 00	255 00	Rockliffe and Gatineau	255 00	255 00	255 00
	100 00	100 00	Sault Ste. Marie	100 00	100 00	100 00
	30 00	30 00	St. Leonard and Van Buren	30 00	30 00	30 00
	1 00	1 00	Walkerville and Detroit	1 00	1 00	1 00
2,088 62	529 00	2,617 62		784 00	1,833 62	2,617 62

W. HIMSWORTH,
Deputy Minister.

ISLAND REVENUE DEPARTMENT,
OTTAWA June 1, 1913.

No. 12.—STATEMENT showing the quantities of the several articles subject 1911, 1912, 1913, and

Articles Subject to Excise Duty.	1911.			Duty. \$ cts.
	Quantities.			
	Ex-manu- factory.	Ex-ware- house.	Totals.	
	Gallons.	Gallons.	Gallons.	
Spirits.....	7,058 (* Imported)	4,146,452 151,387	4,153,510 151,387	7,864,335 27 45,416 21
Totals.....	7,058	4,297,839	4,304,897	7,909,751 48
Malt Liquor, the duty being paid on malt.	41,752,448	.....	41,752,448	46,818 01
Malt.....	Lbs.	Lbs.	Lbs.	1,523,271 89
Cigars—	No.	No.	No.	
Foreign.....		950,905	950,905	5,705 43
Canadian.....		94,000	94,000	282 00
Under amended rates of duty (1909).....	126,132,892	100,407,895	226,540,787	453,159 49
Totals.....	126,132,892	101,452,800	227,585,692	459,146 92
Cigarettes—				
Under amended rates of duty (1909).....	569,205,170	16,730,200	585,935,370	1,416,070 50
Tobacco from Foreign leaf.....	Lbs.	Lbs.	Lbs.	272 75
Canadian twist.....		1,091	1,091	959 05
Tobacco under amended rates of duty (1909).....	10,999,196	7,500,886	18,500,082	925,004 28
Snuff " " " ".....	382,968		382,968	19,148 40
Totals.....	11,382,164	7,521,158	18,903,322	2,361,454 98
Raw leaf tobacco, Foreign.....		15,012,704	15,012,704	4,239,736 64
Other materials.....		1,123,383	1,123,383	179,741 28
Total duties on tobacco and cigarettes.....				6,780,932 90
Vinegar.....				74,564 51
Acetic acid.....				10,141 94
Licenses, Spirits.....				3,625 00
" Malt Liquor.....				6,075 00
" Malt.....				6,200 00
" Cigars.....				11,050 00
" Tobacco.....				3,207 00
" Bonded Manufactures.....				3,275 00
" Acetic Acid.....				100 00
Grand total duty.....				16,838,159 65

* Spirits imported for use in the manufacture of crude fulminate, on which duty at a rate of 30 cents

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to Excise Duty taken for consumption during the fiscal years ended March 31, the duty accrued thereon.

1912.			1913.				
Quantities.			Duty.	Quantities.			Duty.
Ex-manu- factory.	Ex-ware- house.	Totals.		Ex-manu- factory.	Ex-ware- house.	Totals.	
Gallons.	Gallons.	Gallons.	\$ cts.	Gallons.	Gallons.	Gallons.	\$ cts.
9,317	4,534,785	4,544,102	8,655,636 60	2,508	4,999,937	5,002,445	9,470,642 12
9,317	4,562,382	4,571,699	8,663,915 82	2,508	4,999,937	5,002,445	9,470,642 12
47,518,647		47,518,647	81,156 14	52,314,400		52,314,400	143,612 30
Lbs. 347,576	Lbs. 113,681,917	Lbs. 114,029,523	1,710,796 62	Lbs. 4,433	Lbs. 123,916,174	Lbs. 123,920,607	1,859,124 57
No.	No. 176,825	No. 176,825	1,060 95	No.	No. 113,500	No. 113,500	681 00
158,584,925	93,956,492	252,541,417	505,109 88	188,391,148	106,268,285	294,659,433	589,337 70
158,584,925	94,133,317	252,718,242	506,170 83	188,391,148	106,381,785	294,772,933	590,018 70
755,790,845	26,872,996	782,663,841	1,889,376 74	947,426,257	30,317,044	977,743,301	2,357,795 81
Lbs.	Lbs. 168	Lbs. 168	42 00	Lbs.	Lbs. 17,535	Lbs. 17,535	876 75
12,905,153	7,962,559	20,867,712	1,043,385 75	13,545,167	8,148,942	21,694,109	1,084,795 68
534,068		534,068	26,793 40	659,992		659,992	32,999 60
13,439,221	7,979,825	21,419,046	2,960,362 79	14,296,159	8,166,477	22,371,636	3,476,287 84
	17,491,373	17,491,373	4,947,640 17		19,232,231	19,232,231	5,453,935 76
	1,372,144	1,372,144	219,543 04		1,615,596	1,615,596	258,495 36
			8,127,546 00				9,188,718 96
			81,945 41				88,760 37
			11,149 95				10,475 60
			3,750 00				3,500 00
			5,600 00				5,825 00
			5,750 00				5,400 00
			11,475 00				12,250 00
			3,230 00				3,462 00
			2,775 00				2,700 00
			150 00				50 00
			19,215,410 77				21,384,539 62

per gallon was collected and afterwards refunded on the exportation of the fulminate.

W. HIMSWORTH,
Deputy Minister.

No. 13.—AMOUNTS deposited monthly to the credit of the Receiver General, on

	Ontario.	Quebec.	New Brunswick.	Nova Scotia.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.
APRIL:—				
Excise.....	422,109 07	750,778 20	15,037 76	7,376 16
" Seizures.....		40 00		
Ferries.....	125 00	21 00		
Weights and Measures Inspection.....	561 93	239 85	119 00	12 83
Gas Inspection.....	353 40	24 00		
Electric Light Inspection.....	272 25	33 30		
Law Stamps (Exchequer Court).....	237 50			
Patent Medicines Fees.....	72 00	19 00	2 00	5 00
Adulteration of Food.....		10 00		
Fertilizers Fees.....	13 00	4 00	4 00	
Commercial Feeding Stuffs.....	4 00			
Methylated Spirits.....	5,408 31	3,206 24	52 56	73 80
Totals.....	429,156 46	754,375 59	15,215 32	7,467 79
MAY:—				
Excise.....	480,379 75	965,664 62	16,475 54	9,276 01
" Seizures.....		125 00		13 60
Ferries.....	10 00	255 00		
Weights and Measures Inspection.....	3,031 21	2,439 35	282 88	323 12
Gas Inspection.....	2,321 60	1,462 20	44 60	29 20
Electric Light Inspection.....	2,769 05	810 75	69 00	205 50
Law Stamps (Supreme Court).....	170 60			
" (Exchequer Court).....	182 40			
" (Territorial Court, Yukon).....				
Patent Medicines Fees.....	45 00	12 00	1 00	
Adulteration of Food.....	5 00	9 00		
Fertilizers Fees.....	12 00		4 00	
Commercial Feed Stuffs.....				
Methylated Spirits.....	7,662 37	1,580 10	53 02	76 37
Testing Milk Glasses Revenue.....	80 40			
Casual Revenue.....	12 00			
Totals.....	496,681 38	972,358 02	16,930 04	9,923 80
JUNE:—				
Excise.....	478,862 92	989,981 52	18,907 04	9,691 26
" Seizures.....		85 55	100 00	
Weights and Measures Inspection.....	1,369 38	2,337 65	299 85	299 00
Gas Inspection.....	3,266 40	1,518 70	43 60	15 00
Electric Light Inspection.....	1,538 75	909 35	73 95	62 25
" Export Licenses.....	275 00	25 00	25 00	
Electrical Standards of Laboratory.....	6 00			
Law Stamps (Supreme Court).....	91 60			
" (Exchequer Court).....	416 00			
" (Territorial Court, Yukon).....				
Patent Medicines Fees.....	25 00	8 00	2 00	
Fertilizers Fees.....	4 00	9 00		
Methylated Spirits.....	6,231 77	2,552 86	27 15	30 21
Testing Milk Glasses Revenue.....	190 90			
Totals.....	495,277 72	997,427 63	19,478 39	10,097 72

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account of Inland Revenues, during the Year ended March 31, 1913.

Prince Edward Island.	Manitoba.	Alberta.	Saskatchewan.	British Columbia.	Yukon.	Totals.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
996 43	97,477 54	42,514 80	16,118 61	58,027 91		1,410,436 48
						40 00
						146 00
		285 95		100 00		1,519 56
						377 40
						305 55
						237 50
1 00	2 00	5 00		5 00		111 00
	5 00					15 00
		4 00		11 00		36 00
						4 00
	205 24			113 93		9,060 08
997 43	97,689 78	42,809 75	16,118 61	58,257 84		1,422,088 57
1,013 44	94,313 20	47,441 27	20,237 45	84,483 74	695 56	1,719,980 58
						138 60
						265 00
16 70	886 90	360 85	4 00	357 45		7,702 46
	125 00	63 60		279 80		4,326 00
	1,080 60	780 00	108 60	682 20		6,505 70
						170 60
						182 40
					67 70	67 70
1 00	5 00	2 00	1 00	4 00		71 00
						14 00
						16 00
				9 00		9 00
	714 85			238 43		10,325 14
						80 40
						12 00
1,031 14	97,125 55	48,647 72	20,351 05	86,054 62	763 26	1,749,866 58
988 72	97,933 46	48,795 23	24,239 00	67,327 94	1,015 34	1,737,742 43
						185 55
55 10	872 05	370 00		322 25		8,925 28
	206 80	39 80		328 60		5,418 90
10 80	714 00	365 85	172 50	1,244 25		5,091 70
				100 00		425 00
						6 00
						91 60
						416 00
					107 00	107 00
	1 00			1 00		37 00
				1 00		14 00
	279 08			111 92		9,232 99
						190 90
1,054 62	100,006 39	49,579 88	24,411 50	69,436 96	1,122 34	1,767,884 35

No. 13.—AMOUNTS deposited monthly to the credit of the Receiver General, on

	Ontario.	Quebec.	New Brunswick.	Nova Scotia.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.
JULY:—				
Excise.....	454,805 79	904,911 48	17,006 85	9,371 94
" Seizures.....		228 50		
Ferries.....	50 00			
Weights and Measures Inspection.....	4,524 96	3,166 60	558 90	538 06
" " Seizures.....	20 00			
Gas Inspection.....	3,088 90	1,297 50	79 30	52 80
Electric Light Inspection.....	2,050 50	1,217 00	69 60	25 50
Law Stamps (Supreme Court).....	111 35			
" (Exchequer Court).....	599 00			
" (Territorial Court, Yukon).....				
Patent Medicines Fees.....	58 00	16 00	3 00	1 00
Fertilizers Fees.....	53 00	7 00		1 00
Methylated Spirits.....	6,392 28	1,833 54		69 57
Testing Milk Glasses Revenue.....	281 85			
Totals.....	472,035 63	912,677 62	17,717 65	10,059 87
AUGUST:—				
Excise.....	514,569 19	1,057,187 55	18,704 32	9,858 31
" Seizures.....		60 00		
Weights and Measures Inspection.....	2,423 29	4,305 10	474 15	241 65
Gas Inspection.....	3,017 40	1,387 80	126 80	13 80
Electric Light Inspection.....	1,728 60	592 10	78 60	175 05
Law Stamps (Exchequer Court).....	166 50			
" (Territorial Court, Yukon).....				
Patent Medicines Fees.....	27 00	5 00		2 00
Adulteration of Food.....	12 00			
Fertilizers Fees.....	81 00	6 00		
Commercial Feeding Stuffs.....	12 00			
Methylated Spirits.....	6,004 32	2,023 55	51 71	
Totals.....	528,041 30	1,065,567 10	19,435 58	10,290 81
SEPTEMBER:—				
Excise.....	526,706 07	956,839 63	20,626 05	10,682 82
" Seizures.....		84 96	135 00	
Weights and Measures Inspection.....	3,316 44	3,096 50	808 09	724 80
Gas Inspection.....	2,537 90	1,399 60	114 00	30 40
Electric Light Inspection.....	1,808 25	632 40	119 85	88 20
Law Stamps (Supreme Court).....	156 00			
" (Exchequer Court).....	146 00			
" (Territorial Court, Yukon).....				
Patent Medicines Fees.....	26 00	13 00		2 00
Adulteration of Food.....	24 00	5 00		
Fertilizers Fees.....	6 00	2 00		
Methylated Spirits.....	5,642 98	2,233 94	25 27	
Casual Revenue.....	42 00			
Totals.....	540,411 64	964,307 03	21,828 26	11,528 22

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account of Inland Revenues, during the Year ended March 31, 1913—Continued.

Prince Edward Island.	Manitoba.	Alberta.	Saskatchewan.	British Columbia.	Yukon	Totals.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
949 63	101,790 95	58,874 26	21,889 00	91,516 02	205 95	1,664,321 96
						228 50
						50 00
74 87	1,274 25	441 90		298 35		10,880 89
						20 00
9 60	355 60	108 80		328 00		5,320 50
6 00	1,410 75	316 00	79 80	914 40		6,089 55
						111 35
						599 00
						125 75
	3 00	1 00	3 00	5 00		90 00
						61 00
	209 93			111 20		8,706 52
						281 85
1,040 10	105,134 48	59,744 96	21,971 89	93,172 97	331 70	1,690,886 87
932 70	106,815 21	58,946 26	27,342 71	82,516 74	1,056 96	1,877,929 95
	100 00					160 00
97 90	1,131 30	269 70		331 00		9,274 09
	244 00	102 20		309 20		5,201 20
3 00	939 45	414 45	153 60	791 55		4,876 40
						166 50
						278 20
	1 00	1 00		1 00		37 00
	25 00	5 00				42 00
						87 00
	7 00					19 00
	341 62			110 20		8,531 49
1,033 60	109,604 58	59,738 61	27,496 31	84,659 78	1,335 46	1,906,602 83
1,015 43	113,243 62	55,856 32	26,568 43	86,834 16		1,798,372 53
						219 95
90 05	500 15	374 55		353 15		9,263 73
	246 00	698 60		347 60		5,284 10
4 80	1,117 20	370 80	189 00	1,009 50		5,340 00
						156 00
						146 00
						266 75
	3 00			4 00		48 00
						29 00
						8 00
	352 21			157 51		8,411 91
						42 00
1,110 28	115,462 18	57,210 27	26,757 43	88,705 92	266 75	1,827,587 98

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No. 13.—AMOUNTS deposited monthly to the credit of the Receiver General on

	Ontario.	Quebec.	New Brunswick.	Nova Scotia.
	§ cts.	§ cts.	§ cts.	§ cts.
OCTOBER:—				
Excise	531,294 84	1,061,038 12	18,644 44	8,258 99
" Seizures		250 00		
Weights and Measures Inspection	3,948 52	3,013 85	356 00	420 67
Gas Inspection	2,597 90	1,240 80	143 00	31 40
Electric Light Inspection	2,353 70	1,029 85	60 00	200 40
" " Export Licenses		50 00		
Electrical Standard of Laboratory	1 75			
Law Stamps (Supreme Court)	217 40			
" " (Exchequer Court)	140 00			
" " (Territorial Court, Yukon)				
Patent Medicines Fees	23 00	10 00		2 00
Adulteration of Food	5 00	10 00		15 00
Fertilizers Fees		6 00		
Commercial Feeding Stuffs	11 00			
Methylated Spirits	8,246 19	3,058 32	52 95	
Totals	548,839 30	1,069,706 94	19,256 48	8,928 46
NOVEMBER:—				
Excise	578,478 73	1,052,546 59	20,702 63	11,271 42
" Seizures		25 00		
Ferries	1 00			
Weights and Measures Inspection	3,722 20	2,771 70	233 00	436 92
" " Seizures	25 00			
Gas Inspection	2,741 40	1,432 80	192 00	25 80
Electric Light Inspection	2,573 25	966 00	102 60	142 50
Law Stamps (Supreme Court)	92 60			
" " (Exchequer Court)	390 00			
" " (Territorial Court, Yukon)				
Patent Medicines Fees	13 00	10 00		
Adulteration of Food	12 00	30 00		
Fertilizers Fees	43 00	5 00	7 00	5 00
Commercial Feeding Stuffs	50 00	5 00		
Methylated Spirits	7,532 62	1,435 29	26 44	
Testing Milk Glasses Revenue	387 60			
Casual Revenue	290 00			
Totals	596,262 40	1,059,227 38	21,263 67	11,881 64
DECEMBER:—				
Excise	581,026 76	1,106,724 18	19,474 58	10,045 89
" Seizures				
Ferries	30 00			
Weights and Measures Inspection	2,704 60	1,500 55	161 49	110 58
Gas Inspection	2,772 90	1,427 20	36 00	10 00
Electric Light Inspection	2,836 35	1,116 30	111 45	105 90
Electrical Standard of Laboratory	5 00			
Law Stamps (Supreme Court)	204 90			
" " (Exchequer Court)	193 00			
" " (Territorial Court, Yukon)				
Patent Medicines Fees	16 00	4 00	1 00	
Adulteration of Food				
Fertilizers Fees	55 00	20 00		11 00
Commercial Feeding Stuffs	63 00	24 00		
Methylated Spirits	5,457 41	2,676 38	76 74	70 78
Totals	595,364 92	1,113,492 61	19,861 26	10,354 15

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account of Inland Revenues, during the year ended March 31, 1913—Continued.

Prince Edward Island.	Manitoba.	Alberta.	Saskatchewan.	British Columbia.	Yukon.	Totals.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
966 85	119,065 64	59,574 00	29,040 92	89,858 81	555 92	1,918,278 53
.....	.....	.....	.....	.....	.....	250 00
51 68	1,037 80	117 65	.....	266 35	.....	9,212 61
10 20	317 80	534 70	.....	348 20	.....	5,224 00
17 40	960 70	536 55	171 90	974 15	.....	6,304 65
.....	.....	.....	.....	.....	.....	50 00
.....	.....	.....	.....	.....	.....	1 75
.....	.....	.....	.....	.....	.....	217 40
.....	.....	.....	.....	.....	.....	140 00
.....	.....	.....	.....	.....	150 25	150 25
.....	1 00	.....	1 00	2 00	.....	39 00
.....	5 00	.....	.....	.....	.....	25 00
.....	.....	.....	.....	.....	.....	6 00
.....	.....	.....	.....	.....	.....	11 00
.....	225 49	.....	.....	107 46	.....	11,688 47
1,046 13	121,611 43	60,742 90	29,213 82	91,556 97	796 17	1,931,998 60
.....
1,164 89	147,556 09	61,033 44	36,473 56	83,374 43	86 92	1,992,688 49
.....	.....	.....	.....	.....	.....	25 00
.....	.....	.....	.....	.....	.....	1 00
87 13	1,618 95	487 25	632 55	566 80	.....	10,556 50
.....	.....	.....	.....	.....	.....	27 00
.....	311 20	429 90	.....	247 40	.....	5,380 50
20 40	1,252 65	813 00	535 50	1,231 30	.....	7,637 26
.....	.....	.....	.....	.....	.....	92 60
.....	.....	.....	.....	.....	.....	390 00
.....	.....	.....	.....	.....	318 75	318 75
.....	.....	.....	.....	2 00	.....	25 00
.....	.....	.....	.....	.....	.....	42 00
.....	.....	.....	.....	5 00	.....	65 00
.....	10 00	.....	.....	10 00	.....	75 00
.....	256 18	.....	.....	105 90	.....	9,356 43
.....	.....	.....	.....	.....	.....	387 60
.....	.....	.....	.....	.....	.....	200 00
1,272 42	151,005 07	62,763 59	37,641 61	85,542 83	405 37	2,027,265 98
.....
1,138 48	152,484 92	80,624 42	35,956 31	98,327 03	607 78	2,086,410 35
.....	51 25	.....	.....	394 00	.....	355 25
.....	.....	.....	.....	.....	.....	70 00
26 90	1,348 54	339 50	857 55	379 90	.....	7,449 61
.....	236 00	409 10	.....	283 80	.....	5,175 00
16 35	1,489 05	844 05	292 65	1,379 90	.....	8,192 00
.....	.....	.....	.....	.....	.....	5 00
.....	.....	.....	.....	.....	.....	294 90
.....	.....	.....	.....	.....	.....	193 00
.....	.....	.....	.....	.....	447 00	447 00
.....	1 00	.....	.....	1 00	.....	23 00
.....	5 00	.....	.....	.....	.....	5 00
.....	5 00	15 00	.....	22 00	.....	120 00
.....	.....	5 00	.....	5 00	.....	37 00
.....	563 35	.....	.....	111 35	.....	8,356 01
1,181 73	156,184 11	82,258 07	37,496 51	100,813 98	1,054 78	2,117,972 12

No. 13.—AMOUNTS deposited monthly to the credit of the Receiver General, on

	Ontario.	Quebec.	New Brunswick.	Nova Scotia.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.
JANUARY:—				
Excise	487,516 30	813,040 86	18,203 03	7,681 52
" Seizures		100 00		
Ferries	1 00			
Weights and Measures Inspection	4,521 87	1,134 60	210 81	275 74
Gas Inspection	2,439 10	1,337 30	80 40	55 20
Electric Light Inspection	2,525 10	908 30	102 60	88 20
Law Stamps (Supreme Court)	76 40			
" " (Exchequer Court)	481 30			
" " (Territorial Court, Yukon)				
Patent Medicines Fees	50 00	21 00	1 00	5 00
Adulteration of Food	10 00			
Fertilizers Fees	192 00	2 00	5 00	102 00
Commercial Feeding Stuffs	30 00	5 00		
Methylated Spirits	6,762 79	2,250 50	51 20	
Totals	504,605 86	818,799 56	18,654 04	8,207 56
FEBRUARY:—				
Excise	499,960 54	1,025,452 44	13,700 38	5,738 97
" Seizures		60 00		
Ferries	50 00			
Weights and Measures Inspection	3,848 59	1,711 20	133 82	153 30
Gas Inspection	2,363 30	1,597 00	34 20	5 20
Electric Light Inspection	2,292 30	1,022 60	102 60	180 90
Law Stamps (Supreme Court)	339 70			
" " (Exchequer Court)	838 00			
Patent Medicines Fees	229 00	38 00	5 00	7 00
Adulteration of Food	10 00	5 00		
Fertilizers Fees	33 00	1 00		41 00
Commercial Feeding Stuffs	71 00	5 00		
Methylated Spirits	6,550 17	2,975 36	29 67	
Totals	516,585 69	1,032,867 60	14,005 67	6,126 37
MARCH:—				
Excise	577,206 84	981,641 26	17,902 94	9,199 19
" Seizures			200 00	
Ferries	231 00		10 00	
Weights and Measures Inspection	5,174 00	3,411 75	202 15	85 84
Gas Inspection	4,673 00	3,925 60	160 80	76 20
Electric Light Inspection	5,082 00	2,237 90	337 50	405 30
Law Stamps (Supreme Court)	267 35			
" " (Exchequer Court)	404 30			
" " (Territorial Court, Yukon)				
Patent Medicines Fees	542 00	104 00	15 00	26 00
Fertilizers Fees	57 00	9 00		
Commercial Feeding Stuffs	60 00	7 00		
Adulteration of Food	75 00	5 00		15 00
Electrical Standard of Laboratory	22 00			
Testing Milk Glasses Revenue	470 35			
Methylated Spirits	9,576 92	3,874 15	78 80	76 29
Totals	603,841 76	995,215 66	18,907 19	9,883 82

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account of Inland Revenues, during the year ended March 31, 1913—*Conclud-a.*

Prince Edward Island.	Manitoba.	Alberta.	Saskatchewan.	British Columbia.	Yukon.	Totals.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
873 00	115,209 78	52,552 06	25,025 30	75,261 34		1,595,366 19
						100 00
						1 00
4 25	604 65	5 00	166 49	207 80		7,521 12
12 00	252 80	296 10		241 40		4,714 50
11 49	1,161 35	539 25	253 35	893 50		6,482 05
						76 40
						181 50
					96 00	96 00
	2 00	1 00		1 00		81 00
						10 00
	2 00	2 00				305 00
	5 00			5 00		15 00
	185 57					9,550 06
900 65	117,813 15	53,395 41	25,745 05	76,613 04	96 00	1,624,830 42
1,021 46	94,095 53	47,733 48	21,164 62	70,999 93		1,779,867 35
						60 00
						50 00
6 20	567 00	324 17	596 95	321 40		7,662 63
4 20	213 40	885 90		223 80		5,327 00
15 00	874 60	737 35	223 80	791 25		6,240 40
						339 70
						338 00
2 00	6 00	2 00	2 00	13 00		304 00
						15 00
			13 00			88 00
	5 00	7 00	22 00			110 00
	34 10			112 58		9,701 88
1,048 86	95,795 63	49,689 90	22,022 37	72,461 96		1,810,603 96
1,277 54	120,015 48	66,060 12	24,454 17	107,115 04	134 11	1,905,006 69
		100 00				300 00
						241 00
31 90	973 80	300 70	131 65	544 75	26 50	10,883 04
14 20	300 50	1,189 60		658 60		16,998 50
10 20	1,250 15	924 60	94 20	1,425 75		11,797 60
						27 35
						104 30
					121 75	121 75
3 00	18 00	6 00	3 00	18 00		735 00
						60 00
		9 00		9 00		85 00
	5 00	10 00	10 00			120 00
						22 00
	562 90			387 79		479 35
1,336 84	123,125 83	68,600 02	24,693 02	110,158 93	282 36	1,956,045 43

4 GEORGE V., A. 1914

RECAPITULATION of Statement No. 13 showing the

	Ontario.		Quebec.		New Brunswick.		Nova Scotia.	
	\$	cts.	\$	cts.	\$	cts.	\$	cts.
Excise	6,132,916	80	11,665,806	45	215,385	56	108,452	48
Excise Seizures			1,059	01	435	00	13	60
Ferries	498	00	276	00	10	00		
Weights and Measures Inspection	42,146	99	29,128	70	3,840	23	3,622	51
" " Seizures	45	00						
Gas Inspection	32,173	20	18,050	50	1,054	70	345	00
Electric Light Inspection	27,830	10	11,475	85	1,227	75	1,679	70
Electric Light Export Licenses	275	00	75	00	25	00		
Electrical Standard of Laboratory	34	75						
Law Stamps (Supreme Court)	1,727	90						
" (Exchequer Court)	4,194	00						
" (Yukon Territorial Court)								
Patent Medicines Fees	1,126	00	260	00	30	00	50	00
Adulteration of Food	153	00	74	00			30	00
Fertilizers Fees	549	00	71	00	20	00	160	00
Commercial Feeding Stuffs	301	00	46	00				
Methylated Spirits	81,468	13	29,700	23	525	51	397	02
Testing Milk Glasses Revenue	1,411	10						
Casual Revenue	254	00						
Totals	6,327,103	97	11,756,022	74	222,553	75	114,750	31

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

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total revenues for the year ended March 31, 1913.

Prince Edward Island.	Manitoba.	Alb. rta.	Saskatchewan.	British Columbia.	Yukon.	Totals.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
12,338 57	1,360,001 42	679,985 66	311,510 17	995,646 09	4,358 24	21,486,491 44
	151 25	100 00		304 00		2,062 86
						784 00
542 68	10,905 39	3,700 22	2,689 10	1,949 20	26 50	100,651 52
						45 00
						62,747 49
50 20	2,809 10	4,698 30		3,596 40		74,833 80
115 35	12,250 50	6,641 90	2,274 90	11,337 55		475 00
				100 00		34 75
						1,727 90
						4,194 00
					1,979 15	1,979 15
						1,601 00
7 00	43 00	18 00	10 00	57 00		327 00
	45 00	15 00	10 00			881 00
	7 00	22 00	13 00	39 00		455 00
	27 00	21 00	22 00	38 00		118,077 77
	4,318 52			1,668 36		1,411 10
						254 00
13,053 80	1,390,558 18	695,172 08	316,529 17	1,016,835 80	6,363 89	21,858,943 69

W. HIMSWORTH,

Deputy Minister.

No. 14.—COMPARATIVE Statement

		April.	May.	June.	July.	August.
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Spirits	(1911-12	583,553 00	626,728 56	621,869 53	583,228 55	716,315 00
	1912-13	702,122 44	726,757 71	678,405 20	667,790 76	784,287 91
Increase		118,569 44	100,029 15	56,535 67	84,562 31	67,972 91
Decrease						
Malt Liquor	(1911-12	9,837 90	8,538 90	5,937 10	7,708 24	7,306 45
	1912-13	17,128 48	8,885 38	10,618 32	17,200 72	13,420 80
Increase		7,290 58	346 48	4,681 22	9,492 48	6,114 35
Decrease						
Malt	(1911-12	138,733 90	168,271 19	171,745 94	165,009 12	167,747 71
	1912-13	166,145 25	176,275 29	171,212 54	200,038 75	176,705 04
Increase		27,411 35	8,004 10		35,029 63	8,957 33
Decrease				533 40		
Tobacco	(1911-12	605,284 78	634,908 65	604,423 78	615,672 98	723,615 11
	1912-13	743,242 72	779,010 39	740,998 09	794,743 20	827,047 16
Increase		137,957 94	144,101 74	136,574 31	179,070 22	103,432 05
Decrease						
Cigars	(1911-12	44,486 57	41,616 08	43,804 98	41,679 29	45,470 87
	1912-13	54,684 10	48,700 16	48,572 14	51,920 30	51,053 95
Increase		10,197 53	7,084 08	4,767 16	10,241 01	5,583 08
Decrease						
Manufactures in Bond	(1911-12	8,240 32	8,378 61	7,166 82	6,687 27	10,659 21
	1912-13	9,074 41	9,976 71	6,990 26	7,493 58	11,388 29
Increase		834 09	1,598 10		806 31	729 08
Decrease				176 56		
Acetic Acid	(1911-12	1,075 43	856 10	786 14	1,235 97	1,229 35
	1912-13	1,098 92	1,114 93	1,421 08	1,206 62	1,377 75
Increase		23 49	258 83	634 94		148 40
Decrease					29 35	
Seizures	(1911-12	36 95	509 75	220 00	10 00	152 50
	1912-13	65 00	113 60	289 05	285 00	5 46
Increase		28 05		69 05	275 00	
Decrease			396 15			147 04
Other Receipts	(1911-12	19,469 20	5,954 58	7,607 10	4,067 85	4,636 09
	1912-13	19,141 95	4,595 25	5,989 62	6,689 79	6,988 55
Increase					2,621 94	2,352 46
Decrease		327 25	1,359 33	1,617 48		
Total Revenue	(1911-12	1,410,718 05	1,495,762 42	1,463,561 39	1,425,299 27	1,677,132 29
	1912-13	1,712,703 27	1,755,429 42	1,664,496 30	1,747,368 72	1,872,274 91
Total Increase		301,985 22	259,667 00	200,934 91	322,069 45	195,142 62
" Decrease						

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REVENUES.

of Receipts for 1911-12 and 1912-13.

September.	October.	November.	December.	January.	February.	March.	Totals.
§ cts.	§ cts.	§ cts.	§ cts.	§ cts.	§ cts.	§ cts.	§ cts.
777,877 90	820,686 73	906,433 56	1,001,686 54	695,580 57	678,737 26	651,948 62	8,667,665 82
794,751 95	82,910 90	948,578 92	1,127,802 80	731,858 74	694,168 76	734,766 23	9,474,142 12
16,874 05	62,224 47	42,125 96	126,416 26	36,277 97	15,374 50	79,817 61	896,476 30
8,219 50	5,272 43	7,004 93	7,195 93	4,986 98	7,012 60	7,735 48	86,796 14
13,656 60	10,380 80	14,548 40	10,990 30	9,549 49	10,764 40	12,313 70	149,437 30
5,417 40	5,108 37	7,543 47	3,794 37	4,992 42	3,751 80	4,578 52	62,681 46
132,671 53	119,831 11	128,578 18	118,332 26	130,759 28	122,465 05	152,398 35	1,716,546 62
133,435 43	127,682 84	136,248 39	145,848 21	142,433 97	143,333 88	145,165 88	1,861,924 57
760 90	7,851 73	7,679 21	27,515 95	11,073 79	29,868 8	7,232 47	147,977 95
684,428 21	747,433 71	773,481 11	691,134 29	679,746 37	794,978 57	695,368 44	8,139,776 00
754,122 40	867,434 82	836,250 45	642,315 50	791,397 21	809,885 08	611,833 94	9,192,189 96
69,694 49	120,001 11	56,799 34	41,181 21	111,859 84	44,696 51	83,834 50	1,061,494 96
15,293 49	44,522 57	47,292 47	44,277 15	36,566 18	39,018 26	43,078 22	517,645 83
47,532 92	56,169 59	55,983 60	52,155 85	44,889 29	42,246 31	48,369 49	602,268 79
2,239 43	11,647 02	8,691 43	7,878 79	8,374 41	2,628 05	5,291 27	81,622 87
10,601 73	9,641 63	5,434 55	4,712 43	4,095 81	3,664 96	6,037 97	84,729 41
12,461 74	12,465 11	7,155 69	3,569 93	2,869 61	3,291 97	4,913 00	94,460 37
1,859 98	2,763 48	1,721 14	1,203 40	1,265 20	227 01	1,124 97	6,799 96
1,264 73	2,377 59	1,269 66	189 12	496 24	173 80	354 82	11,299 95
1,042 53	528 02	726 15	556 22	549 98	539 95	363 45	10,525 60
222 20	1,849 57	543 51	367 10	59 74	366 15	11 63	774 35
116 00	250 00	41 45	273 30	499 00	44 19	485 60	2,319 74
214 50	250 00	25 00	355 25	100 00	60 00	300 00	2,062 86
68 50	250 00	16 45	81 95	306 00	15 81	485 60	256 88
7,861 25	5,642 04	9,338 74	5,496 60	6,776 61	6,866 71	7,032 34	96,659 11
8,924 47	8,392 34	9,532 93	7,882 90	12,173 97	6,226 39	6,845 22	103,379 69
1,060 22	2,750 30	193 29	2,476 30	5,397 96	640 41	187 12	12,749 98
1,668,367 34	1,755,107 81	1,878,894 35	1,783,267 62	1,559,342 04	1,622,961 40	1,567,735 64	19,368,389 62
1,766,119 51	1,966,154 42	2,093,048 63	1,991,416 96	1,735,942 77	1,719,156 65	1,564,879 91	21,489,981 57
97,752 17	210,746 61	124,154 28	208,208 44	176,699 73	87,135 25	2,864 73	2,181,591 95

W. HILMSWORTH,
Deputy Minister.

No. 15.—REFUNDS OF Revenue during the fiscal year ended March 31, 1913

EXCISE.

Articles.	To whom paid.	Date.	Divisions.	Under what Authority Refunded.	Amounts.		Totals.	
					£	cts.	£	cts.
1912.								
Spirits.....	Parke, Davis & Co	April 19	Windsor.....	Refunded under Revised Statutes, cap. 51, sec. 254.....	298	61		
"	"	May 8	"	"	51	"	254	
"	"	May 20	"	"	51	"	254	
"	"	May 27	"	"	51	"	254	
"	"	June 6	"	"	51	"	254	
"	"	June 10	"	"	51	"	254	
"	"	June 17	"	"	51	"	254	
"	"	June 25	"	"	51	"	254	
"	British Columbia Distillery Co., Ltd	July 25	Vancouver.....	"	24	"	92	
"	Parke, Davis & Co	July 3	Windsor.....	"	51	"	254	
"	"	July 9	"	"	51	"	254	
"	"	July 15	"	"	51	"	254	
"	"	July 23	"	"	51	"	254	
"	"	Aug. 6	"	"	51	"	254	
"	"	Aug. 13	"	"	51	"	254	
"	"	Aug. 26	"	"	51	"	254	
"	"	Sept. 3	"	"	51	"	254	
"	"	Sept. 10	"	"	51	"	254	
"	"	Sept. 24	"	"	51	"	254	
"	"	Oct. 1	"	"	51	"	254	
"	"	Oct. 14	"	"	51	"	254	
"	"	Oct. 30	"	"	51	"	254	
"	General Distilling Co., Ltd	Nov. 5	Toronto.....	"	24	"	92	
"	Parke, Davis & Co	Nov. 5	Windsor.....	"	51	"	254	
"	"	Nov. 12	"	"	51	"	254	
"	Hamilton, J. S. & Co.	Nov. 28	Bramford.....	"	51	"	254	
"	Parke, Davis & Co.	Dec. 2	Windsor.....	"	51	"	254	
"	"	Dec. 19	"	"	51	"	254	
"	"	Dec. 30	"	"	51	"	254	
1913.								
"	"	Jan. 13	"	"	51	"	254	
"	"	Jan. 21	"	"	51	"	254	
"	"	Jan. 27	"	"	51	"	254	
"	"	Jan. 28	"	"	24	"	92	
"	Hiram Walker & Sons, Ltd.	"	"	"	494	73		
"	"	"	"	"	475	02		
"	"	"	"	"	142	36		
"	"	"	"	"	58	50		

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Company Name	Month	Day	Location	Refunded under Revised Statutes, cap. 21 sec. 92	Less Refunded by Parke, Davis & Co.	Total
Parke, Davis & Co.	Feb.	3	"	"	"	153 40
"	"	10	"	"	"	108 20
"	"	17	"	"	"	116 58
"	"	24	"	"	"	58 01
"	Mar.	3	"	"	"	38 24
"	"	10	"	"	"	753 65
"	"	17	"	"	"	447 86
"	"	25	"	"	"	307 13
"	"	31	"	"	"	49 42
Hamilton, J. S. & Co.	April	1	Brantford	"	"	139 57
Parke, Davis & Co.	"	8	Windsor	"	"	585 78
"	"	14	"	"	"	254 10
21,478 69						
18 34						21,460 35
Malt.....	May	2	London.....	Refunded under Revised Statutes, cap. 21 sec. 92	Less Refunded by Parke, Davis & Co.....	63 48
Carling, T. H. Brewery Co., Ltd.	"	6	Hamilton	"	"	958 21
Canada Malting Co.	"	6	"	"	"	1,555 60
Hamilton Brewg. Ass., Ltd.	"	6	"	"	"	990 00
The.....	"	6	Three Rivers	"	"	30 00
Spohard, J. M.	"	8	Prescott	"	"	147 98
Wiser, J. P. & Sons, Ltd.	"	8	"	"	"	367 87
McCarthy, T. C.	"	8	"	"	"	159 42
Boyer & Co's Brewery, Ltd.	"	8	"	"	"	1,612 50
St. Lawrence Brewery, Ltd.	"	8	"	"	"	168 75
Hoeschen Weintzer Brewg. Co., Ltd., The	"	10	Moose Jaw.....	"	"	93 00
Lethbridge B. & M. Co., Ltd., The	"	10	Calgary	"	"	252 00
Victoria Phoenix Brewing Co., Ltd.	"	10	Victoria	"	"	960 00
Vancouver Breweries, Lt. L.	"	10	Vancouver	"	"	883 50
The.....	"	14	"	"	"	415 65
Canadian B. & M. Co., Ltd.	"	20	Quebec	"	"	17 25
National Breweries, Ltd., The	"	20	Guelph	"	"	51 00
Ran Mary	"	21	Montreal	"	"	504 00
National Breweries, Ltd., The	"	21	Calgary	"	"	240 00
Edmonton B. & M. Co., Ltd.	"	21	Quebec	"	"	119 43
The.....	"	22	Vancouver	"	"	60 00
Brasserie Champlain, Ltd., La	"	22	"	"	"	341 93
Robitaille Emrika Distillery, Ltd., The	"	22	"	"	"	15 00
Imperial Brewing Co.	"	22	"	"	"	134 17
Fernis-Fort Steele Brewg. Co., Ltd.	"	22	"	"	"	
Hartinger, F.	"	22	"	"	"	
Elk Valley Brewing Co., Ltd.	"	22	"	"	"	

No. 15.—REFUNDS OF REVENUE—Continued.

EXCISE—Continued.

Articles.	To whom paid.	Date.	Divisions.	Under what Authority Refunded.	Amounts.		Totals.	
					\$	cts.		
Malt—(continued).....		1912.			\$	cts.	\$	cts.
	Mueller & Hesse, Ltd.	May 22	Vancouver.....	Re-refunded under Revised Statutes, cap. 24 sec. 92	22	50	22	50
	Nelson Brewing Co., Ltd. The	" 22	"	"	24	" 92	24	" 92
	Nelson, Nels.	" 22	"	"	24	" 92	24	" 92
	Pheonix Brewing Co., Ltd.	" 22	"	"	24	" 92	24	" 92
	Nelson Brewing Co.	" 22	"	"	24	" 92	24	" 92
	Enterprise Brewing Co., The	" 22	"	"	24	" 92	24	" 92
	Henderson, Hugh.	" 22	"	"	24	" 92	24	" 92
	Mueller, August.	" 22	"	"	24	" 92	24	" 92
	Vancouver Breweries Ltd. The	" 22	"	"	24	" 92	24	" 92
	Canadian B. & M. Co., Ltd.	" 22	"	"	24	" 92	24	" 92
	Walkerville Brewing Co., Ltd.	June 10	Windsor.....	"	24	" 92	24	" 92
	Lethbridge B. & M. Co., Ltd. The	" 12	Calgary	"	51	" 201	51	" 201
	Nelson, Nels.	" 14	Vancouver	"	51	" 201	51	" 201
	National Breweries, Ltd., The	" 14	Montreal	"	51	" 201	51	" 201
	Vancouver Breweries, Ltd. The	" 14	Vancouver	"	51	" 201	51	" 201
	Canadian B. & M. Co., Ltd.	" 14	"	"	51	" 201	51	" 201
	Edmonton B. & M. Co., Ltd. The	" 21	Calgary	"	51	" 201	51	" 201
	Hoeschen Wentzler Brewg. Co., Ltd., The	" 28	Moose Jaw	"	51	" 201	51	" 201
	Port Dover Evaporating Co.	July 3	Brantford	"	51	" 354	51	" 354
	Lethbridge B. & M. Co., Ltd.	" 12	Calgary	"	51	" 201	51	" 201
	National Breweries Ltd., The	" 15	Montreal	"	51	" 201	51	" 201
	Hoeschen Wentzler Brewing Co.	" 15	Moose Jaw	"	51	" 201	51	" 201
	Canadian B. & M. Co., Ltd. Vancouver Breweries, Ltd., The	" 15	Vancouver	"	51	" 201	51	" 201
	Dyson Vinegar Co., The	" 15	"	"	51	" 201	51	" 201
	National Breweries, Ltd., The	Aug. 21	Winnipeg	"	51	" 201	51	" 201
	Hoeschen Wentzler Brewing Co., Ltd.	" 13	Montreal	"	51	" 201	51	" 201
	Lethbridge B. & M. Co., Ltd. The	" 13	Moose Jaw	"	51	" 201	51	" 201
		" 13	Calgary	"	51	" 201	51	" 201

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Calgary Brewing & Malting Co., Ltd.	15..	Calgary	"	51	"	201.....	216 00
Vancouver Breweries, Ltd.	"	"	"	"	"	"	"
The..	15..	Vancouver..	"	51	"	201.....	1,500 00
Canadian B. & M. Co., Ltd.	15..	"	"	51	"	201.....	715 87
Victoria Phoenix Brewg. Co. Sept.	6	Victoria..	"	51	"	201.....	363 00
Leithbridge B. & M. Co., Ltd.	"	"	"	"	"	"	"
The..	11	Calgary	"	51	"	201.....	465 00
Calgary B. & M. Co., Ltd.	"	"	"	"	"	"	"
Canadian B. & M. Co., Ltd.	"	"	"	"	"	"	"
Westminster B. & M. Co.	13..	Vancouver..	"	51	"	201.....	165 00
Vancouver Breweries, Ltd.	13..	"	"	51	"	201.....	788 25
The..	13..	"	"	51	"	201.....	24 00
National Breweries, Ltd., The	"	"	"	"	"	"	"
Hoeschen Wentzler Brewing Co., Ltd.	13..	"	"	51	"	201.....	600 00
Edmonton B. & M. Co., Ltd.	14	Montreal..	"	51	"	201.....	216 00
The..	14	"	"	51	"	201.....	421 50
Leithbridge B. & M. Co., Ltd.	9	Moose-Jaw..	"	51	"	201.....	1,008 00
Calgary B. & M. Co., Ltd.	9	Calgary	"	51	"	201.....	372 00
The..	9..	"	"	51	"	201.....	157 50
Hoeschen & Wentzler B. Co., Ltd.	"	"	"	"	"	"	"
Vancouver Breweries, Ltd.	11	Moose-Jaw..	"	51	"	201.....	111 00
Canadian B. & M. Co., Ltd.	11	Vancouver..	"	51	"	201.....	960 00
National Breweries, Ltd., The	"	"	"	"	"	"	"
Dyson Vinegar Co., The	15	Montreal..	"	51	"	201.....	1,170 00
Edmonton B. & M. Co., Ltd.	15	Winnipeg..	"	51	"	201.....	162 00
The..	15	"	"	51	"	201.....	1,206 00
Leithbridge B. & M. Co., Ltd.	Nov.	Calgary	"	51	"	201.....	288 00
Calgary B. & M. Co., Ltd.	"	"	"	"	"	"	"
The..	11	"	"	51	"	201.....	327 00
Hoeschen & Wentzler B. Co., Ltd.	"	"	"	"	"	"	"
Vancouver Breweries, Ltd.	12	Moose-Jaw..	"	51	"	201.....	127 50
The..	12..	"	"	51	"	201.....	58 50
Westminster B. & M. Co.	"	"	"	"	"	"	"
Le Roi Brewing Co., The	12	Vancouver..	"	51	"	201.....	510 00
Canadian B. & M. Co., Ltd.	"	"	"	"	"	"	"
National Breweries, Ltd., The	12	"	"	51	"	201.....	21 00
"	"	"	"	51	"	201.....	30 00
"	"	"	"	51	"	201.....	865 50
"	20	Montreal..	"	51	"	201.....	108 00
"	29	Quebec.....	"	24	"	92.....	200 68
"	"	"	"	21	"	92.....	115 65
Hoeschen & Wentzler B. Co., Ltd.	Dec.	Moose-Jaw..	"	51	"	201.....	201 75
Calgary B. & M. Co., Ltd.	"	"	"	"	"	"	"
The..	12..	Calgary	"	51	"	201.....	132 00
Edmonton B. & M. Co., Ltd.	"	"	"	"	"	"	"
The..	12..	"	"	51	"	201.....	108 00

No. 15.—REFUNDS OF REVENUE—Continued.

EXCISE—Continued.

Articles.	To whom paid.	Date.	Divisions.	Under what Authority refunded.	Amount.		Totals.	
					\$	cts.	\$	cts.
Malt—Continued.		1912.						
National Breweries Ltd., The		Dec.	Montreal.	Refunded under Revised Statutes, cap. 51 sec. 201.	162	00		
Vancouver Breweries, Ltd., The		"	Vancouver.	"	540	00		
Canadian B. & M. Co., Ltd.		"	"	"	1,654	50		
Lethbridge B. & M. Co., Ltd., The.		"	Calgary	"	465	00		
		1913.						
Hoeschen & Wentzler B. Co., Ltd.		Jan.	Moose Jaw.	"	380	25		
Edmonton B. & M. Co., Ltd.		"	"	"	288	00		
Lethbridge B. & M. Co., Ltd.		"	Calgary	"	540	00		
Calgary B. & M. Co., Ltd., The.		"	"	"	132	00		
Mountain Spring Brewg. Co., Ltd.		"	"	"	280	50		
National Breweries, Ltd.		"	Montreal.	"	54	00		
Vancouver Breweries, Ltd., The.		"	Vancouver.	"	300	00		
Canadian B. & M. Co., Ltd.		"	"	"	427	50		
Henderson, H.		"	"	"	21	00		
Nelson, Nels.		"	"	"	24	00		
Dyson Vinegar Co., The		"	Winnipeg	"	1,350	00		
Wilson, Lytle, Badgerow Co., Ltd.		"	Toronto	"	599	45		
Victoria Phoenix Brg. Co., Ltd., The.		"	Victoria	"	456	00		
Hoeschen & Wentzler B. Co., Ltd.		Feb.	Moose Jaw.	"	174	67		
Edmonton B. & M. Co., Ltd., The.		"	Calgary	"	216	00		
Lethbridge B. & M. Co., Ltd.		"	"	"	360	00		
Calgary B. & M. Co., Ltd.		"	"	"	103	13		
Vancouver Breweries, Ltd., The.		"	Vancouver	"	360	00		
Canadian Brewg. & M. Co., Ltd.		"	"	"	769	50		
Henderson, H.		"	"	"	30	00		

SESSIONAL PAPER No. 12

National Breweries, Ltd.	"	18.	Montreal.	"	201	108 00
Rau Mary.	"	10.	Guelph.	"	254	44 94
Edmonton B. & M. Co., Ltd.	"	12.	Calgary	"	201	72 00
Lethbridge B. & M. Co., Ltd.	"	12.	"	"	201	270 00
Calgary B. & M. Co., Ltd.	"	12.	"	"	201	309 37
Mountain Spring Brewg. Co., Ltd.	"	12.	Vancouver.	"	201	193 50
Vancouver Breweries, Ltd.	"	12.	"	"	201	360 00
Canadian B. & M. Co., Ltd.	"	12.	"	"	201	769 50
Hooschen & Wentzler B. Co., Ltd.	"	13.	Mouse Jaw.	"	201	230 85
National Breweries, Ltd., The	"	14.	Montreal.	"	201	108 00
Spensard, J. M.	April	1.	Three Rivers.	"	92	18 90
Edmonton B. & M. Co., Ltd.	"	11.	Calgary	"	201	300 00
Lethbridge B. & M. Co., Ltd.	"	11.	"	"	201	540 00
Calgary B. & M. Co., Ltd.	"	11.	"	"	201	206 25
Mountain Spring Brewg. Co., Ltd.	"	11.	"	"	201	43 80
Corby H. Distillery Co., Ltd.	"	11.	Belleville	"	92	429 00
Roy, J. A.	"	11.	"	"	92	107 20
Oland, J. C.	"	11.	Brantford	"	92	37 49
Riviel, A.	"	11.	"	"	92	437 10
Fisher, John.	"	11.	Kingston	"	92	174 83
Stevenson, R.	"	11.	"	"	92	145 84
Labatt, John.	"	11.	London.	"	92	1,504 22
Carling, T. H.	"	11.	"	"	92	1,779 13
Hamilton, Jos.	"	11.	"	"	92	121 50
Begg, G. E.	"	11.	"	"	92	181 50
Capital Brewg. Co., Ltd., The	"	11.	Ottawa	"	92	858 82
Blake & Dunne.	"	11.	"	"	92	109 08
Sudbury B. & M. Co., Ltd.	"	11.	Perth	"	92	1,372 50
New Ontario Brewg. Co.	"	11.	"	"	92	225 00
Superior B. & M. Co., Ltd.	"	11.	Port Arthur	"	92	316 50
Lakewood Brewery Co.	"	11.	"	"	92	316 50
Kakabeka Falls Brewery Co., Ltd., The.	"	11.	"	"	92	115 35
Wisner, J. F. & Sons, Ltd.	"	11.	Prescott	"	92	810 00
St. Lawrence Brewery Ltd.	"	11.	"	"	92	218 25
McCarthy, T. C.	"	11.	"	"	92	1,046 00
Bowie & Co's. Brewery Ltd.	"	11.	"	"	92	311 76
Devlin, F.	"	11.	Stratford.	"	92	150 00
Canada Malting Co., Ltd., The	"	11.	"	"	92	108 00
Watson, John	"	11.	"	"	92	220 43
Hiram Walker & Sons, Ltd.	"	11.	Windsor	"	92	173 17
Irion, A. L.	"	11.	"	"	92	1,765 56
Wakerville Brewing Co., The	"	11.	"	"	92	555 00
St. Hyacinthe Distillery Co., Ltd., The.	"	11.	St. Hyacinthe	"	92	221 25
	"	11.	"	"	92	106 50

No. 15.—REFUNDS OF REVENUE—Continued.

EXCISE—Continued.

Articles.	To whom paid.	Date.	Divisions.	Under what Authority Refunded.	Amounts.	
					\$ cts.	/ \$ cts.
1913.						
Malt—Continued....	Silver Spring Brewery, Ltd., Jones-Sanson.....	April 11.	Shebrooke.....	Refunded under Revised Statutes, cap. 24, sec. 92.	677 17	
	Reedy, Jas. (Estate of).....	" 11.	St. John.....	" " " " " " " "	270 00	92
	Dyson Vinegar Co.....	" 11.	" " " " " " " "	" " " " " " " "	720 00	92
	Wilson Lytic Tadpolew Co, Ltd., The.....	" 11.	Winnipeg.....	" " " " " " " "	1,242 00	201
	National Breweries Ltd., The	" 15.	Toronto.....	" " " " " " " "	198 14	201
	Hoeschen & Wentzler Brew- ing Co., Ltd.....	" 16.	Montreal.....	" " " " " " " "	51 00	201
	Vancouver Breweries Ltd.....	" 16.	Moose Jaw.....	" " " " " " " "	87 75	201
	Canadian M. & B. Co., Ltd.	" 16.	Vancouver.....	" " " " " " " "	517 50	201
	Victoria Phoenix Brewing Co., Ltd.....	" 16.	" " " " " " " "	" " " " " " " "	940 50	201
	Hamilton Brewing Assn., Ltd., The.....	" 16.	Victoria.....	" " " " " " " "	171 00	201
	Grants Spring Brewery Co., Ltd.....	" 16.	Hamilton.....	" " " " " " " "	930 00	92
	Canada Malting Co.....	" 16.	" " " " " " " "	" " " " " " " "	798 54	92
	Faton, Chris.....	" 16.	Quebec.....	" " " " " " " "	1,621 69	92
	Schwan W.....	" 16.	Owen Sound.....	" " " " " " " "	102 33	92
	Schwan, V.....	" 16.	" " " " " " " "	" " " " " " " "	34 20	92
	Huerher, J. C.....	" 16.	" " " " " " " "	" " " " " " " "	6 67	92
	Heisz & Tieble.....	" 16.	" " " " " " " "	" " " " " " " "	85 50	92
	Farquharson & Grainger.....	" 16.	" " " " " " " "	" " " " " " " "	124 21	92
	Taylor & Bate.....	" 16.	" " " " " " " "	" " " " " " " "	59 70	92
	White, T. F.....	" 16.	St. Catharines.....	" " " " " " " "	696 06	92
	Keith, D.....	" 16.	" " " " " " " "	" " " " " " " "	329 20	92
	Halifax Breweries Ltd.....	" 16.	Halifax.....	" " " " " " " "	1,358 88	92
	Oland & Son.....	" 16.	" " " " " " " "	" " " " " " " "	584 77	92
	Silver Spring Brewery Ltd.....	" 16.	Victoria.....	" " " " " " " "	253 09	92
	Union Brewing Co., Ltd.....	" 16.	" " " " " " " "	" " " " " " " "	832 50	92
	Victoria Phoenix Brewing Co., Pilsener Brewing Co.....	" 16.	" " " " " " " "	" " " " " " " "	438 32	92
	Sleeman, H. O.....	" 21.	Quebec.....	" " " " " " " "	1,080 00	92
	Sleeman, G. A.....	" 21.	" " " " " " " "	" " " " " " " "	120 00	92
	Holiday, Wm. R.....	" 21.	" " " " " " " "	" " " " " " " "	240 23	92
	Berlin Lion Brewery, Ltd., The.....	" 21.	" " " " " " " "	" " " " " " " "	320 40	92
		" 21.	" " " " " " " "	" " " " " " " "	381 87	92
		" 21.	" " " " " " " "	" " " " " " " "	1,176 45	92

SESSIONAL PAPER No. 12

	21	24	92	51
Jutz, W. H.	"	"	"	18
Rau Mary	21	24	92	36
Bernhardt, V. P.	21	24	92	67
Seagram, J. E.	21	24	92	60
Bauer, A.	21	24	92	82
Moosejaw B. & M. Co.	21	24	92	50
Golden Lion Brewing Co., Ltd.	21	24	92	08
Regina B. & M. Co., Ltd., The	21	24	92	00
Hoeschen & Wentzler Brew	"	"	"	"
ery Co., Ltd.	21	24	92	50
Galcutt, H.	21	24	92	50
Simpson, W. H. (Estate of)	21	24	92	72
Barric-Malting & Extract Co.,	21	24	92	00
Ltd., The	21	24	92	00
Kemp, D. C.	25	24	92	02
Wright, A. J.	25	24	92	06
See Falls Brewing Co., Ltd.	21	24	92	17
Hornman Brewing Co.	21	24	92	00
Cosgrave Brewing Co., Ltd.	21	24	92	00
Copland Brewing Co., Ltd.	21	24	92	70
Dominion Brewery Co., Ltd.	21	24	92	68
The	21	24	92	00
Rombach, E.	25	24	92	81
Toronto B. & M. Co., Ltd.	25	24	92	40
Gold Lion Brewing Co., Ltd.	25	24	92	02
Molson, H.	25	24	92	00
Canada Malting Co., Ltd., The	25	24	92	75
National Breweries, Ltd.	25	24	92	43
Beassac-Champlain, Ltd., La	25	24	92	84
Bramble Brewing Co., Ltd.	25	24	92	11
The	25	24	92	00
Empire Brewing Co., Ltd.	25	24	92	63
The	25	24	92	08
Rice Malting Co. of Canada	25	24	92	92
Brewery, E. L.	25	24	92	08
Canada Malting Co., Ltd., The	25	24	92	85
Montreal	25	24	92	90
Calgary	25	24	92	50
Montreal	25	24	92	25
Golden West Brewing Co.,	25	24	92	25
Ltd.	25	24	92	56
Calgary B. & M. Co., Ltd.	25	24	92	56
The	25	24	92	50
Leithbridge B. & M. Co., Ltd.	25	24	92	50
The	25	24	92	08
Goodman & Worth, Ltd.	25	24	92	25
Edmonton B. & M. Co., Ltd.	25	24	92	00
Strathcona B. & M. Co., Ltd.	25	24	92	00
Kerrigan, Jas.	25	24	92	00
Fort	25	24	92	72
Stoll Brewing	"	"	"	"
Co., Ltd.	25	24	92	72

No. 15.—REFUNDS OF REVENUE—*Concluded.*

EXCISE—*Concluded.*

Articles.	To whom paid.	Date.	Divisions.	Under what Authority Refunded.	Amounts.	Totals.
					\$ cts.	\$ cts.
Malt—(<i>Continued</i>)		1912.	Vancover	Refunded under Revised Statutes cap. 24 sec. 92....	15 00	
	Hartinger, F.	April 29		" " " 24 " 92.....	155 96	
	Elk Valley Brewing Co., The	" 29		" " " 24 " 92.....	30 00	
	Mueller & Hesse	" 29		" " " 24 " 92.....	52 50	
	British Columbia Distillery, Ltd.	" 29		" " " 24 " 92.....	525 00	
	Nelson, Nels.	" 29		" " " 24 " 92.....	189 00	
	Nelson Brewing Co., Ltd., The	" 29		" " " 24 " 92.....	120 00	
	Phoenix Brewing Co.,	" 29		" " " 24 " 92.....	77 60	
	Enterprise Brewing Co., The	" 29		" " " 24 " 92.....	37 50	
	Nelson Brewing Co., Ltd., The	" 29		" " " 24 " 92.....	71 54	
	Henderson, H.	" 29		" " " 24 " 92.....	60 00	
	Mueller, Aug.	" 29		" " " 24 " 92.....	96 00	
	Imperial Brewing Co., Ltd.	" 29		" " " 24 " 92.....	1,427 46	
	Canadian B. & M. Co., Ltd.	" 29		" " " 24 " 92.....	2,017 50	
	Vancover Breweries Ltd., The	" 29		" " " 24 " 92.....	134,380 67	
				Less refunded by the National Breweries, Ltd.	415 65	133,965 02
Tobacco.....	Henry James	Oct. 7	Montreal	Refunded under Revised Statutes, cap. 24, sec. 92....	8 90	
	National Shuff Co., Ltd.....	" 14	"	" " " 24 " 92.....	400 00	
		1913				
	Hawkins, C. F.	Jan. 16	"	" " " 24 " 92.....	20 34	
	Owen Sound Cigar Co.	Mar. 18	Owen Sound	" " " 24 " 92.....	2 80	
	Cooke, H. E. & Co.	" 18	"	" " " 24 " 92.....	10 08	
	"	April 21	"	" " " 24 " 92.....	11 76	
Officers' salary.....	Larue, L.	May 6	Montreal	" " " 24 " 92.....	300 00	453 88

No. 16.—DEPARTMENTAL EXPENDITURES FOR 1912-1913.

DR.

CR.

Due by sundry persons, April 1, 1912.	Deductions for			Totals.	Salaries.	Contingen- cies.	Due by sundry persons, March 31, 1913.	Totals.
	Disbursed by the Receiver General.	Superan- nuation.	Insur- ance.						Retire- ment.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
7,000 00	7,000 00			7,000 00	7,000 00			7,000 00
89,597 99	508 75	423 90	2,877 68	93,408 32	93,408 32			93,408 32
407 13				407 13		407 13		89,815 45
3,624 66				3,624 66		3,624 66		3,624 66
173 97				173 97		173 97		3,824 66
50 75				50 75		50 75		3,875 41
1,711 47				1,711 47		1,711 47		5,586 88
1,418 89				1,418 89		1,418 89		7,005 77
850 65				850 65		850 65		7,856 42
16 66				16 66		16 66		8,000 00
16 66	104,885 51	508 75	423 90	2,877 68	100,408 32	8,237 52	16 66	108,662 50
				108,662 50				

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

WEIGHTS AND MEASURES, GAS, ELECTRIC LIGHT AND LAW STAMPS.

No. 17.—STATEMENT showing amount of Revenue accrued during the year ended March 31, 1913.

Dr.

	Weights and Measures Stamps.		Gas Stamps.		Electric Light Stamps.		Law Stamps.			Totals.		
	\$	cts.	\$	cts.	\$	cts.	Supreme Court.	Exchequer Court.	Yukon Territorial Court.			
To amount of stamps in the hands of distributors, April 1, 1912	98,705	78	62,815	20	55,333	10	82	55	7,346	45	221,283	58
To stamps issued by the Inland Revenue Department during the year ended March 31, 1913	129,246	00	106,530	00	140,835	00	1,700	00	4,269	90	383,140	90
Totals	227,951	78	169,345	20	196,228	10	1,782	55	4,269	90	607,424	48

Cr.

By amount of stamps destroyed and returned by distributors	206	90	1,046	75	1,040	85					2,864	50
By commission allowed							22	10			22	10
By amount of stamps remaining in hands of distributors, March 31, 1913	129,984	41	105,553	55	119,833	45	34	65	53	80	358,317	66
By balance being the revenue during the year ended March 31, 1913	160,760	47	62,714	90	71,783	80	1,727	90	4,194	00	1,979	15
Totals	227,951	78	169,345	20	196,228	10	1,782	55	4,269	90	607,424	48

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HENSWORTH,
Deputy Minister.

Cr.

WEIGHTS AND MEASURES, 1912-13.
No. 18 (A.)—INSPECTION DIVISIONS Account with Revenue.

Dr.

Balances due by Inspectors, April 1, 1912.		Stamps Issued to Inspectors.	Other Receipts.	Penalties.	Totals.	Divisions.	Damaged Stamps.	Deposited to the Credit Receiver General.	Balances due by Inspectors, March 31, 1913.		Totals.		
Stamps on hand.	Cash on hand.								Stamps on hand.	Cash on hand.			
\$	cts.	\$	cts.	\$	cts.		\$	cts.	\$	cts.	\$	cts.	
3,886	40	1,900	00		5,786	40		2,365	90	3,420	50	6,786	40
6,378	43	8,070	00		14,473	43		10,162	99	4,310	44	14,473	43
1,652	40	925	00	25	2,577	40		1,519	05	1,058	35	2,577	40
6,397	35	15,230	00		21,687	35	45	10,251	85	11,435	05	21,687	35
6,492	28	4,950	00		11,492	28	46	5,084	37	6,861	81	11,492	28
10,292	19	11,705	00	20	22,019	19		12,807	83	9,211	36	22,019	19
35,039	05	42,840	00	45	78,036	05		42,191	99	35,797	51	78,036	05
27,491	45	28,750	00		56,241	45		13,570	60	42,670	85	56,241	45
3,324	55	6,650	00		9,974	55	40	5,076	30	4,857	50	9,974	55
		9,285	00		9,285	00		6,034	30	3,250	70	9,285	00
5,804	05	1,000	00		6,804	05		3,966	40	2,812	50	6,804	05
1,794	65	610	00		2,404	65		481	10	1,923	55	2,404	65
38,414	70	46,295	00		84,709	70		29,128	70	55,515	10	84,709	70
1,270	89	4,150	00		5,420	89		3,840	23	1,439	36	5,420	89
1,892	86	2,235	00		4,127	86		1,480	67	2,617	19	4,127	86
1,984	99	3,586	00		5,570	99	109	2,141	84	3,319	75	5,570	99
3,877	85	5,821	00		9,698	85		3,622	51	5,906	94	9,698	85
495	40	762	50		1,257	90		542	68	715	22	1,257	90
8,565	14	11,562	50		20,127	64		10,905	89	9,222	25	20,127	64

SESSIONAL PAPER No. 12

1,969 45	8,430 00	4 00	10,403 45	Saskatoon, Sask.	8 70	2,489 10	7,705 65	10,403 45
2,852 25	3,465 00		6,317 25	Calgary, Alta.		3,700 22	2,617 03	6,317 25
554 40	3,045 00		3,599 40	Nelson		1,250 95	2,348 45	3,599 40
3,339 15	2,875 00		6,214 15	Vancouver		2,798 25	3,415 90	6,214 15
3,893 55	5,920 00		9,813 55	British Columbia		4,049 20	5,764 35	9,813 55
2,267 50			2,267 50	Dawson, Yukon		26 50	2,241 00	2,267 50
98,705 78	129,216 00	56 00	228,052 78	Totals	206 90	100,696 52	126,984 41	228,052 78
			10 48	Refund, as per Statement No. 15		10 48		10 48
			228,042 30			100,686 04		228,042 30
			1,411 10			1,411 10		1,411 10
			229,453 40	Milk testing classes		102,697 14		229,453 40

ISLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HUMSWORTH,
Deputy Minister.

WEIGHTS AND MEASURES, 1912-1913.

No. 18 (B).—DEPUTY INSPECTORS of Old Divisions in Account with Revenue.

DR.

CR.

Balances due April 1, 1912.	Totals.	Divisions.	Balances due April 1, 1913.	Totals.
Cash on hand. P.M.			Cash on hand.	
\$ cts.	\$ cts.		\$ cts.	\$ cts.
87 10	87 10	Essex, Ont.....	87 10	87 10
5 62	5 62	Hull, Que.....	5 62	5 62
92 72	92 72		92 72	92 72

W. HIMSWORTH,

*Deputy Minister.*INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

WEIGHTS AND MEASURES—1912-1913.

Cr.

No. 19 (A)—INSPECTION DIVISIONS in Account with Expenditures.

Dr.

Balance due by Inspectors, April 1, 1912.	Deductions from Salaries for				Totals.	Expenditures Authorized by the Department.						Totals.			
	Contribution.	Insurance.	Guarantee.	Retiree.		Salaries.	Special Assistance.	Reizures.	Rent.	Travelling Expenses.	Supplies.		Amounts due by Inspectors, March 31, 1913.		
¢	¢	¢	¢	¢	¢	¢	¢	¢	¢	¢	¢	¢	¢	¢	¢
5,316 69	29 96	.....	8 30	.....	5,354 86	3,322 86	65 00	.....	441 25	1,129 87	104 88	.....	5,354 86	8,925 80	.....
8,912 00	.....	.....	13 80	.....	8,925 80	6,741 29	260 00	.....	.....	1,843 79	140 72	.....	8,925 80	2,815 45	.....
7,809 15	.....	.....	6 30	.....	7,815 45	2,199 30	150 00	.....	.....	317 25	18 30	.....	7,815 45	7,533 79	.....
5,544 34	.....	.....	9 45	.....	5,553 79	4,304 06	611 07	.....	.....	2,083 63	353 03	.....	5,553 79	7,870 67	.....
7,832 13	29 13	.....	9 11	.....	7,870 67	4,260 72	1,685 08	.....	.....	1,849 19	105 68	.....	7,870 67	9,809 89	.....
9,775 61	20 00	.....	13 65	.....	9,809 89	6,866 41	709 99	.....	.....	2,084 77	148 69	.....	9,809 89	.....	.....
42,189 86	79 99	.....	60 61	.....	42,330 46	27,895 27	3,421 14	.....	441 25	9,369 50	1,263 30	.....	42,330 46	.....	.....
13,069 86	22 96	.....	16 05	.....	13,099 87	8,420 70	620 00	.....	.....	2,433 49	245 68	.....	13,099 87	12,611 91	.....
12,538 66	38 40	.....	11 83	.....	12,611 91	5,099 72	2,604 16	.....	1,350 00	2,326 83	214 53	.....	12,611 91	5,823 27	.....
5,816 37	.....	.....	6 90	.....	5,823 27	3,233 16	1,188 20	.....	306 67	1,286 01	115 90	.....	5,823 27	1,911 61	.....
1,840 24	.....	.....	5 40	.....	1,845 64	1,065 47	.....	.....	.....	192 88	53 29	.....	1,911 61	1,037 57	.....
4,034 27	.....	.....	3 30	.....	4,037 57	1,266 69	1,246 41	.....	325 00	954 37	248 11	.....	4,037 57	.....	.....
37,310 40	61 36	.....	66 00	.....	37,437 76	21,685 70	5,688 77	.....	2,041 67	7,190 58	877 51	.....	37,437 76	.....	.....
5,212 90	.....	.....	8 40	.....	5,221 30	3,309 82	800 00	.....	.....	974 68	46 80	.....	5,221 30	.....	.....
4,654 66	.....	.....	6 60	.....	4,661 26	2,199 88	1,059 92	.....	507 36	709 64	124 36	.....	4,661 26	.....	.....
4,425 25	24 00	.....	5 40	.....	4,454 65	2,100 00	1,248 00	.....	.....	945 90	190 75	.....	4,454 65	.....	.....
9,079 79	24 00	.....	12 00	.....	9,115 79	4,269 88	2,277 92	.....	507 36	1,715 54	315 09	.....	9,115 79	.....	.....
2,192 49	.....	.....	5 40	.....	2,197 89	1,858 25	60 00	.....	.....	251 01	28 65	.....	2,197 89	.....	.....

WEIGHTS AND MEASURES—1912-1913.
No. 19 (A)—INSPECTION DIVISIONS in Account with Expenditures.

Cr.

Balances due by Inspectors, April 1, 1912.	Amounts received from Department to meet Expenditures.	Deductions from Salaries for			Totals.	Divisions.	Expenditures Authorized by the Department.						Amounts due by Inspectors, March 31, 1913.	Totals.
		Superannuation.	Insurance.	Guarantee.			Salaries.	Special Assistance.	Seizures.	Rent.	Traveling Expenses.	Sundries.		
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
8,845 77	8,845 77		12 00		8,858 37	Winnipeg, Man.....	5,416 43	593 90				2,556 15	291 89	8,858 37
4,827 26	4,827 26	27 20		5 85	4,860 31	Calgary, Alberta.....	2,545 75	343 00				1,904 70	66 86	4,860 31
5,015 78	5,015 78			3 70	5,023 18	Saskatoon.....	1,800 06	1,238 74				1,448 33	532 35	5,023 18
2,879 81	2,879 81		3 66		2,883 41	Nelson.....	1,249 92	173 47		15 00		1,292 40	152 62	2,883 41
3,835 62	3,835 62		8 40		3,835 02	Vancouver.....	3,166 52	12 00	0 75			290 05	455 70	3,835 02
6,706 43	6,706 43			12 00	6,718 43	British Columbia.....	4,416 44	185 47	0 75	15 00		1,492 45	608 32	6,718 43
1,028 65	1,028 65			3 60	1,032 25	Dawson, Yukon.....	1,000 00					24 00	8 25	1,032 25
122,409 33	122,409 33	192 55	66 00	170 66	122,842 24		74,317 60	14,608 94	0 75	3,005 28		26,926 94	3,979 03	122,842 24
170 63	170 63				170 63	Chief Inspector.....		46 80				76 35	47 48	170 63
4,936 82	4,936 82				4,936 82	General Contingencies.....							4,936 82	4,936 82
1,290 70	1,290 70				1,290 70	Printing.....							1,290 70	1,290 70
549 65	549 65				549 65	Stationery.....							549 65	549 65
1,432 37	1,432 37				1,432 37	Provisional allowance.....							1,432 37	1,432 37
216 00	216 00				216 00	International Bureau of Weights & Measures.....							216 00	216 00
130,915 50	130,915 50	192 55	66 00	170 66	131,348 41	Grand totals.....	174,317 60	14,655 74	0 75	3,005 28		27,003 29	12,362 05	131,348 41

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

SESSIONAL PAPER No. 12

WEIGHTS AND MEASURES, 1912-1913.

DR. No. 19 (B).—OLD INSPECTION DIVISIONS in Account with Expenditures. CR.

Balances due by sundry persons, April 1, 1912.		Divisions.	Balances due by sundry persons, March 31, 1913.	
Totals.	Totals.			
\$ cts.	\$ cts.		\$ cts.	\$ cts.
39 56	39 56	Essex.....	39 56	39 56
33 53	33 53	Waterloo.....	33 53	33 53
73 09	73 09	..... Ontario.....	73 09	73 09
0 33	0 33	Drummond.....	0 33	0 33
41 45	41 45	Laval.....	41 45	41 45
26 88	26 88	Montmorency.....	26 88	26 88
27 51	27 51	Richelieu.....	27 51	27 51
96 17	96 17	..... Quebec.....	96 17	96 17
24 00	24 00	Lunenburg, Nova Scotia.....	24 00	24 00
193 26	193 26	Totals.....	193 26	193 26

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

GAS INSPECTION, 1912-1913.

No. 20.—INSPECTION DISTRICTS IN ACCOUNT WITH REVENUE.

Cr.

Balances due by Inspectors, March 31, 1912.		Stamps issued to Inspectors.	Other Receipts.		Totals.	Districts.	Damaged Stamps.	Deposited to the credit of the Receiver General.		Balances due by Inspectors, March 31, 1913.		Totals.
Stamps on hand.	Cash on hand.		\$	cts.				\$	cts.	\$	cts.	
1,035 90					1,035 90	Barré		136 20	899 70		1,035 90	
723 25					723 25	Belleville		156 23	567 05		723 25	
1,621 30		480 00			2,101 30	Berlin		558 60	1,542 70		2,101 30	
1,169 70		1,400 00			2,569 70	Brockville		163 20	2,406 50		2,569 70	
296 05		180 00			476 05	Cobourg		173 60	302 45		476 05	
249 00		700 00			949 00	Cornwall		94 20	854 80		949 00	
853 25		600 00			1,453 25	Geelph.		636 00	817 25		1,453 25	
4,811 50		9,300 00			14,111 50	Hamilton		7,638 70	6,472 80		14,111 50	
729 30		1,540 00			2,469 30	Kingston		470 00	1,999 30		2,469 30	
248 30					248 30	Listowel		33 00	215 30		248 30	
2,763 90		5,000 00			7,763 90	London		3,821 70	3,882 20		7,763 90	
213 50					213 50	Napawee		18 00	195 50		213 50	
5,898 05		900 00			6,898 05	Ottawa		1,810 10	5,087 95		6,898 05	
472 00		300 00			772 00	Owen Sound		242 20	529 80		772 00	
1,175 55					1,175 55	Peterborough		317 20	858 35		1,175 55	
949 90		500 00			1,449 90	Sarnia		414 50	1,035 40		1,449 90	
1,176 45		800 00			1,976 45	Stratford		197 40	1,819 05		1,976 45	
8,733 45		13,200 00			21,933 45	Toronto		15,013 20	6,980 25		21,993 45	
1,181 15		340 00			1,421 15	Woodstock		319 20	1,101 95		1,421 15	
31,391 50		35,440 00			69,741 50	Ontario		32,173 20	37,568 30		69,741 50	
7,562 90		12,300 00	2 50		19,865 40	Montreal		17,118 70	2,746 70		19,865 40	
2,487 40		1,450 00			3,937 40	Quebec		685 80	3,251 60		3,937 40	
670 60					670 60	Sharbrooke		144 00	526 60		670 60	
1,096 80					1,096 80	St. Hyacinthe		102 00	994 80		1,096 80	
11,817 70		13,750 00	2 50		25,570 20	Quebec		18,050 50	7,519 70		25,570 20	
575 75					575 75	Fredericton			575 75		575 75	
462 95		1,380 00			1,842 95	St. John		1,054 70	788 25		1,842 95	

4 GEORGE V., A. 1914

GAS INSPEC

DR.

No. 21.—INSPECTION DISTRICTS IN

Balances due by Inspectors, April 1, 1912.	Amounts received from Department to meet Expenditures.	Deductions from Salaries for			Totals.	Districts.
		Superannuation.	Retirement.	Guarantee.		
¢ cts.	¢ cts.	¢ cts.	¢ cts.	¢ cts.	¢ cts.	
	94 40	2 00		3 60	100 00	Barrie.....
	574 50	6 05		2 85	583 40	Belleville.....
	297 45			3 60	301 05	Berlin.....
	233 24	2 00		3 60	238 84	Cobourg.....
	328 43	6 00		3 60	338 03	Guelph.....
	3,215 92			5 56	3,221 48	Hamilton.....
	163 90			3 60	167 50	Listowel.....
	3,135 99			5 40	3,141 39	London.....
	5,667 25			10 81	5,678 06	Ottawa.....
	196 40			3 60	200 00	Owen Sound.....
	146 40			3 60	150 00	Peterborough.....
	200 15			3 60	203 75	Sarnia.....
	216 02	0 33		3 60	219 95	Stratford.....
	9,446 22		79 92	14 85	9,540 99	Toronto.....
	211 20			1 80	213 00	Woodstock.....
	24,127 47	16 38	79 92	73 67	24,297 44	Ontario.....
	5,709 67			11 46	5,721 13	Montreal.....
	2,495 92	23 51		7 20	2,526 63	Quebec.....
	340 56	3 96		5 40	349 92	Sherbrooke.....
	98 20			1 80	100 00	St. Hyacinthe.....
	8,644 35	27 47		25 86	8,697 68	Quebec.....
	98 20			1 80	100 00	Fredericton.....
	1,502 35			3 60	1,505 95	St. John.....
	1,600 55			5 40	1,605 95	New Brunswick.....
	3,077 74	1 92		7 20	3,086 86	Halifax.....
12 88					12 88	Pictou.....
12 88	3,077 74	1 92		7 20	3,099 74	Nova Scotia.....
	496 40			3 60	500 00	Charlottetown, P.E.I.....
	3,452 08			7 53	3,459 61	Winnipeg, Man.....
	821 25				821 25	Calgary, Alta.....
	96 40			3 60	100 00	Nanaimo.....
	186 36		9 96	3 60	199 92	New Westminster.....
	111 00				111 00	Vancouver.....
	1,027 44	1 50		3 55	1,032 49	Victoria.....
	1,421 20	1 50	9 96	10 75	1,443 41	British Columbia.....
12 88	43,641 01	47 27	89 88	134 01	43,925 08	General.....
200 00					200 00	Eastern Dominion Inspection.....
	291 09				291 09	Western ".....
	42 80				42 80	General Contingencies.....
	824 01				824 01	Printing.....
	4,111 78				4,111 78	Stationery.....
	1,071 61				1,071 61	
212 88	49,982 33	47 27	89 88	134 01	50,466 37	Grand Total.....

INLAND REVENUE DEPARTMENT,

OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

1912-13.

ACCOUNT WITH EXPENDITURES.

CR.

Expenditures Authorized by the Department.					Balances due by Inspectors, March 31, 1913.	Totals.
Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.		
§ cts.	§ cts.	§ cts.	§ cts.	§ cts.	§ cts.	§ cts.
100 00						100 00
304 15	65 00	181 25	28 50	4 50		583 40
200 00	30 00		66 80	4 15		301 05
100 00	24 00		39 25	75 59		238 84
300 00	20 00			18 03		338 03
2,057 71	176 61	120 00	687 38	179 78		3,221 48
100 00	9 00	58 50				167 50
2,492 96	136 98		402 50	41 95		3,111 39
1,106 80	1,025 00	420 00		126 26		5,678 06
200 00						200 00
150 00						150 00
200 00				3 75		203 75
200 00	12 00			7 95		219 95
7,969 67	1,437 81			133 51		9,540 99
200 00	12 00			1 00		213 00
18,688 29	3,008 40	779 75	1,224 53	596 47		24,297 44
5,216 50	66 00	240 00	50 00	148 63		5,721 13
1,579 05	60 00	108 33		679 25		2,526 63
349 92						349 92
100 00						100 00
7,345 47	126 00	348 33	50 00	827 88		8,697 68
100 00						100 00
1,300 00			130 65	75 30		1,505 95
1,400 00			130 65	75 30		1,605 95
2,292 80	35 00	507 36	238 05	6 65		3,086 86
					12 88	12 88
2,292 80	35 00	507 36	238 05	6 65	12 88	3,099 74
500 00						500 00
3,459 61						3,459 61
	546 50		16 50	258 25		821 25
100 00						100 00
199 92						199 92
	32 00			79 00		111 00
1,032 49						1,032 49
1,332 41	32 00			79 00		1,443 41
35,025 58	3,747 90	1,635 44	1,659 73	1,843 55	12 88	43,925 08
			288 85	2 24	200 00	200 00
			18 35	24 45		291 09
				824 01		42 80
				4,111 78		824 01
				1,071 61		4,111 78
						1,071 61
35,025 58	3,747 90	1,635 44	1,966 93	7,877 64	212 88	50,466 37

W. HIMSWORTH,

Deputy Minister.

4 GEORGE V., A. 1914

ELECTRIC LIGHT

Dr.

No. 22.—INSPECTION DISTRICTS

Balances due by Inspectors, March 31, 1912.		Stamps issued to Inspectors.	Other Receipts.	Totals.	Districts.
Stamps on hand.	Cash on hand.				
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
763 20		3,130 00		3,893 20	Belleville
		4,500 00		4,500 00	Fort William
2,138 80		6,200 00		8,338 80	Hamilton
2,227 25		3,620 00		5,847 25	London
5,639 40		3,000 00	50 00	8,689 40	Ottawa
4,614 85		15,250 00		19,864 85	Toronto
15,383 50		35,700 00	50 00	51,133 50	Ontario
5,823 85		10,000 00		15,823 85	Montreal
2,024 45		600 00		2,624 45	Quebec
1,119 60		300 00		1,419 60	Sherbrooke
811 00		300 00		1,111 00	St. Hyacinthe
1,255 50		120 00		1,375 50	Three Rivers
11,034 40		11,320 00		22,354 40	Quebec
1,164 30		975 00		2,139 30	St. John, N.B.
1,686 90		1,575 00		3,261 90	Holifax, N.S.
914 95				914 75	Charlottetown, P.E.I.
5,730 45		60,750 00		66,480 45	Winnipeg, Man.
1,862 60		12,900 00		14,762 60	Regina, Sask.
3,382 60		4,425 00		7,807 60	Calgary
2,954 50		3,300 00		6,254 50	Edmonton
6,337 10		7,725 00		14,062 10	Alberta
7,394 15		7,800 00		15,194 15	Vancouver
2,474 95		2,150 00		4,624 95	Victoria
9,869 10		9,950 00		19,819 10	British Columbia
1,350 00				1,350 00	Yukon
55,333 10		140,895 00	50 00	196,278 10	Totals
				1 50	Refunds as per Statement No. 15.
				196,276 60	Export of Electric Light Licenses Electrical Standards of Laboratory
				475 00	
				34 75	
				196,786 35	

INLAND REVENUE DEPARTMENT,
OTTAWA, JUNE 1, 1913.

SESSIONAL PAPER No. 12
INSPECTION, 1912-1913.
in Account with Revenue.

CR.

Damaged Stamps.	Deposited to the Credit of the Receiver General.	Balances due by Inspectors, March 31, 1913.		Totals.
		Stamps on hand.	Cash on hand.	
§ cts.	§ cts.	§ cts.	§ cts.	§ cts.
	1,888 90	2,004 30		3,893 20
50 00	68 20	4,581 80		4,500 00
129 25	4,339 05	3,879 50		8,338 80
61 00	3,315 80	2,479 45		5,847 25
291 25	3,772 35	4,715 60		8,689 40
180 50	14,445 90	5,238 75		19,864 85
622 00	27,830 10	22,681 40		51,183 50
11 25	9,755 30	6,027 30		15,823 85
24 50	781 80	4,818 15		2,624 45
62 25	592 10	855 25		1,449 60
58 75	258 75	793 50		1,111 00
	147 90	1,227 60		1,375 50
156 75	11,475 85	19,721 84		22,334 40
33 25	1,227 75	878 30		2,139 30
37 25	1,679 70	1,544 95		3,261 90
11 00	115 35	785 40		914 75
500 40	12,250 50	53,729 85		66,480 45
97 50	2,274 90	12,390 20		14,762 60
9 50	3,833 35	3,964 35		7,807 60
101 00	2,898 35	3,345 15		6,234 50
110 50	6,641 90	7,399 70		14,062 10
	9,096 30	6,097 85		15,194 15
39 50	2,241 45	2,344 00		4,624 95
39 50	11,387 75	8,441 85		19,819 10
		1,350 00		1,350 00
1,610 85	74,833 80	119,833 45		196,278 10
	1 50			1 50
	74,832 30			196,276 60
	475 00			475 00
	34 75			34 75
	75,342 05			196,786 35

W. HIMSWORTH,
Deputy Minister.

ELECTRIC LIGHT INSPECTION, 1912-1913.
No. 23.—INSPECTION DISTRICTS in Account with Expenditures.

Due by Inspectors April 1, 1912.	Amounts received from Department to meet expendi- tures.	Guan- tee.	Totals.	Districts.	Expenditures Authorized by the Department.				Balance due by Inspectors March 31, 1913.	Totals.
					Salaries.	Special Assistance.	Rent.	Travelling Expenses.			Sundries.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1,500 04	1,507 67	7 63	1,507 67	Belleville.....	1,036 25	20 00	434 30	17 12	1,507 67	
383 59	384 32	0 73	384 32	Fort William.....	245 16		87 65	49 51	384 32	
673 88	673 88		673 88	Hamilton.....		25 00	228 10	195 63	673 88	
471 74	471 74		471 74	London.....		62 49	371 90	37 35	471 74	
681 80	681 80		681 80	Ottawa.....			681 80		681 80	
1,001 19	1,001 19		1,001 19	Toronto.....			947 45	53 74	1,001 19	
330 61	331 15	0 54	331 15	E. A. Kinsman.....					331 15	
1,165 89	1,165 89		1,165 89	Montreal.....		1,056 91	72 45	36 53	1,165 89	
495 21	495 21		495 21	Quebec.....		60 00	250 06	250 06	495 21	
162 86	162 86		162 86	Sherbrooke.....			143 41	19 45	162 86	
391 60	393 40	1 80	393 40	St. Hyacinthe.....			91 50	1 90	393 40	
735 22	735 22	1 80	735 22	Three Rivers.....		120 00	100 00	15 02	735 22	
223 50	223 50		223 50	St. John.....			202 85	21 15	223 50	
531 12	531 12		531 12	Halifax.....		25 00	419 74	86 38	531 12	
115 72	115 72		115 72	Charlottetown.....		40 00	30 40	45 32	115 72	
3,227 88	3,227 88		3,227 88	Winnipeg.....		2,135 26	571 60	196 02	3,227 88	
2,299 17	2,213 67	4 50	2,213 67	Calgary.....		22 00	280 80	110 87	2,213 67	
1,745 79	1,749 39	3 60	1,749 39	Edmonton.....			151 55	94 84	1,749 39	
2,599 82	2,903 42	3 60	2,903 42	Regina.....			1,104 45	498 97	2,903 42	
6,258 12	6,248 47	10 35	6,248 47	Vancouver.....		849 96	303 19	395 49	6,248 47	
159 45	159 45		159 45	Victoria.....		17 00	104 00	38 45	159 45	
496 40	500 00	3 60	500 00	Yukon.....			500 00		500 00	
1,292 26	1,292 26		1,292 26	Chief Electrical Engineer.....		313 00	140 87	838 39	1,292 26	
2,658 23	2,651 83	3 60	2,651 83	Inspector Eastern Dominion.....			186 85		2,651 83	
3,463 16	3,466 76	3 60	3,466 76	" Western.....			628 35		3,466 76	
8,700 97	8,700 97		8,700 97	General Contingencies.....				8,700 97	8,700 97	
223 68	223 68		223 68	Printing.....				223 68	223 68	
246 47	246 47		246 47	Stationery.....				246 47	246 47	
244 16	244 16		244 16	International Electro-technical Commission.....				244 16	244 16	
300 00	42,367 53	45 35	42,712 88	Totals.....	17,162 44	4,853 87	7,309 52	12,780 80	42,712 88	

INLAND REVENUE DEPARTMENT,

OTTAWA, June 1, 1913.

W. HIMSWORTH,

Deputy Minister.

SESSIONAL PAPER No. 12

No. 24.—STATEMENT showing the Amounts voted and the Expenditures for each service for the year ended March 31, 1913.

Services.	Grants.	Expenditures.	Over Expenditures.		Under Expenditures.	
			§	cts.	§	cts.
Minister's salary.....	7,000 00	7,000 00				
Departmental salaries.....	110,383 29	93,408 32			16,974 97	
" contingencies.....	8,300 00	8,237 52			62 48	
Excise salaries.....	508,000 00	478,120 08			29,879 92	
" contingencies.....	112,000 00	111,511 25			488 75	
Duty pay at large distilleries and other factories.....	15,000 00	13,502 99			1,497 01	
Duty pay other than special survey.....	1,500 00	1,350 00			150 00	
Preventive service, salaries and contingencies.....	13,000 00	10,517 80			2,482 20	
Tobacco stamps.....	123,000 00	119,676 68			3,323 32	
Excise Commission to Customs Officers.....	10,000 00	3,886 87			6,113 13	
Tobacco stamps commission.....	100 00				100 00	
Technical translation.....	200 00	18 01			181 99	
Provisional allowance, Excise.....	10,000 00	8,908 54			1,091 46	
" Weights and Measures.....	3,000 00	1,432 37			1,567 63	
Methylated spirits, contingencies.....	96,000 00	95,993 45			6 55	
Weights and Measures, salaries.....	85,000 00	74,317 60			10,682 40	
" contingencies.....	64,000 00	55,378 74			8,621 26	
Gas and electric light salaries.....	52,200 00	52,188 02			11 98	
" contingencies.....	45,000 00	40,234 19			4,765 81	
Adulteration of food, salaries and contingencies.....	30,000 00	21,974 91			8,025 09	
Minor expenditures.....	500 00	37 20			462 80	
Export of electric power.....	1,000 00	334 45			665 55	
International Bureau of Weights and Measures.....	216 00	216 00				
Proprietary or patent medicines.....	1,500 00	597 93			902 07	
International Electro-Technical Commission.....	250 00	244 16			5 84	
Special vote (H. H. grant).....	200 00	200 00				
	1,297,349 29	1,199,197 08			98,152 21	

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

DR. No. 25—STATEMENT showing the transactions in connection with the manufacture of Methylated Spirits for the year ended March 31, 1913. Cr.

Amounts.		Totals.		Amounts.		Totals.	
\$	cts.	\$	cts.	\$	cts.	\$	cts.
To stock on hand at the end of the year 1912, viz.:							
Alcohol 1,730-19 Proof Galls. at 20c	346	04					
Wood Naphtha 4,860-65 Proof Galls. = 2,910-57 Std. Galls. at 72 cents	2,095	61					
Wood Naphtha 5,689-47 Proof Galls. = 4,127½ Galls. W. M. at 47c.	1,939	92					
Methylated Spirits 124-08 Std. Galls. = 205-50 Proof Galls. viz.:							
42-46 Std. Galls. at 55c	23	85					
81 62 " at 65c	53	65					
Barrels on hand 300 at \$4. Drums 40 at \$10; 4 at \$4	1,616	00					
Pyroline on hand	479	82					
To Methylated Spirits sold and not paid up to March 31, 1912:—							
4,950-81 Std. Galls. = 8,168-58 Proof Galls.:							
1,925-27 " at 55c	1,029	39					
1,235-87 " at 55c	679	72					
43-80 " at 60c	25	28					
807-68 " at 63c	508	82					
632-79 " at 65c	411	30					
305-40 " at 75c	229	06					
Barrels, 74 at \$4; Drums, 20 at \$10.	496	00					
Barrels returned and unpaid for up to March 31, 1912, 141 at \$4.							
Drums returned and unpaid for up to March 31, 1912, 56 at \$10; 1 at \$12							
Alcohol bought and unpaid for up to March 31, 1913 7,531-27 Proof Galls. at 20c							
Barrels, 107 at \$4.							
Disbursements for purchases of material, &c.:—							
Alcohol 234,331-13 Proof Galls. at 20c	1,506	25					
Wood Naphtha 20,603-03 Std. Galls. = 34,475-48 Proof	428	00					
Totals.							
\$	cts.	\$	cts.	\$	cts.	\$	cts.
346	04	6,553	79	118,077	77		
2,095	61						
1,939	92						
23	85						
53	65						
1,616	00						
479	82						
By cash received on account of Methylated Spirits, &c., sold during the year ended March 31, 1913							
Methylated Spirits 18,927-49 Std. Galls. = 246,637-02 Proof Galls.:							
31,690-15 Std. Galls. at 53c	16,779	77					
43,579-83 " at 55c	23,968	84					
1,107-03 " at 60c	664	21					
24,224-24 " at 63c	15,261	65					
32,904-52 " at 65c	21,387	65					
15,451-72 " at 75c	11,588	55					
Barrels, 5,195 at \$4	20,780	00					
Drums 646 at \$10, 1 at \$12, 147 at \$8.	7,648	00					
Can 2 at \$1	2	00					
Totals.							
\$	cts.	\$	cts.	\$	cts.	\$	cts.
118,080	67	118,077	77				
Add 40c. for express charges and deduct \$2.70 for freight.							
Methylated Spirits sold and not paid up to March 31, 1913.							
Std. Galls. = 3,786-05 = Proof Galls. 6,269-73.							
901-04 Std. Galls. at 53c.	477	55					
1,021-61 " at 55c.	561	88					
79-18 " at 60c.	47	51					
876-44 " at 63c.	552	16					
617-14 " at 65c.	401	13					
290-64 " at 75c.	217	98					
Barrels, 62 at \$4; Drums, 12 at \$10.	368	00					
Alcohol bought, taken in stock and unpaid up to March 31, 1912:—							
Alcohol 25,738-46 Proof Galls. at 20c	5,147	69					
Wood Naphtha 5,725-56 Proof Galls. = 3,428-49 Std. Galls. at 72c.	2,468	51					
Barrels, 370 at \$4; Drums 40 at \$10	1,880	00					
Totals.							
\$	cts.	\$	cts.	\$	cts.	\$	cts.
6,553	79	9,496	51	9,496	20		

Stock on hand on March 31, 1913—	
3,957 43 Proof Galls, Methylated Spirits=	
to 1,907 05 Std. Galls.	581 04
1,050 45 Std. Galls. at 55c.	581 89
910 60 " " at 65c.	1,109 43
Alcohol 5,847 13 at 20c.	
Wood Naphtha 1,882 88 Proof Galls. to	
1,120 76 Std. Galls. at 74c.	829 36
Pyrodine in stock.	479 82
Barrels, on hand 266 at \$4; Drums, 72 at \$10, 1	
at \$4.	1,800 00
Barrels destroyed 37.	

Galls:—	5,309 61
Wood Naphtha 7,175 15 at 74c.	9,608 06
" " short paid on 2,211 39 at 4½c.	105 04
Paid for duty on 3,439 Galls. (Wood Naphtha im- ported)	687 80
Gasoline, 60 Galls. at 20c.; 44 at 22½c.; 40 6 at 24c.;	
308 58 at 26c.; 43 40 at 27½c.; 29 at 29½c.; 28 at	
21c.; 44 9 at 23c.; 138 60 at 28c.; 96 29 at 29c.	192 55
\$211 25, less empty barrels, \$18 70	28,711 00
Barrels, 5,142 at \$4; Drums, 207 at \$8, 649 at \$10,	
1 Dormant W. House Scales, \$114.50; motor oil, 47c	114 97
	91,658 26
Less freight and cartage.	161 75
	9,863 19

To other expenses as follows:—

Salaries (paid from depart. Civil Govt. Vote).	4,100 00
Salaries (paid from Civ. Govt. Contingencies)	1,268 25
Special assistance.	156 45
Freight.	3,407 72
Stationery.	21 10
Printing.	26 34
Supplies, including fuel, repairs, &c.	885 33
Profit.	19,676 41
	134,061 72

Alcohol used in manufacture 212,007 21 Proof Galls.	
Wood Naphtha 35,417 13 Proof Galls.	
22,350 91 Std. Galls.	
Total.	134,061 72

W. HUMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

APPENDIX A.

STATISTICS

APPENDIX A.—SPIRITS.

No. 1.—RETURN of Manufactures for

Divisions.	Licenses.		Materials Taken for Use.				
	No.	Fees.	Grain.				
			Malt.	Indian Corn.	Rye.	Oats.	Wheat.
		\$	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
Belleville, Ont.	1	250	540,642	7,104,040	471,800		
Guelph "	1	250	328,660	4,487,400	686,020	33,240	365,680
Hamilton "	1	250	140,690	2,359,060	214,895	19,950	474,205
Perth "	2	500	321,716				
Prescott "	1	250	275,165	4,755,970	669,459	25,250	152,740
Toronto "	2	500	1,575,857	19,592,060	3,293,406	353,944	
Windsor "	1	250	1,215,574	20,877,600	4,163,760	174,700	
Totals	9	2,250	4,398,304	59,176,130	9,409,340	627,084	992,625
Joliette, Que	1	250	2,011,525	1,971,775	2,124,675		
Montreal "	1	250					
Quebec "	1	250					
St. Hyacinthe, Que.	1	250	128,100	1,845,775	120,800		36,125
Totals	4	1,000	2,139,625	3,817,550	2,245,475		36,125
Vancouver, B.C.	1	250	99,700	54,875	41,675	13,510	1,997,315
Grand Totals	14	3,500	6,637,629	63,948,555	11,696,490	640,594	3,026,065

No. 2.—COMPARATIVE Statement of Manufactures for

1912.							
	No.	Fees.	Malt.	Indian Corn.	Rye.	Oats.	Wheat.
		\$	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
Ontario	9	2,250	3,437,626	47,287,522	7,111,770	490,795	1,535,877
Quebec	4	1,000	2,095,986	4,359,265	2,135,894		101,005
Manitoba	1	250	64,972	391,663	126,107		18,673
British Columbia	1	250	77,920	365,110	100,860	10,640	1,196,285
Totals	15	3,750	5,676,504	52,403,560	9,474,631	501,435	2,851,840
1913.							
Ontario	9	2,250	4,398,304	59,176,130	9,409,340	627,084	992,625
Quebec	4	1,000	2,139,625	3,817,550	2,245,475		36,125
British Columbia	1	250	99,700	54,875	41,675	13,510	1,997,315
Totals	14	3,500	6,637,629	63,048,555	11,696,490	640,594	3,026,065

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

the Fiscal Year ended March 31, 1913.

Total Grain.	Molasses.	Used in Spirits Manufactured.		Proof Spirits Manufactured.	Duty Collected ex-Manu- factory, on Deficiencies and Assessments.		Total Duty Collected ex-Manu- factory, in- cluding License Fees.
		Grain.	Molasses.		Galls.	8 cts.	
Lbs.	Lbs.	Lbs.	Lbs.	Galls.	Galls.	8 cts.	8 cts.
8,116,482		8,103,882		505,292 22			250 00
5,901,000		5,887,000		357,523 29	462 63	879 00	1,129 00
3,208,800		3,186,800		194,617 83	1,161 86	2,297 53	2,157 53
321,716		319,480		17,204 99	16 72	32 10	532 10
5,878,584		5,878,584		348,355 26			250 00
24,725,267	17,152,346	24,653,267	17,152,346	2,349,695 03	869 99	1,635 88	2,135 88
26,431,631		26,266,631		1,572,056 07			250 00
74,583,483	17,152,346	74,296,647	17,152,346	5,335,624 69	2,592 20	4,754 51	7,094 51
6,197,975		6,079,125		396,005 66			250 00
	9,733,150		9,733,150	567,744 17			250 00
2,139,800		2,114,000		174 21			250 00
				127,257 82			250 00
8,238,775	9,733,150	8,193,125	9,733,150	1,091,181 86			1,000 00
2,297,975		2,199,875		121,645 47	5 61	10 66	260 66
85,029,333	26,885,496	84,679,647	26,885,496	6,458,452 02	2,597 81	4,765 17	8,265 17

the Fiscal Years ended March 31, 1912 and 1913.

59,863,590	8,682,660	59,753,626	8,682,660	3,678,031 85	9,317 02	17,793 30	19,953 30
8,692,150		8,820,800		974,619 49			1,000 00
601,415		609,165		33,484 40			250 00
1,750,815		1,764,015		191,260 71			250 00
70,907,970	8,682,660	70,947,606	8,682,660	4,784,396 15	9,317 02	17,793 30	21,453 30
74,583,483	17,152,346	74,296,647	17,152,346	5,335,624 69	2,592 20	4,754 51	7,094 51
8,238,775	9,733,150	8,193,125	9,733,150	1,091,181 86			1,000 00
2,297,975		2,199,875		121,645 47	5 61	10 66	260 66
85,029,333	26,885,496	84,679,647	26,885,496	6,458,452 02	2,597 81	4,765 17	8,265 17

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—Continued—SPIRITS.

No. 3—STATEMENT showing the transactions in the Distilleries in the

Divisions.	In Process, including Deficiencies Brought Forward.	Manufactured, including Surpluses.	Returned to Distillery for Redistillation.	
			Duty Paid.	In Bond.
	Galls.	Galls.	Galls.	Galls.
Belleville, Ont.	10,147-46	595,262-22		6,579-97
Guelph "	21,626-76	357,523-29		17-42
Hamilton "	7,258-25	194,617-83		44,534-02
Perth "	1,245-69	17,204-99		
Prescott "	15,432-17	348,355-26	373-82	205-11
Toronto "	109,061-80	2,340,605-03	82-51	270,343-88
Windsor "	44,616-96	1,572,056-07		315,332-82
Totals	239,389-09	5,335,624-69	456-33	637,003-32
Joliette, Que.	16,594-54	306,005-66		
Montreal "	36,381-59	567,744-17		
Quebec "	113-44	174-21		
St. Hyacinthe "	8,586-37	127,257-82		2,001-85
Totals	61,675-94	1,001,181-86		2,001-85
Vancouver, B.C.	25,294-76	121,645-47		103-71
Grand Totals.	326,359-79	6,458,452-02	456-33	639,108-88

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

Dominion of Canada, during the Fiscal Year ended March 31, 1913.

Received from Other Sources, Duty Paid.	Totals.	Warehoused.	Fiscal Obl. Written off.	Deficiencies on Which Duty was Collected.	In Process, including Deficiencies, Carried forward.	Totals.
Galls.	Galls.	Galls.	Galls.	Galls.	Galls.	Galls.
1,254-28	553,234-03	490,055-65			63,178-38	553,234-03
1,357-96	380,525-43	339,979-11	1,592-16	492-63	39,291-53	380,525-43
925-23	247,335-33	230,273-80	121-75	1,191-86	15,777-83	247,335-33
	18,450-68	17,272-54		16-72	1,161-42	18,450-68
767-60	365,133-96	354,517-04	651-72		9,965-40	365,133-96
2,298-81	2,722,392-03	2,378,101-90	3,713-75	890-99	139,715-38	2,722,392-03
859-29	1,932,865-14	1,845,991-16			86,873-98	1,932,865-14
7,493-17	6,219,936-60	5,855,291-29	6,179-19	2,502-20	355,963-92	6,219,936-60
	322,600-20	318,166-34			4,433-86	322,600-20
89-56	604,215-32	566,585-90	6,265-64		31,363-78	604,215-32
	287-65	174-21	113-44			287-65
973-83	138,819-87	116,812-54	89-73		21,926-60	138,819-87
1,063-39	1,065,923-04	1,002,038-99	6,459-81		57,424-24	1,065,923-04
1,639-09	148,683-63	136,272-09	82-19	5-61	12,323-74	148,683-63
10,166-25	7,434,543-27	6,993,602-37	12,721-19	2,597-81	425,711-90	7,434,543-27

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—Continued—SPIRITS.
 No. 4.—WAREHOUSE RETURN for the Fiscal Year ended March 31, 1913.

DR.	Divisions.	Remaining in Warehouse from Last Year.	Warehoused.	Imported.	Received from other Divisions.		Totals.
					Removed during Year.	In Transit Last Year.	
		Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.
	Belleville, Ont.	1,193,333.13	490,055.65		25,500.39	238.62	1,709,127.79
	Brantford "	4,794.02			33,781.89	222.58	38,798.49
	Guelph "	1,719,150.52	339,079.11		39,579.87		2,097,809.50
	Hamilton "	751,184.51	230,273.89		138,042.88	1,399.27	1,129,900.55
	Kingston "	3,923.16			47,691.85	4,174.59	55,789.54
	London "	4,146.31			46,337.73	308.66	51,112.70
	Ottawa "	29,997.73			184,400.49	1,840.34	216,238.56
	Government Warehouse, Ont.	1,730.19			210,621.40	5,502.75	217,854.34
	Perth, Ont.	79,259.63	17,272.54		37.40		99,093.12
	Peterborough "	496.36			99,894.82	2,756.13	100,347.34
	Port Arthur "	15,458.63			4,975.73		20,434.36
	Prescott "	823,494.69	351,517.04		71,596.32	2,921.31	1,179,479.47
	St. Catharines "	1,254.12			1,440.30	18.44	2,712.86
	Stratford "	2,232.78			7,473.81		8,957.93
	Toronto "	4,890,151.53	2,378,101.90		13,946.84		7,281,199.27
	Windsor "	7,508,834.96	1,845,491.16		569,915.94	3,368.87	9,378,576.95
	Totals	17,929,442.21	5,855,291.29		1,519,290.66	22,909.37	24,426,903.53
	Joliette, Que.	741,965.79	587.93		45,072.88	192.15	1,105,785.09
	Montreal "	1,157,434.15	318,466.34		227,087.07	28,839.80	2,680,001.42
	Quebec "	699,020.02	566,585.90	154.50	929,959.52	684.45	2,296,160.49
	St. Hyacinthe "	311,733.38	174.21		27,076.05	376.04	455,998.01
	Sherbrooke "	4,188.43	116,812.54		108,747.10	326.40	115,261.93
	Three Rivers "	4,594.43			36,745.50	2,526.45	43,826.38
	Totals	2,918,846.20	1,062,136.92	54.50	1,374,738.12	32,945.29	5,328,711.03
	St. John, N.B.	19,075.02			116,894.64	1,640.75	137,520.41

SESSIONAL PAPER No. 12

Halifax, N.S.	5,980 50	21,457 03	1,809 82	29,256 35
Pictou "	229 00	3,513 02	306 19	4,048 21
Totals	6,218 50	24,970 05	2,116 01	33,304 56
Charlottetown, P.E.I.		68 24		68 24
Winnipeg, Man.	91,676 53	607,011 01	37,811 40	736,498 94
Moosejaw, Sask.	29,050 32		8,456 49	165,359 32
Calgary, Alta.	55,057 64	127,852 51	15,749 71	298,106 77
Vancouver, B.C.	333,578 74	158,530 89	11,794 83	660,176 55
Victoria "	19,299 90	89,989 41	2,981 65	112,330 92
Totals	372,878 64	248,529 30	14,776 48	772,507 47
Dawson, Y.T.	2,071 11	704 92		2,776 03
Sundries	8,612 51			8,612 54
Grand Totals	29,532,928 71	4,247,229 87	136,405 50	31,310,368 84

* Surplus in bottling room. † Seizure.

APPENDIX A—Continued—SPIRITS.

No 4.—WAREHOUSE RETURN for the Fiscal Year ended March 31, 1913.

Cr.

Divisions.	Entered for Consumption.		Duty. \$ cts.	Removed to Other Divisions.		Taken for Redistillation.	Free.		Exported.	Used in Bonded Factories.	Remaining in Warehouse.	Totals.														
	Quantity.	Gallons.		Wardens in Divisions to which Removed.	Gallons.		In Transit.	Gallons.					Legal Allowance.	Other.												
Bellefleur, Ont.	57,830	80	109,877	61	325,632	88	17,737	56	6,570	07	1,936	14	1,520	42	8,275	09	1,296	143	42	1,709,127	79					
Branford "	24,816	80	47,139	84	110,719	31	11,217	69	17	42	46,583	76	1,229	85	7,675	29	6,306	40	38,798	39	38,798	49				
Guelph "	186,142	71	353,773	71	83,709	61	10,519	60	44,531	02	20,880	12	1,143	87	18,665	30	7,758	841	68	1,120,800	55	2,087,800	50			
Hamilton "	38,001	91	72,296	88	86,416	10	381	60	3	04	5,728	50	5,624	21	11,916	29	5,871	34	55,789	54	51,112	70	1,120,800	55		
Kingston "	45,480	16	86,416	10	381	60	3	04	5,728	50	28,489	57	5,847	13	11,916	29	5,871	34	55,789	54	51,112	70	1,120,800	55		
London "	181,635	85	345,522	11	3,957	72	910	45	37	40	85,900	84	199,093	12	212,007	21	5,847	13	217,851	34	217,851	34	2,426,963	53		
Ottawa "	108,322	44	205,782	51	3,957	72	910	45	37	40	85,900	84	199,093	12	212,007	21	5,847	13	217,851	34	217,851	34	2,426,963	53		
" Govt. W.H. Ont	5,037	99	9,577	88	7,320	42	205	11	1,699	39	1,699	39	1,266	90	1,378	56	14,870	67	89,976	26	14,870	67	89,976	26		
" Dept. Lab'y. "	75,105	59	142,765	22	245,669	80	7,320	42	205	11	7,744	78	1,699	39	1,378	56	851,361	84	1,174,470	47	851,361	84	1,174,470	47		
Perth, Ont.	64,739	23	123,121	69	16,978	29	60,240	19	270,343	88	55,607	82	3,730	98	6,098	32	1,807	95	287,873	10	21,567	32	173,165	49	8,041,538	24
Peterborough "	8,462	00	16,978	29	1,585	473	22	708,707	75	315,332	82	174,059	35	1,807	95	21,567	32	7,574,598	03	9,378,576	93	8,041,538	24	9,378,576	93	
Port Arthur "	14,801	07	28,130	70	1,585	473	22	708,707	75	315,332	82	174,059	35	1,807	95	21,567	32	7,574,598	03	9,378,576	93	8,041,538	24	9,378,576	93	
Prescott "	675,780	88	1,269,803	58	1,585	473	22	708,707	75	315,332	82	174,059	35	1,807	95	21,567	32	7,574,598	03	9,378,576	93	8,041,538	24	9,378,576	93	
St. Catharines "	268,976	65	503,114	18	3,063	870	32	132,629	42	637,003	32	329,257	69	11,427	18	221,007	21	17,526,797	60	24,426,963	53	17,526,797	60	24,426,963	53	
Stratford "	1,435,386	18	3,655,119	11	3,063	870	32	132,629	42	637,003	32	329,257	69	11,427	18	221,007	21	17,526,797	60	24,426,963	53	17,526,797	60	24,426,963	53	
Toronto "	41,741	31	85,232	86	314,602	94	5,727	45	3,052	93	3,052	93	176	07	49,185	46	737	660	46	1,105,785	09	1,105,785	09			
Windsor "	1,81,992	31	2,232,638	16	350,263	62	4,209	54	3,013	79	3,013	79	3,541	51	14,646	89	1,091,126	82	2,680,001	42	2,680,001	42	2,680,001	42		
Joliette, Que.	239,773	67	433,366	74	303,101	34	8,776	00	7,653	33	7,653	33	3,541	51	14,646	89	352,345	46	929,838	20	929,838	20				
Montreal "	63,698	97	123,811	48	144,215	94	1,375	05	2,001	85	3,503	19	814	86	7,962	41	231,028	43	455,998	61	455,998	61				
Quebec "	65,018	06	123,572	48	236	77	76,872	38	40,420	80	40,420	80	7,994	24	40,012	86	7,994	24	113,261	93	113,261	93				
St. Hyacinthe "	40,420	80	76,872	38	236	77	76,872	38	40,420	80	40,420	80	7,994	24	40,012	86	7,994	24	113,261	93	113,261	93				
Sherbrooke "	40,420	80	76,872	38	236	77	76,872	38	40,420	80	40,420	80	7,994	24	40,012	86	7,994	24	113,261	93	113,261	93				
Three Rivers "	40,420	80	76,872	38	236	77	76,872	38	40,420	80	40,420	80	7,994	24	40,012	86	7,994	24	113,261	93	113,261	93				
Totals	1,637,915	15	3,098,384	10	1,112,429	61	20,088	04	2,001	85	17,223	24	4,532	44	111,747	62	2,423,560	99	5,328,711	03	5,328,711	03				

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St. John, N.B.	98,710-12	178,173-57	63-50	22-45				17,754-83	25,969-51	197,590-41
Halifax, N.S.	25,514-33	48,514-80	68-24				119-42		3,554-36	29,256-35
Pictou "	3,427-68	6,513-27							620-53	4,048-21
Totals	28,942-01	55,028-07	68-24				119-42		4,174-89	33,804-56
Charlottetown, P.E.I.	68-24	129-65								68-24
Winnipeg, Man.	582,364-28	1,106,178-09	30,118-73	1,070-03			1-38	57,327-33	65,617-19	736,498-94
Moosejaw, Sask.	133,354-25	253,579-28							32,005-07	165,359-32
Calgary, Alta.	246,855-33	493,063-08	1,654-91						49,320-45	298,106-77
Vancouver, B.C.	248,642-11	472,440-45	35,606-47	298-29	103-71	4,988-86	216-14	7,613-53	361,124-86	600,176-35
Victoria "	91,803-18	174,426-43	3,427-09	217-89			1,242-39		15,640-37	112,330-92
Totals	340,445-29	646,866-88	39,033-56	516-18	103-71	4,988-86	1,458-53	7,613-53	376,765-23	772,507-47
Dawson, Y.T.	1,765-85	3,355-12							1,010-18	2,776-03
Sundries										8,612-54
Grand Totals	4,999,936-70	9,465,876-95	4,247,229-87	154,326-12	639,108-88	351,479-79	333,801-75	422,007-21	440,826-59	20,513,833-65
										31,910,368-84

‡ Used in the manufacture of Methylated Spirits at the Government Warehouse, Ottawa.

ISLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—Continued—SPIRITS.

DR. No. 5.—COMPARATIVE STATEMENT OF Warehouse Returns for the Fiscal Years ended March 31, 1912 and 1913.

Provinces.	Remaining in Warehouse from last Year.	Warehouse.	Imported.	Received from other Divisions.		Totals.
				Removed during Year.	In Transit last Year.	
	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.
1912.						
Ontario	18,021,075.05	{ *285.09 4,289,176.50 }	.....	{ +143.82 1,356,425.84 }	29,433.86	23,696,540.16
Quebec	2,892,299.08	{ 987,971.92 +1,000.00 *283.07 }	27,597.40	1,350,402.46	25,300.23	5,284,854.16
New Brunswick	25,314.83	.....	.....	103,742.63	1,776.06	130,833.52
Nova Scotia	6,171.88	.....	.....	26,613.73	2,222.60	35,008.21
Manitoba	70,780.68	33,751.76	.....	583,786.87	13,401.36	701,720.67
Saskatchewan	29,876.59	.....	.....	105,513.31	700.97	127,090.87
Alberta	40,107.43	.....	.....	298,492.23	11,470.34	260,070.00
British Columbia	378,598.87	101,498.20	84.88	247,988.36	12,075.42	740,155.73
Yukon Territory	797.65	.....	.....	4,196.00	.....	4,993.65
Sundries	8,612.54	.....	.....	.....	.....	8,612.54
Totals	21,464,544.60	{ 5,412,398.38 +1,000.00 568.16 }	27,682.28	{ +143.82 3,987,161.43 }	96,380.84	30,989,879.51

*Surplus in warehouse. †Rewarehoused. ‡Warehoused twice.

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	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.
1913.							
Ontario.....	17,029,442.21	5,855,291.29	1,539,260.06	22,909.37	24,426,963.53		
Quebec.....	2,918,846.20	1,002,038.99	1,374,738.12	32,945.29	5,328,711.03		
New Brunswick.....	19,075.02		116,804.61	1,640.75	137,520.41		
Nova Scotia.....	6,218.50		24,970.05	2,116.01	33,304.56		
Prince Edward Island.....						68.24	
Manitoba.....	91,676.53		667,011.01	37,811.40	736,498.94		
Saskatchewan.....	29,050.32		127,882.51	8,456.49	165,359.32		
Alberta.....	55,057.04		227,299.42	15,749.71	298,106.77		
British Columbia.....	372,878.64	136,272.09	248,520.30	14,776.48	772,507.47		
Yukon Territory.....	2,071.11		704.92		2,776.03		
Sundries.....	8,612.54				8,612.54		
Totals.....	20,582,928.71	6,963,602.37	4,247,229.87	136,405.50	31,910,368.84		
		451.59	539.96				

*Surplus in bottling room. †Seizure.

APPENDIX A—Continued—SPIRITS.

No. 5.—COMPARATIVE STATEMENT OF Warehouse Returns for the Fiscal Years ended March 31, 1912 and 1913—Concluded. Cr.

Provinces.	Entered for Consumption.		Removed to Other Divisions.		Taken for Redistillation.	Free.		Exported.	Used in Bonded Factories.	Remaining in Warehouse.	Totals.
	Quantity.	Duty.	Warehoused in Divisions to which Removed.	In Transit.		Legal Allowance.	Other.				
1912.	Gallons.	\$ cts.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.
Ontario	1,822,449.78	3,444,133.09	3,167,125.62	104,358.92	602,517.08	289,076.76	7,946.09	297,275.33	*168,304.23 208,044.14	17,029,442.21	23,696,540.16
Quebec	1,473,149.11	2,735,028.06	741,534.78	30,496.85	2,300.80	10,737.35	1,784.79	211.92	734,679.37 71,052.99	2,918,846.20	5,284,854.16
New Brunswick	95,310.34	181,196.36		22.85					16,425.31	19,075.92	130,833.52
Nova Scotia	28,569.92	54,383.08	36.29					153.50		6,218.50	35,008.21
Manitoba	526,490.96	1,090,080.00	35,631.00	1,526.88				6.90	46,418.40	91,676.53	791,720.67
Saskatchewan	98,633.60	186,406.76					6.95			29,050.32	127,090.87
Alberta	263,347.61	386,404.88	1,654.75							55,057.64	290,070.00
British Columbia	312,108.88	593,026.85	41,168.99		19.46	5,507.03	1,577.92	1,121.67	5,773.14	372,878.64	740,155.73
Yukon Territory	2,922.54	5,552.84								2,071.11	4,993.65
Sundries										8,612.54	8,612.54
Totals	4,562,382.74	8,646,212.52	3,987,161.43	136,405.50	604,837.34	305,381.14	11,315.75	298,769.32	*168,304.23 134,679.37 347,713.98	20,532,928.71	30,989,879.51

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1913.	Gallons.	Duty.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.
Ontario	1,935,386 18	3,655,119 11	3,063,870 32	132,629 42	637,063 32	329,267 69	11,427 18	332,131 33	(212,007 21) (246,383 28)	17,526,737 60	24,426,963 53
Quebec	1,637,045 15	3,098,384 10	1,112,420 61	20,088 04	2,601 85	17,223 24	4,532 44	91 09	111,747 62	2,423,560 99	5,328,711 03
New Brunswick	93,710 12	178,173 57	63 50	22 45					17,754 83	25,969 51	137,520 41
Nova Scotia	28,942 01	55,028 07	68 24					119 42		4,174 89	33,304 56
Prince Edward Island	68 24	129 65									68 24
Manitoba	582,364 28	1,106,178 09	30,118 73	1,070 63				1 38	57,327 33	65,617 19	736,498 94
Saskatchewan	133,354 25	253,579 25									32,005 07
Alberta	246,855 33	469,063 08	1,654 91			276 08					49,320 45
British Columbia	340,445 29	646,866 88	39,033 56	516 18	103 71	4,988 86	1,582 58	1,458 53	7,613 53	376,765 23	772,507 47
Yukon Territory	1,767 85	3,355 12									1,010 18
Sundries											8,612 54
Totals	1,999,936 70	9,465,876 95	4,247,229 87	154,325 12	639,108 88	351,479 79	17,818 28	333,801 75	(212,007 21) (440,826 59)	20,513,833 65	31,910,368 84

*Used in the manufacture of Methylated Spirits at the Government Warehouse, Ottawa.

† Crude Fatmide.

	1912.	1913.
Total duty collected ex manufactory and ex-warehouse	\$8,663,915 82	\$9,470,642 12
License fees	3,750 00	3,500 00
	\$8,667,665 82	\$9,474,142 12

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HAINSWORTH,
Deputy Minister.

APPENDIX A.—Continued.—MALT.

NO 6.—RETURN of Manufactures for the Fiscal Year ended March 31, 1913.

Divisions.	Licenses.		Grain Steeped.	Grain used in Malt Manufactured.	Malt.			Total Duty Collected ex-manufactory, including License Fees.
	No.	Fees.			Manufactured.	Paid Duty.	Warehoused.	
		\$	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	\$ cts.
Belleville, Ont..	1	50	149,812	149,812	115,911	115,011	115,011	50 00
Brantford " "	1	50	642,598	643,551	509,476	599,476	599,476	50 00
Guelph " "	5	550	7,298,607	7,155,769	5,674,552	5,674,552	5,674,552	550 00
Hamilton " "	2	350	5,147,310	5,020,870	3,939,870	3,939,870	3,939,870	350 00
Kingston " "	1	50	308,814	313,455	239,212	239,212	239,212	50 00
London " "	2	400	4,998,350	5,008,150	3,901,590	3,901,590	3,901,590	490 00
Owen Sound " "	1	200	5,628,500	5,525,000	4,418,458	4,418,458	4,418,458	200 00
Perth " "	2	100	341,370	336,595	263,335	1,277	262,058	119 16
Peterborough, O.	1	50	453,840	453,840	352,764	352,764	352,764	50 00
Prescott " "	2	150	352,366	348,787	269,836	269,836	269,836	150 00
St. Catharines " "	1	50	.....	18,150	14,650	14,650	14,650	50 00
Stratford " "	1	200	6,128,295	6,194,245	5,002,420	5,002,420	5,002,420	200 00
Toronto " "	7	950	11,026,646	11,025,279	8,534,854	8,534,854	8,534,854	950 00
Windsor " "	1	200	5,999,430	5,771,239	4,566,770	4,566,770	4,566,770	200 00
Totals.....	28	3,350	48,475,968	47,964,733	37,802,798	1,277	37,801,521	3,369 16
Montreal, Que..	4	800	48,660,945	48,628,345	38,202,980	3,156	38,199,824	847 34
Quebec " "	1	150	1,046,415	1,047,769	832,151	.....	832,151	150 00
Totals ...	5	950	49,707,360	49,676,114	39,035,131	3,156	39,031,975	997 34
Winnipeg, Man..	3	500	42,642,697	42,996,897	34,506,510	.....	34,506,510	500 00
Calgary, Alta...	3	500	9,057,435	8,364,225	6,723,710	.....	6,723,710	500 00
Victoria, B.C...	1	100	708,783	760,895	605,012	.....	605,012	100 00
Grand Totals.	40	5,400	150,592,243	149,762,864	118,673,161	4,433	118,668,728	5,466 50

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

APPENDIX A.—Continued.—MALT.

No. 7.—COMPARATIVE STATEMENT of Manufactures for the Fiscal Years ended March 31, 1912 and 1913.

Provinces.	Licenses.		Grain Steeped.	Grain used in Malt Manufactured.	Malt.			Total Duty Collected ex-manufactory, including License Fees.
	No.	Fees.			Manufactured.	Paid Duty	Warehoused.	
1912.		\$	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	\$ cts.
Ontario.....	31	3,900	54,602,159	54,549,890	43,070,327	.....	43,070,327	3,900 00
Quebec.....	5	950	52,149,304	52,058,372	41,269,501	347,576	40,861,925	6,163 60
Manitoba.....	3	500	34,949,690	34,401,050	27,658,585	.....	27,658,585	500 00
Alberta.....	2	300	3,620,440	3,626,155	2,941,746	.....	2,941,746	300 00
British Columbia	1	100	1,140,212	1,134,906	913,167	.....	913,167	100 00
Totals	42	5,750	146,443,805	145,770,373	115,793,326	347,576	115,445,750	10,963 60
1913.								
Ontario.....	28	3,350	48,475,968	47,964,733	37,802,798	4,277	37,801,521	3,369 46
Quebec.....	5	950	49,797,360	49,673,114	39,035,431	3,156	39,031,975	997 34
Manitoba.....	3	500	42,642,697	42,996,897	34,506,510	.....	34,506,510	500 00
Alberta.....	3	500	9,057,435	8,364,225	6,723,710	.....	6,723,710	500 00
British Columbia	1	100	708,783	760,895	695,012	.....	695,012	100 00
Totals...	40	5,400	150,592,243	149,762,864	118,673,461	4,433	118,668,728	5,466 50

W. HIMSWORTH,

Deputy Minister.

INLAND REVENUE DEPARTMENT,

OTTAWA, June 1, 1913.

APPENDIX A.—Continued—MALT.

DR.

No. 8—WAREHOUSE RETURN for

Remaining in Warehouse from last year.	Ware- housed.	In- creases.	Received from other Divisions.		Imported.	Totals.	Divisions.	
			Removed during year.	In Transit last year.				
Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.		
127,358	115,011	2,201	532,000	40,000	150	816,720	Belleville,	Ont.
112,808	509,476	4,928	126,190		2,000	755,402	Brantford	"
2,689,284	5,674,552	52,942	1,960,600		836,296	11,213,674	Guelph	"
1,464,146	3,930,870	97,558	1,320,000		189,174	6,950,748	Hamilton	"
167,372	239,212	5,780	160,000	40,000		612,364	Kingston	"
2,291,773	3,901,590	83,369	454,000		1,651	6,732,382	London	"
85,100			1,202,208	50,000		1,337,308	Ottawa	"
1,941,264	4,418,458	37,440	442,220	7,200		6,846,582	Owen Sound	"
35,681	262,658	826	2,684,800	130,000	2,040	2,515,405	Perth	"
92,845	352,764	8,350	424,800			878,789	Peterborough	"
77,022			1,600,000		5,876	1,682,898	Port Arthur	"
50,390	269,836	3,696	2,736,000	40,000		3,099,922	Prescott	"
201,620	14,650	6,870	1,484,276			1,707,416	St. Catharines	"
2,724,352	5,002,420	267,082	148,800			8,142,654	Stratford	"
7,143,740	8,534,854	107,829	12,259,850	228,000	143,062	28,417,335	Toronto	"
2,359,576	1,566,750	49,760	410,000		126,800	7,512,906	Windsor	"
21,564,331	37,801,521	668,661	27,345,744	535,200	1,307,048	89,222,505	Totals.....	
60,580			1,965,000	40,000		2,065,980	Joliette,	Que. ...
8,276,604	38,199,824	222,023	1,298,270		455,780	48,452,501	Montreal	"
	832,151		1,440,000		46,080	2,318,231	Quebec	"
			142,000			142,000	St. Hyacinthe	"
52,900			800,000	50,000		902,900	Sherbrooke	"
			25,200			25,200	Three Rivers	"
8,390,484	39,031,975	222,023	5,670,470	90,000	501,860	53,906,812	Totals.....	
			1,360,000			1,360,000	St. John, N.B.	.....
24,700			2,974,000	40,000	45,100	3,083,800	Halifax, N.S.	.....
4,461,968	34,506,510	72,348	1,080,000		*1,440,407	41,561,233	Winnipeg, Man.	.....
3,160			2,560,000	120,000	41,704	2,724,804	Moose Jaw, Sask.	.....
596,537	6,723,710	20,146	4,000,000	40,000	383,980	11,764,373	Calgary, Alta.	.....
160,974			6,833,281	450,000	948,493	8,392,748	Vancouver, B.C.	.....
50,833	605,012	582	2,990,000	80,000	297,870	4,024,297	Victoria	"
211,867	605,012	582	9,823,281	530,000	1,246,363	12,417,045	Totals.....	
26,773		475			34,560	61,808	Dawson, Y.T.	.....
35,279,700	118,668,728	984,235	54,813,495	1,355,200	*5,001,022	216,102,380	Grand Totals....	

* 32,000 lbs. Re-imported.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

the Fiscal Year ended March 31, 1913.

Cr.

Entered for Consumption.		Removed to other Divisions.		Exported.	Free.	Written off.	Remain- ing in Ware- house.	Totals.
Quantity.	Duty.	Warehoused in Divisions to which Removed.	In Transit.					
Lbs.	\$ cts.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
715,299	10,728 13						101,511	816,720
636,950	9,574 25						118,452	755,402
6,528,308	97,924 62	1,446,634	89,934				3,148,798	11,213,674
4,736,148	71,042 24	632,900	54,000				1,527,700	6,956,748
427,552	6,413 28						184,812	612,364
4,783,413	71,751 79						1,948,969	6,732,382
1,290,540	19,358 10						46,768	1,337,308
550,158	8,252 37	4,433,934	80,000	40,000			1,742,490	6,846,582
2,132,040	31,980 60				321,716	6,252	55,307	2,515,405
728,966	10,934 49						149,823	878,789
1,661,684	24,936 02						21,214	1,682,898
3,050,677	45,760 17			3,600			45,645	3,099,922
1,633,686	24,505 29						73,730	1,707,416
668,810	10,032 15	6,118,250					1,355,599	8,142,654
22,808,487	342,397 32						5,608,848	28,417,335
3,507,875	52,618 13	247,000			572,184		3,185,847	7,512,906
55,860,503	838,208 95	12,878,718	223,934	43,000	893,900	6,252	19,315,598	80,222,505
25,734,482	386,031 24	16,813,000	350,000	108,000	2,011,525		54,475	2,065,980
2,318,231	34,773 41						5,447,019	48,452,501
142,000	2,130 00							2,318,231
902,900	13,543 50							142,000
25,200	378 00							902,900
29,122,813	436,856 15	16,813,000	350,000	108,000	2,011,525		5,501,474	53,906,812
1,320,000	19,800 00	40,000						1,360,000
2,974,104	44,611 56	48,496		7,200			54,000	3,083,800
11,619,635	174,294 54	24,380,000	772,000	40,000			4,749,598	41,561,233
2,689,804	40,347 06						35,000	2,724,804
8,543,920	128,158 88	260,000	280,000				2,680,453	11,764,373
8,108,625	121,629 35						284,123	8,392,748
3,619,896	54,298 46	393,281					11,120	4,024,297
11,728,521	175,927 81	393,281					295,243	12,417,045
56,874	853 12						4,934	61,808
123,916,174	1,859,058 07	54,813,495	1,625,934	198,800	2,905,425	6,252	32,636,300	216,102,380

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—Continued.—MALT.

DR. No. 9.—COMPARATIVE STATEMENT of Warehouse Returns for the

Remaining in Warehouse from last year.	Ware- housed.	In- creases.	Received from other Divisions.		Imported.	Totals.	Provinces.
			Removed during year.	In Transit last year.			
Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	1912.
20,001,397	43,070,327	475,285	27,089,040	236,000	31,502	90,903,521	Ontario.....
9,284,732	40,861,925	125,959	4,756,233	199,000	53,596	55,281,445	Quebec.....
.....	.....	.....	1,280,000	40,000	3,024	1,323,024	New Brunswick.....
111,438	.....	.....	2,746,000	40,000	20,080	2,917,518	Nova Scotia.....
4,329,677	27,658,585	173,409	1,480,000	.....	7,390	33,649,061	Manitoba.....
.....	.....	.....	1,560,000	80,000	.....	1,640,000	Saskatchewan.....
1,323,205	2,941,746	33,023	2,120,000	100,000	60,920	6,578,894	Alberta.....
255,580	913,167	299	9,594,280	334,311	383,750	11,481,387	British Columbia.....
54,020	.....	2,307	.....	.....	53,120	109,537	Yukon Territory.....
35,360,019	115,445,750	810,372	50,625,553	1,029,311	613,382	203,884,387	Totals.....
							1913.
21,564,331	37,801,521	668,661	27,345,744	535,200	1,307,048	89,222,505	Ontario.....
8,390,484	39,031,975	222,023	5,670,470	90,000	501,860	53,906,812	Quebec.....
.....	.....	.....	1,360,000	.....	.....	1,360,000	New Brunswick.....
24,700	.....	.....	2,974,000	40,000	45,100	3,083,800	Nova Scotia.....
4,461,968	34,506,510	72,348	1,080,000	.....	*1,440,407	41,561,233	Manitoba.....
3,100	.....	.....	2,560,000	120,000	41,704	2,724,804	Saskatchewan.....
596,537	6,723,710	20,146	4,000,000	40,000	383,980	11,764,373	Alberta.....
211,807	605,912	582	9,823,281	530,000	1,246,363	12,417,045	British Columbia.....
26,773	.....	475	.....	.....	34,560	61,808	Yukon Territory.....
35,279,700	118,668,728	984,235	54,813,495	1,355,200	*5,001,022	216,102,380	Totals.....

* 32,000 lbs re-imported.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

Fiscal Years ended March 31, 1912 and 1913.

CR.

Entered for Consumption.		Removed to other Divisions.		Exported.	Free.	Written Off.	Remain- ing in Ware- house.	Totals.
Quantity.	Duty.	Warehoused in Divisions to which Removed.	In Transit.					
Lbs.	§ cts.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
53,760,863	806,736 32	11,629,640	297,200	49,000	697,339	4,148	21,564,331	90,903,521
27,308,961	411,129 85	17,225,400	228,000	180,000	1,849,500		8,390,484	55,281,445
1,323,024	13,875 60							1,323,024
2,882,048	43,230 27			10,800			24,700	2,917,548
9,777,660	146,664 91	18,361,233	920,000	64,000	58,000	3,200	4,461,968	33,649,061
1,636,900	24,553 50						3,100	1,640,000
5,982,357	89,735 45						396,537	6,378,894
10,828,300	162,424 68	406,280				35,000	241,807	11,481,387
82,764	1,241 44						26,773	109,537
113,681,947	1,765,583 02	50,625,553	1,355,200	294,800	2,604,839	42,348	35,279,700	203,884,387
55,860,503	838,208 95	12,878,718	223,934	43,000	863,900	6,252	19,315,598	89,222,505
29,122,813	436,856 15	16,813,000	350,000	108,000	2,011,525		5,501,474	53,906,812
1,320,000	19,800 00	40,000						1,360,000
2,974,104	44,611 56	48,496		7,200			54,000	3,083,800
11,619,635	174,294 54	24,380,000	772,000	40,000			4,749,598	41,561,233
2,689,804	40,347 06						35,000	2,724,804
8,543,920	128,158 88	260,000	280,000				2,680,453	11,764,373
11,728,521	175,927 81	393,281					295,243	12,417,045
56,874	853 12						4,934	61,808
123,916,174	1,859,058 97	54,813,465	1,625,934	198,800	2,965,425	6,252	32,636,300	216,162,380
				1912.		1913.		
Total duty collected ex-manufactory and ex warehouse				\$1,719,796 62		\$1,859,124 57		
License fees				5,750 00		5,400 00		
				<u>\$1,716,546 62</u>		<u>\$1,864,524 57</u>		

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—Continued.—MALT LIQUOR.

NO. 10.—RETURN of Manufactures for the Fiscal Year ended March 31, 1913.

Divisions.		Licenses.		Malt used.	Other commodities used.	Malt Liquor manufactured.	Malt Liquor Exported.	Total Duty Collected, ex-manu- factory including License Fees.
		No.	Fees.					
			\$ cts.	Lbs.	Lbs.	Galls.	Galls.	\$ cts.
Belleville, Ont.	1	50 00	169,630			80,979		50 00
Brantford "	2	100 00	633,940			263,645		100 00
Guelph "	6	300 00	6,200,292			3,179,960		300 00
Hamilton "	2	100 00	4,583,791			1,919,750		100 00
Kingston "	2	100 00	429,854			153,100		100 00
London "	4	200 00	4,630,523			1,878,812	5,265	200 00
Ottawa "	2	100 00	1,775,100			886,350		100 00
Owen Sound "	5	250 00	505,114			219,270		250 00
Perth "	2	100 00	2,163,425			1,085,922		100 00
Peterborough "	2	100 00	724,000			268,068		100 00
Port Arthur "	3	150 00	1,634,779			743,650		150 00
Prescott "	3	150 00	2,786,148			1,246,886		150 00
St. Catharines "	2	100 00	1,628,440			712,750		100 00
Stratford "	3	150 00	469,104			231,900		150 00
Toronto "	13	650 00	20,900,111			9,128,643		650 00
Windsor "	2	100 00	2,214,460			1,113,096		100 00
Totals.....	54	2,700 00	51,448,711			23,112,781	5,265	2,700 00
Montreal, Que.	8	400 00	23,095,830	99,640		10,853,636		10,502 30
Quebec "	3	150 00	4,128,136			1,717,725		150 00
Sherbrooke "	1	50 00	679,500			521,285		50 00
Three Rivers "	1	50 00	25,200			11,925		50 00
Totals.....	13	650 00	27,928,666	99,640		13,104,571		10,752 30
St. John, N.E.	2	100 00	1,313,070			521,348		100 00
Halifax, N.S.	3	150 00	3,022,181			979,735		150 00
Winnipeg, Man.	6	300 00	10,250,888	2,200		4,403,240		556 10
Moose Jaw, Sask.	4	200 00	2,667,381	89,650		1,316,552		11,939 00
Calgary, Alta.	7	325 00	8,122,642	285,672		3,787,805		42,073 30
Vancouver, B.C.	20	1,000 00	7,954,498	659,400		3,581,937		74,464 80
Victoria "	7	350 00	3,729,939	53,768		1,484,777		6,651 80
Totals.....	27	1,350 00	11,684,437	715,168		5,066,714		81,116 60
Dawson, Y.T.	1	50 00	56,874			21,654		50 00
Grand Totals.....	117	5,825 00	116,494,850	1,192,330		52,314,400	5,265	149,437 30

W. HIMSWORTH,
Deputy Minister.

SESSIONAL PAPER No. 12

APPENDIX A.—Continued—MALT LIQUOR.

No. 11.—COMPARATIVE Statement of Manufactures for the Fiscal Years ended March 31, 1912 and 1913.

Provinces.	Licenses.		Malt used.	Other Commodities used.	Malt Liquor manufactured.	Malt Liquor exported.	Total Duty collected, ex-manufactory, including License Fees.
	No.	Fees.					
1912.		\$ cts.	Lbs.	Lbs.	Galls.	Galls.	\$ cts.
Ontario	53	2,650 00	50,147,939	66,320	22,900,301	1,750	2,650 00
Quebec	12	550 00	26,165,046	50,320	11,119,088		5,969 00
New Brunswick	2	100 00	1,286,570		505,265		100 00
Nova Scotia	3	150 00	2,847,468		933,917	310	150 00
Manitoba	6	300 00	8,980,489	2,350	4,108,884		484 50
Saskatchewan	4	200 00	1,671,856	49,650	849,193		6,200 00
Alberta	5	250 00	5,887,050	114,000	2,677,481		20,780 60
British Columbia	28	1,400 00	10,623,672	508,050	4,391,344		50,416 04
Yukon Territory	1		82,764		33,234		
Totals	114	5,600 00	107,692,854	740,970	47,518,647	2,060	86,756 14
1913.							
Ontario	54	2,700	51,448,711		23,112,781	5,265	2,700 00
Quebec	13	650	27,928,666	99,640	13,104,571		10,752 30
New Brunswick	2	100	1,313,070		521,348		100 00
Nova Scotia	3	150	3,022,181		979,735		150 00
Manitoba	6	300	10,250,888	2,200	4,463,240		556 10
Saskatchewan	4	200	2,667,381	89,650	1,316,552		11,939 00
Alberta	7	325	8,122,642	285,672	3,787,805		42,073 30
British Columbia	27	1,350	11,684,437	715,168	5,066,714		81,116 60
Yukon Territory	1	50	56,874		21,674		50 00
Totals	117	5,825	116,494,850	1,192,330	52,314,400	5,265	149,437 30
						1912.	1913.
Exported						Galls.	Galls.
						2,060	5,265

*License fee paid in 1910-11.

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

APPENDIX A.—Continued—TOBACCO.

No. 12.—RETURN of Manufactures for

Divisions.	Licenses.		Total Weight of Raw Leaf Tobacco and other Materials actually used.	Tobacco.		
	Number.	Fees.		At 5c. per lb.		
				Manufactured.	Paid Duty.	Warehoused.
		§ cts.	Lbs.	Lbs.	Lbs.	Lbs.
Hamilton, Ont.	1	50 00	1,275,650½	1,233,598	591,065½	642,532½
Toronto, "	4	175 00	180,615	193,314	47,069	116,245
Windsor, "	4	175 00	152,975	157,378	167,378	.....
Totals	9	400 00	1,609,240½	1,584,290	795,512½	788,777½
Joliette, Que.	9	400 00	120,013	124,489	124,489	.....
Montreal "	35	1,675 00	14,660,250	12,733,020½	4,995,714	7,737,276½
Quebec "	5	250 00	2,975,946	3,004,445½	2,982,316	22,129½
St. Hyacinthe "	3	150 00	5,924	6,085	6,085	.....
Sherbrooke "	1	50 00	4,176,977	4,348,448½	4,335,030½	12,518
Three Rivers "	3	150 00	69,008	69,149	69,149	.....
Totals	56	2,675 00	22,008,118	20,285,637½	12,513,713½	7,771,924
Pictou, N.S.	1	50 00	10,571	11,523	11,523	.....
Charlottetown, P.E.I.	4	175 00	202,060	221,418½	221,418½	.....
Winnipeg, Man.	1	50 00	17,152	.....	.....	.....
Vancouver, B.C.	1	50 00	2,846	3,000	3,000	.....
Grand Totals	72	3,400 00	23,849,987½	22,105,869	13,545,167½	8,560,701½

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

the Fiscal Year ended March 31, 1913.

Cigarettes. At 2.40 per M.		Cigarettes. At \$7.00 per M.				Snuff. At 5c. per lb.		Total Duty Collected by manufac- tury, including License Fees.
Manufac- tured.	Paid Duty.	Ware- housed.	Manu- factured.	Paid Duty	Ware- housed.	Manu- factured.	Paid Duty	
No.	No.	No.	No.	No.	No.	Lbs.	Lbs.	\$ cts.
39,187,200	39,187,200							123,652 56
197,300	197,300		1,100	1,100				3,009 67
								8,043 90
39,384,500	39,384,500		1,100	1,100				134,706 13
930,114,807	902,648,157	27,466,650	2,407,100	2,377,100	30,000	610,238	610,238	6,624 45
1,811,100	947,150	863,950				49,754	49,754	2,464,962 39
								154,126 76
								454 25
								216,816 50
								3,607 45
931,925,907	903,595,307	28,330,600	2,407,100	2,377,100	30,000	659,992	659,992	2,816,628 80
								626 15
								11,246 00
5,487,800	2,068,250	3,419,550						5,013 89
								200 00
976,798,207	945,048,057	31,750,150	2,408,200	2,378,200	30,000	659,992	659,992	2,998,420 88

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—Continued.—TOBACCO.

No. 13.—COMPARATIVE Statement of Manufactures for

Provinces.	Licenses.		Total Weight of Raw Leaf Tobacco and other Materials actually used.	Tobacco At 5c. per lb.		
	Number.	Fees.		Manu- factured.	Paid Duty.	Ware- housed.
1912.		\$ cts.	Lbs.	Lbs.	Lbs.	Lbs.
Ontario.....	7	350 00	1,791,711	1,720,900	918,394½	802,505½
Quebec.....	52	2,550 00	19,864,449¾	18,713,823¾	11,750,350¾	6,963,473
Nova Scotia.....	1	50 00	14,133	15,039	15,039	.....
Prince Edward Island.....	3	150 00	194,983	221,368½	221,368½	.....
Manitoba.....	1	50 00	14,590	.....	.....	.....
Totals.....	64	3,150 00	21,879,866¾	20,671,131½	12,905,152¾	7,765,978½
1913.						
Ontario.....	9	400 00	1,609,240½	1,584,290	795,512½	788,777½
Quebec.....	56	2,675 00	22,008,118	20,285,637½	12,513,713½	7,771,924
Nova Scotia.....	1	50 00	10,571	11,523	11,523	.....
Prince Edward Island.....	4	175 00	202,060	221,418½	221,418½	.....
Manitoba.....	1	50 00	17,152	.....	.....	.....
British Columbia.....	1	50 00	2,846	3,000	3,000	.....
Totals.....	72	3,400 00	23,849,987½	22,105,869	13,545,167½	8,560,701½

INLAND REVENUE DEPARTMENT,
OTTAWA, JUNE 1, 1913.

SESSIONAL PAPER No. 12

the Fiscal Years ended March 31, 1912 and 1913.

Cigarettes at \$2.40 per M.		Cigarettes at \$7 per M.			Snuff At 5c. per Lb.		Total Duty Collected ex manufac- tory, including License Fees.	
Manu- factured.	Paid Duty.	Ware- housed.	Manu- factured.	Paid Duty.	Ware- housed.	Manufac- tured.		Paid Duty.
No.	No.	No.	No.	No.	No.	Lbs.	Lbs.	\$ cts.
53,277,300	53,274,300	3,000	.....	.....	.....	.....	.....	174,128 05
722,972,065	696,361,715	26,610,350	2,397,320	2,325,930	71,390	534,068	534,068	2,304,320 64
.....	.....	.....	.....	.....	.....	.....	.....	801 95
5,335,500	3,828,900	1,506,600	.....	.....	.....	.....	.....	11,218 43
.....	.....	.....	.....	.....	.....	.....	.....	9,239 36
781,584,865	753,464,915	28,119,950	2,397,320	2,325,930	71,390	534,068	534,068	2,469,798 43
.....
39,384,500	39,384,500	.....	1,100	1,100	.....	.....	.....	134,706 13
931,925,967	903,595,367	28,330,600	2,407,100	2,377,100	30,000	659,992	659,992	2,846,628 80
.....	.....	.....	.....	.....	.....	.....	.....	626 15
.....	.....	.....	.....	.....	.....	.....	.....	11,246 00
5,487,800	2,068,250	3,419,550	.....	.....	.....	.....	.....	5,013 80
.....	.....	.....	.....	.....	.....	.....	.....	200 00
976,798,207	945,048,057	31,750,150	2,408,200	2,378,200	30,000	659,992	659,992	2,968,420 88

W. HIMSWORTH,
Deputy Minister.

4 GEORGE V., A. 1914

APPENDIX A.—*Continued.*—TOBACCO. MANUFACTURED BEFORE
JUNE 1, 1908.

DR. NO. 14.—WAREHOUSE RETURN for the Fiscal year ended March 31, 1913. CR.

Balance in Warehouse from last year.	Totals.	Divisions.	Ships stores.	Remaining in Ware- house.	Totals.
Tobacco.	Tobacco.		Tobacco.	Tobacco.	Tobacco.
Lbs.	Lbs.		Lbs.	Lbs.	Lbs.
461	461	St. John, N.B.		461	461
4,179½	4,179½	Victoria, B.C.	140	4,039½	4,179½
19,719½	19,719½	Sundries		19,719½	19,719½
24,360	24,360	Totals	140	24,220	24,360

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—Continued.—TOBACCO. MANUFACTURED BEFORE JUNE 1, 1908.

DR. No. 15.—COMPARATIVE STATEMENT of Warehouse Returns for the Fiscal years ended March 31, 1912 and 1913. CR.

Remaining in Warehouse from last year.		Totals.		Provinces.				Entered for Consumption.		Ships' Stores.		Written off.		Remaining in Warehouse.		Totals.			
Tobacco.	Cigarettes.	Tobacco.	Cigarettes.	1912.		1913.		Lbs.	Cts.	Lbs.	No.	Lbs.	No.	Lbs.	No.	Tobacco.	Cigarettes.		
Lbs.	No.	Lbs.	No.	Quebec	168	42 00	168	42 00	461	112,800	461	112,800	461	112,800	461	112,800	461	112,800	
461	112,800	461	112,800	New Brunswick	4,347		4,347		4,179		4,179		4,179		4,179	4,179	4,179	4,179	
4,347	19,719	4,347	19,719	British Columbia	19,719		19,719		19,719		19,719		19,719		19,719	19,719	19,719	19,719	
19,719		19,719		Sundries															
24,528	112,800	24,528	112,800	Totals	168	42 00	168	42 00	24,528	112,800	24,528	112,800	24,528	112,800	24,528	112,800	24,528	112,800	
461		461		1913.						461		461		461		461		461	
4,179		4,179		New Brunswick					4,038		4,038		4,038		4,038	4,038	4,038	4,038	
19,719		19,719		British Columbia					140		140		140		140	140	140	140	
19,719		19,719		Sundries															
24,360		24,360		Totals					140		140		140		140	24,220	24,360	24,360	

INLAND REVENUE DEPARTMENT,

W. HIMS WORTH,

OTTAWA, June 1, 1913.

Deputy Minister.

4 GEORGE V., A. 1914

APPENDIX A.—Continued.—TOBACCO, UNDER

De

No. 16.—WAREHOUSE RETURN for the

Divisions	Remaining in Warehouse from Last Year.			Warehoused.			Received
	Tobacco.	Cigarettes	Over- weight Cigarettes	Tobacco.	Cigarettes.	Over- weight Cigarettes	Tobacco.
	Lbs.	No.	No.	Lbs.	No.	No.	Lbs.
Bellefleur							2,08
Hamilton	284,582			642,182			
Ottawa							
Owen Sound							36,565
Park							21,555
Stratford							85,749
Toronto	23,854			149,245			
TOTAL	308,436			788,772			96,041
Montreal	531,888	3,727,770	9,600	7,787,276	27,456,650	8,000	44
Quebec	22,476	342,244		22,525	363,950		
Shedden				12,008			3,250
TOTAL	554,364	4,069,944	9,600	7,771,924	28,820,600	8,000	3,294
St. John, N. E.							5,245
Halifax, N. S.	1,49						39,474
Winnipeg, Man.		1,45,830			8,419,550		
Vancouver, B. C.							4,078
Victoria							223,927
TOTAL							294,717
Grand Total	564,860	4,415,244	9,600	8,560,702	31,750,150	8,000	408,758

INLAND REVENUE DEPARTMENT.
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

AMENDED RATES OF DUTY, JUNE 1, 1908.

Fiscal Year ended March 31, 1913.

from other Divisions.			Totals.			Entered for Consumption.			
Tobacco.		Cigarettes.		Tobacco.	Cigarettes.	Over-weight Cigarettes.	Tobacco At 5 cents per lb.	Cigarettes At \$2.40 per M.	Over-weight Cigarettes At \$7 per M.
In Transit last year.	Removed during year.	In transit last year.	Lbs.	No.	No.	Lbs.	No.	No.	
			2,080				2,080		
			427,114				427,114		
	17,200	500		17,700					
1,640			88,294				88,294		
			21,855				21,855		
1,020			32,560				32,560		
			170,174				170,174		
2,660	17,200	500	1,148,633	17,700			1,166,333		
			8,069,200	81,194,050	3,000,000	8,069,200	26,500,700	8,069,200	
			44,902	1,173,194		44,902	44,902	1,173,194	
			15,775			15,775			
			8,129,181	82,347,244	3,000,000	8,129,181	27,560,700	8,129,181	
			5,245			5,245			
1,100			42,944			42,944			
				4,473,200				2,411,000	
4,840			45,028			45,028			
6,200			250,147			250,147			
11,040			275,176			275,176			
14,820	17,200	500	1,648,633	17,700		1,648,633	5,277,400	1,648,633	

W. HIMSWORTH,
Deputy Minister

4 GEORGE V., A. 1914

APPENDIX A.—*Continued.*—TOBACCO. UNDER

No. 16.—WAREHOUSE RETURN for the

Divisions.	Duty.	Removed to other Divisions.		Exported.		
		Tobacco.		Cigarettes.		
		Warehoused in Divisions to which removed.	In transit.	Warehoused in Divisions to which removed.	Tobacco.	Cigarettes
	§ cts.	Lbs.	Lts.	No.	Lbs.	No.
Belleville, Ont.	104 00					
Hamilton "	33,272 38				1,103½	
Ottawa "						
Owen Sound "	1,910 25					
Perth "	1,092 75					
Stratford	1,828 00					
Toronto	7,370 60					
Totals	45,577 98				1,103½	
Montreal, Que.	410,060 89	387,598	6,115	17,200	3,284	27,000
Quebec "	2,072 45					
Sherbrooke "	729 45				50	
Totals	412,862 79	387,598	6,115	17,200	3,334	27,000
St. John, N.B.	262 25					
Halifax, N.S.	2,102 20					
Winnipeg, Man.	6,987 24					
Vancouver, B.C.	2,148 40					
Victoria "	10,449 35	21,160				
Totals	12,597 75	21,160				
Grand Totals.	480,390 21	408,758	6,115	17,200	4,437½	27,000

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

AMENDED RATES OF DUTY, JUNE 1, 1908.

Fiscal Year ended March 31, 1913—*Concluded.*

CR.

Free and Written off.		Taken for Re-working.		Remaining in Warehouse.		Totals.		
Cigarettes.	Tobacco.	Cigarettes	Tobacco.	Cigarettes.	Tobacco.	Cigarettes.		Over- weight cigarettes.
No.	Lbs.	No.	Lbs.	No.	Lbs.	No.	Lbs.	No.
					2,080			
17,700			266,563½		327,114½			
					38,205	17,700		
					21,855			
					36,560			
			22,767		170,179			
17,700			283,330½		1,105,963½	17,700		
	3,053½	38,000	745,942½	1,602,450	8,069,200½	31,194,350		39,600
	22,131		22,129½	298,800	41,602½	1,155,194		
	1,139				15,778			
	26,323½	38,000	768,072	1,901,250	8,129,581	32,349,544		39,600
					5,245			
					42,044			
				1,554,550		4,465,900		
			2,660		45,628			
					230,147			
			2,660		275,775			
17,700	26,323½	38,000	1,054,062½	6,455,800	9,648,638½	36,833,144		39,600

W. HIMSWORTH,

Deputy Minister.

APPENDIX A.—Continued—TOBACCO. UNDER

DR. No. 17.—COMPARATIVE STATEMENT of Warehouse Returns

Provinces.	Remaining in Warehouse from last year.			Warehoused.		
	Tobacco.	Cigarettes	Overweight Cigarettes.	Tobacco.	Cigarettes.	Overweight Cigarettes.
1912.	Lbs.	No.	No.	Lbs.	No.	No.
Ontario.....	327,419	.....	.....	802,505½	3,000	.....
Quebec.....	533,759	3,776,550	.....	6,963,473	26,610,350	71,390
New Brunswick.....	.....	.....	.....	.....	.....	.....
Nova Scotia.....	1,450	.....	.....	.....	.....	.....
Manitoba.....	.....	.....	.....	.....	1,506,600	.....
British Columbia.....	5,444	.....	.....	.....	.....	.....
Totals.....	868,072	3,776,550	.....	7,765,978½	28,119,950	71,390
1913.						
Ontario.....	308,516	.....	.....	788,777½	.....	.....
Quebec.....	354,353	4,018,944	9,600	7,771,924	28,330,600	30,000
New Brunswick.....	.....	.....	.....	.....	.....	.....
Nova Scotia.....	1,490	.....	.....	.....	.....	.....
Manitoba.....	.....	1,046,350	.....	.....	3,419,550	.....
British Columbia.....	.....	.....	.....	.....	.....	.....
Totals.....	664,359	5,065,294	9,600	8,560,701½	31,750,150	30,000

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

AMENDED RATES OF DUTY, JUNE 1, 1908.

for the Fiscal Years ended March 31, 1912 and 1913.

Received from other Divisions.				Totals.		
Tobacco.		Cigarettes.		Tobacco.	Cigarettes.	Overweight Cigarettes.
Removed during year.	In Transit last year.	Removed during year.	In Transit last year.			
Lbs.	Lbs.	No.	Lbs.	Lbs.	No.	No.
91,208	980	10,500		1,222,112½	13,500	
5,440	18			7,502,690	30,386,000	71,390
3,169				3,160		
29,235				30,685		
235,335	22,421			263,200	1,506,600	
364,378	23,419	10,500		9,021,847½	31,907,000	71,390
96,040	2,660	17,200	500	1,195,993½	17,700	
3,304				8,129,581	32,349,544	39,600
5,245				5,245		
39,454	1,100			42,044		
264,715	11,060			275,775	4,465,900	
408,758	14,820	17,200	500	9,648,638½	36,833,144	39,600

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—Continued.—TOBACCO. UNDER

No. 17.—COMPARATIVE STATEMENT

Provinces.	Entered for Consumption.				Removed to other Divisions.			
	Tobacco at 5c. per lb.	Cigarettes at \$2.40 per M.	Overweight Cigarettes at \$7 per M.	Duty.	Tobacco.		Cigarettes.	
					Ware- housed in Divisions to which removed.	In Transit.	Ware- housed in Divisions to which removed.	In Transit.
1912.	Lbs.	No.	No.	\$ cts.	Lbs.	Lbs.	No.	No.
Ontario	911,088			45,554 41				
Quebec	6,765,784	26,350,956	61,790	401,964 10	354,510	14,820	10,500	500
New Brunswick	3,160			158 00				
Nova Scotia	29,195			1,459 75				
Manitoba		460,250		1,104 60				
British Columbia	253,332			12,666 60	9,868			
Totals	7,962,559	26,811,206	61,790	462,907 46	364,378	14,820	10,500	500
1913.								
Ontario	911,559 ⁴			45,577 98				
Quebec	6,938,138 ⁴	27,366,094	39,600	412,862 79	387,598	6,115	17,200	....
New Brunswick	5,245			262 25				
Nova Scotia	42,044			2,102 20				
Manitoba		2,911,350		6,987 24				
British Columbia	251,955			12,597 75	21,160			
Totals	8,148,942	30,277,444	39,600	480,390 21	408,758	6,115	17,200	....

Total duty collected ex-manufactory and ex-warehouse including Canada Twist, Raw Leaf, and other materials.....
License fees.....

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

APPENDIX A.—Continued—RAW LEAF TOBACCO, INCLUDING STEMS,

DR.

No. 18.—WAREHOUSE RETURN for the

Remaining in Warehouse from last year.	Imported.	Warehoused ex-Factory.	Received from other Divisions.		Totals.	Divisions.
			Removed during year.	In Transit last year.		
Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	
1,549	6,195	954	784	.....	9,482	..... Belleville, Ont.
30,926	63,847	2,970	2,020	.....	99,763	..... Brantford "
8,141	29,398	776	1,359	304	39,978	..... Guelph "
1,375,654	2,516,287	316,197	4,699	1,117	4,213,954	..... Hamilton "
44,104	60,120	7,333	4,594	.....	116,151	..... Kingston "
258,875	990,729	73,683	8,649½	159	1,332,095½	..... London "
1,610	3,742½	.....	154	.....	5,506½	..... Ottawa "
4,490	7,575	.....	210	.....	12,275	..... Owen Sound "
2,495	907	49	.....	.....	3,451	..... Perth "
494	2,204	.....	.....	.....	2,698	..... Peterborough "
2,642	1,205	.....	441	.....	4,288	..... Port Arthur "
1,794	6,359	.....	499	.....	8,652	..... Prescott "
8,550	9,406	699	1,492	156	20,303	..... St. Catharines "
7,767	23,803½	.....	734	.....	32,304½	..... Stratford "
258,813	664,690	78,803	2,342	.....	1,004,648	..... Toronto "
15,567	86,987	4,273	1,107	.....	107,934	..... Windsor "
2,023,471	4,473,455	485,737	29,084½	1,736	7,013,483½	..... Totals
19,083½	15,113	.....	9,714	151	44,061½	..... Joliette, Que.
7,447,739½	15,334,095½	291,666	18,560	.....	23,092,061½	..... Montreal "
83,543	262,236	6,883	7,164½	.....	359,826½	..... Quebec "
.....	10,301	.....	31,821	.....	42,122	..... St. Hyacinthe "
173,507	441,673	28,344	2,264	2½	645,790½	..... Sherbrooke "
1,950	2,466	.....	.....	.....	4,416	..... Three Rivers "
7,725,823½	16,065,884½	326,893	69,523½	158½	24,188,278	..... Totals
12,163	18,583	.....	742	.....	31,488	..... St. John, N.B.
759	8,134	.....	158	.....	9,051	..... Halifax, N.S.
1,749	2,948	.....	870	.....	5,567	..... Pictou "
2,508	11,082	.....	1,028	.....	14,618	..... Totals
33,154	.....	.....	.....	.....	33,154	..... Charlottetown, P.E.I.
56,174	115,570	8,672	1,940½	.....	182,356½	..... Winnipeg, Man.
3,315	14,964	.....	276	.....	18,555	..... Moose Jaw, Sask.
19,833	121,648	15,085	534	.....	157,100	..... Calgary, Alta.
59,939	134,420	11,770	2,632	.....	199,761	..... Vancouver, B.C.
16,408	57,657	1,297	1,013	428	76,803	..... Victoria "
67,347	192,077	13,067	3,645	428	276,564	..... Totals
9,943,788½	21,013,263½	849,454	106,773½	2,317½	31,915,597	..... Grand Totals...

SESSIONAL PAPER No. 12

SCRAPS AND CUTTINGS.

Fiscal Year ended March 31, 1913.

CR.

Entered for Consumption.		Removed to other Divisions.				Remaining in Warehouse.	Totals.
Quantity.	Duty.	Warehoused in divisions to which removed.	In Transit.	Exported.	Destroyed.		
Std. lbs.	\$ cts.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.
5,420	1,517 60	1,799		954		1,309	9,482
71,494	20,018 32			2,971	104	25,194	99,763
27,571	7,891 38	276		776	34	11,321	39,978
1,912,785	537,362 56	6,285	722	405,048	267	1,888,847	4,213,954
55,754	15,652 42	288		7,333		52,776	116,151
953,392½	288,576 96	11,730	1,806	82,296		282,871	1,332,095½
4,142½	1,159 90					1,364	5,506½
7,412	2,077 04	538				1,325	12,275
836	234 08					2,615	3,451
1,957	547 96					741	2,698
1,859	520 52	2,429					4,288
5,977	1,673 56			134		2,541	8,652
11,460	3,228 68	145		699		7,999	20,303
25,440½	7,126 70	785				6,079	32,304½
619,340	174,685 42	18,211	133	81,124	1,998	283,842	1,004,648
76,548	24,383 80	674		5,318	74	25,350	107,934
3,781,358½	1,086,656 90	43,160	2,661	586,653	2,477	2,597,174	7,013,483½
30,685½	8,624 66	654	298½		157	12,266½	41,934½
14,287,692½	4,036,803 17	73,582½	56,3½	333,298	3,975½	8,414,487	23,692,064½
253,379	71,049 72	653	225	6,883	27	98,626	359,826½
21,093½	6,268 36	2,394				18,634½	42,122½
402,329½	112,726 74	2,295		29,659		211,597	645,799½
3,518	985 04	85				813	4,416
14,998,058½	4,236,457 69	59,663½	1,089½	399,840	3,259	8,756,367½	24,188,278
17,863	5,991 64					13,625	31,488
7,197	2,015 46					1,854	9,051
4,012	1,131 76					1,525	5,537
11,239	3,146 92					3,379	14,618
3,439	962 92				48	29,967	33,404
125,012½	35,725 76	1,024		11,426	919	43,975	182,356½
11,337	3,244 98			926		6,292	18,555
102,724	28,874 30	1,078		15,759	106	37,433	157,100
127,680	37,876 30	1,130		12,840		58,111	199,761
53,520	15,998 35	718		2,378		19,987	76,803
181,200	53,874 65	1,848		15,418		78,098	276,564
19,232,231½	5,453,935 76	106,773½	3,759½	1,000,022	6,809½	11,566,010½	31,915,597

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—Continued—RAW LEAF TOBACCO,

DR.

No. 19.—COMPARATIVE STATEMENT of Warehouse Returns

Remaining in Ware- house from last year.	Imported.	Warehoused ex- Factory.	Received from other Divisions.		Totals.	Provinces.
			Removed during the year.	In Transit last year.		
Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	1912.
2,141,181	3,327,022 ³ / ₄	443,399	18,647	1,459	5,981,708 ³ / ₄	Ontario
8,447,775	12,940,080 ³ / ₄	319,215	35,426 ³ / ₄	3,901	21,746,398 ³ / ₄	Quebec
15,091	14,954	.....	.....	65	30,110	New Brunswick
2,978	10,974	.....	444	.....	14,396	Nova Scotia
37,098	2,604	.....	.....	.....	39,702	Prince Edward Island
59,662	131,080	17,579	571	94	208,986	Manitoba
4,344	13,209	1,666	.....	.....	19,219	Saskatchewan
13,620	71,893	4,851	97	232	90,693	Alberta
78,330	149,566	15,126	1,223	.....	244,245	British Columbia
10,800,079	16,661,383 ³ / ₄	801,836	56,408 ³ / ₄	5,751	28,325,458	..... Totals
						1913.
2,023,471	4,473,455	485,737	29,084 ¹ / ₂	1,736	7,013,483 ¹ / ₂	Ontario
7,725,823 ³ / ₄	16,065,884 ³ / ₄	326,893	69,523 ¹ / ₂	153 ³ / ₄	24,188,278	Quebec
12,163	18,583	.....	742	.....	31,488	New Brunswick
2,508	11,082	.....	1,028	.....	14,618	Nova Scotia
33,154	.....	.....	.....	.....	33,154	Prince Edward Island
56,174	115,570	8,672	1,940 ¹ / ₂	.....	182,356 ¹ / ₂	Manitoba
3,315	14,964	.....	276	.....	18,555	Saskatchewan
19,833	121,648	15,085	531	.....	157,100	Alberta
67,347	192,077	13,067	3,645	428	276,564	British Columbia
9,943,788 ³ / ₄	21,013,263 ³ / ₄	849,454	106,773 ³ / ₄	2,317 ¹ / ₂	31,915,597	..... Totals

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

INCLUDING STEMS, SCRAPS AND CUTTINGS.

Cr.

for the Fiscal Years ended March 31, 1912 and 1913.

Entered for Consumption.		Removed in Bond to other Divisions.		Ex-ported.	Des-troyed.	Remain-ing in Ware-house.	Totals.
Quantity.	Duty.	Warehoused in divisions to which removed.	In Transit.				
Std. lbs.	\$ cts.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.
3,493,763½	997,746 61	26,139½	1,432	386,075	888	2,023,471	5,931,708½
13,593,412½	3,833,025 48	25,634	457½	395,047	5,994	7,725,823½	21,746,398½
17,339	4,854 92	127	.....	481	.....	12,163	30,119
11,888	3,328 64	.....	.....	.....	.....	2,598	14,396
4,948	1,385 44	.....	.....	1,600	.....	33,154	39,702
130,413	37,340 40	3,028	.....	19,371	.....	56,174	268,986
14,191	4,040 40	.....	.....	1,665	47	3,315	19,219
65,858	18,457 60	151	.....	4,851	.....	19,833	90,693
159,590	47,460 98	1,329	428	15,551	.....	67,347	244,245
17,491,372½	4,947,640 17	56,408½	2,317½	824,642	16,929	9,943,788½	28,325,458
3,781,358½	1,086,656 90	43,160	2,661	586,653	2,477	2,597,174	7,013,483½
14,908,658½	4,236,457 64	59,663½	1,989½	369,840	3,259½	8,756,967½	24,188,278
17,863	5,001 64	.....	.....	.....	.....	13,625	31,488
11,239	3,146 92	.....	.....	.....	.....	3,379	14,618
3,439	962 92	.....	.....	.....	48	29,667	33,154
125,012½	35,725 76	1,024	.....	11,426	919	43,975	182,356½
11,337	3,234 98	.....	.....	926	.....	6,292	18,555
102,724	28,874 30	1,978	.....	15,759	196	37,433	157,190
181,200	53,874 65	1,848	.....	15,418	.....	78,098	276,564
19,232,231½	5,453,935 76	166,773½	3,756½	1,000,022	6,809½	11,566,064½	31,915,597

W. HIMSWORTH,
Deputy Minister.

4 GEORGE V., A. 1914

APPENDIX A.—*Continued*—OTHER MATERIALS.

DR. No. 20.—WAREHOUSE RETURN for the Fiscal Year ended March 31, 1913. Cr.

Remaining in Ware- house from last year.	Ware- housed.	Totals.	Division	Entered for Consumption.		Remaining in Warehouse.	Totals.
				Quantity.	Duty.		
Lbs.	Lbs.	Lbs.		Lbs.	\$ cts.	Lbs.	Lbs.
120,156	1,688,597	1,808,753	Montreal, Q.	1,615,596	258,495 36	193,157	1,808,753
120,156	1,688,597	1,808,753	Totals...	1,615,596	258,495 36	193,157	1,808,753

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.W. HIMSWORTH,
*Deputy Minister.*APPENDIX A.—*Continued*—OTHER MATERIALS.DR. No. 21.—COMPARATIVE STATEMENT of Warehouse Returns for the Fiscal Cr.
Years ended March 31, 1912 and 1913.

Remaining in Ware- house from last year.	Ware- housed.	Totals.	Provinces.	Entered for Consumption.		Remaining in Warehouse.	Totals.
				Quantity.	Duty.		
Lbs.	Lbs.	Lbs.	1912.	Lbs.	\$ cts.	Lbs.	Lbs.
165,994	1,326,306	1,492,300	Quebec.....	1,372,144	219,543 04	120,156	1,492,300
			1913.				
120,156	1,688,597	1,808,753	Quebec.....	1,615,596	258,495 36	193,157	1,808,753

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.W. HIMSWORTH,
Deputy Minister.

SESSIONAL PAPER No. 12

APPENDIX A.—Continued—CANADA TWIST TOBACCO.

No. 22.—STATEMENT of Revenue collected from Canada Twist Tobacco for the Fiscal Year ended March 31, 1913.

Divisions.	Licenses		Canada Twist, at 5 cts. per lb.	Total Duty Collected including License Fees.
	No.	Fees.		
		\$	Lbs.	\$ cts.
Ottawa, Ont.	2	4	260	17 00
Prescott "	1	2	660	35 00
Totals	3	6	920	52 00
Montreal, Quebec	28	56	16,615	886 75
Totals	28	56	16,615	886 75
Grand totals	31	62	17,535	938 75

INLAND REVENUE DEPARTMENT,
OTTAWA, JUNE 1, 1913.

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—Continued—CANADA TWIST TOBACCO.

No. 23.—COMPARATIVE STATEMENT for the Fiscal Years ended March 31, 1912 and 1913.

Provinces.	Licenses		Canada Twist, at 5 cts. per lb.	Total Duty Collected including License Fees.
	No.	Fees.		
		\$	Lbs.	\$ cts.
1912				
Ontario	8	16	1,260	79 00
Quebec	32	64	15,838	855 00
Totals	40	80	17,098	934 00
1913				
Ontario	3	6	920	52 00
Quebec	28	56	16,615	886 75
Totals	31	62	17,535	938 75

INLAND REVENUE DEPARTMENT,
OTTAWA, JUNE 1, 1913.

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—Continued.—CIGARS.

No. 24.—RETURN of Manufactures for the Fiscal year ended March 31, 1913.

Divisions.	Licenses.		Total Raw Leaf Tobacco and other materials actually used.	Deficiencies Paying Duty.		Cigars at \$3 per thousand.			Cigars at \$2 per thousand.			Total Duty collected excluding Manufacture-roy, License Fees.
	No.	Fees.		Cigars.	Manufactured.	Paid Duty.	Ware-housed.	Manufactured.	Paid Duty.	Ware-housed.		
											No.	
Belleville, Ont.....	2	100 00	4,663	.....	.....	.....	251,725	49,375	202,350	198 75
Bramford ".....	5	250 00	79,427	1,200	1,200	.....	4,283,435	3,084,085	1,249,850	6,321 77	
Gravel ".....	9	425 00	47,886	.....	.....	.....	2,533,410	1,282,885	1,252,525	2,980 77
Hamilton ".....	11	550 00	388,263	4,020	3,000	1,020	18,126,260	5,465,485	12,660,775	11,489 37		
Kingston ".....	2	100 00	63,437	.....	.....	.....	3,386,250	1,180,000	2,206,250	2,469 00
London ".....	23	1,150 00	958,814	.....	.....	.....	47,364,710	34,058,965	13,305,545	69,267 93
Ottawa ".....	2	75 00	12,274	.....	.....	.....	679,640	679,640	.....	1,434 28
Owen Sound ".....	2	100 00	21,327	.....	.....	.....	999,185	999,185	.....	2,098 37
Perth ".....	2	100 00	1,146	.....	.....	.....	51,875	37,675	14,200	191 10
Peterborough ".....	1	50 00	1,938	.....	.....	.....	106,825	106,825	.....	263 65
Port Arthur ".....	1	50 00	1,560	.....	.....	.....	94,400	53,800	40,600	157 60
Prescott ".....	2	100 00	11,217	.....	.....	.....	585,690	447,650	137,050	995 30
St. Catharines ".....	9	450 00	26,670	.....	.....	.....	1,601,800	1,591,800	10,000	3,633 60
Stearford ".....	4	200 00	29,825	.....	.....	.....	1,499,430	1,218,330	281,100	2,643 29
Toronto ".....	20	975 00	566,044	.....	.....	.....	27,473,930	17,838,345	9,635,585	36,651 69
Windsor ".....	7	350 00	99,080	.....	.....	.....	5,169,410	4,465,360	704,050	9,280 72
Totals.....	102	5,025 00	2,303,572	5,220	4,200	1,020	114,210,185	72,509,405	41,700,780	150,078 79		
Abolite, Que.....	7	350 00	134,336	.....	.....	.....	7,546,700	4,904,850	2,641,850	10,164 00
Montreal ".....	44	2,075 00	2,519,317	480	480	.....	132,608,045	81,122,410	51,485,635	165,063 12	
Quebec ".....	4	200 00	88,029	6,162	4,170	1,992	5,374,245	2,689,825	2,684,420	5,563 80		
St. Hyacinthe ".....	5	225 00	19,646	.....	.....	.....	1,312,250	426,750	885,500	1,078 50
Sherbrooke ".....	6	300 00	178,235	.....	.....	.....	9,448,005	4,144,160	5,304,345	8,388 32
Three Rivers ".....	2	100 00	13,582	.....	.....	.....	769,715	560,065	209,650	1,229 13
Totals.....	68	3,250 00	2,953,147	6,642	4,650	1,992	157,059,460	93,848,090	63,211,400	191,647 87		

SESSIONAL PAPER No. 12

St. John, N.B.	2	100 00	68,274					3,762,240	923,590	2,838,650	1,947 18
Halifax, N.S.	2	100 00	16,638					819,795	512,890	306,905	1,125 78
Pictou "	2	100 00	5,631					277,125	238,925	38,500	577 85
Totals	4	200 00	22,209					1,097,220	751,815	345,405	1,703 63
Winnipeg	15	750 00	146,592}	23,779	3,006	3,006		7,052,255	5,658,220	1,394,035	12,123 00
Moose-Jaw, Sask.	8	300 00	9,495	2,415				602,525	602,525		1,509 85
Calgary, Alberta.	12	600 00	91,314	2,022				1,613,000	1,613,000		9,831 25
Vancouver, B.C.	28	1,250 00	129,115	11	6,000	6,000		6,686,980	6,423,105	264,875	14,493 24
Victoria, B.C.	11	700 00	48,499					2,657,650	2,657,650		6,015 30
Totals	42	2,025 00	177,614	14	6,000	6,000		9,344,630	9,082,755	261,875	29,298 54
Grand Totals	253	12,250 00	5,775,308}	383,922	20,806	17,806	3,012	297,741,515	187,989,370	109,752,145	389,050 11

ISLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMS WORTH,
Deputy Minister.

APPENDIX. A—Continued—CIGARS.

No. 25.—COMPARATIVE STATEMENT of Manufactures for the Fiscal Years ended March 31, 1912 and 1913.

Provinces.	Licenses.		Total Raw Leaf Tobacco and other Materials actually used.	Deficiencies Paying Duty.		Cigars at \$3 per Thousand.				Cigars at \$2 per Thousand.				Total Duty Collected exclusive of manufacturing License Fees.
	No.	Fees.		No.	Cigars.	Manufactured.	Paid Duty.	Warehoused.	No.	Manufactured.	Paid Duty.	Warehoused.	No.	
1912.		\$ cts.	Lbs.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	\$ cts.
Ontario	99	4,875 00	1,922,564½	111,431	4,950	4,950	4,950	.....	98,390,485	63,176,585	35,213,906	.....	131,465 89
Quebec	63	3,025 00	2,394,801	6,947	18,150	18,150	.....	.....	126,357,235	76,782,825	49,574,410	.....	156,658 99
New Brunswick	3	150 00	62,251	.....	.....	.....	.....	.....	3,750,575	912,050	2,838,525	.....	1,974 10
Nova Scotia	4	200 00	17,556	.....	.....	.....	.....	.....	925,205	782,520	142,685	.....	1,765 04
Manitoba	14	675 00	140,704	.....	2,901	1,482	1,422	.....	6,988,485	4,405,550	2,582,935	.....	9,490 57
Saskatchewan	4	200 00	14,698	.....	.....	.....	.....	.....	703,070	709,070	.....	.....	1,632 94
Alberta	10	450 00	60,418½	.....	.....	.....	.....	.....	2,960,575	2,943,175	17,400	.....	6,338 03
British Columbia	38	1,900 00	159,560	.....	1,020	1,020	.....	.....	8,798,280	8,719,080	79,200	.....	19,344 92
Totals	235	11,475 00	4,772,552½	128,468	27,024	25,602	1,422	.....	248,879,910	158,430,835	90,449,055	.....	328,670 48

APPENDIX A.—Continued—CIGARS.

Dr. No. 26.—WAREHOUSE RETURN for the Fiscal Year ended March 31, 1913.

Divisions.	Remaining in Warehouse from Last Year.		Warehoused at \$2 per M.		Received from Other Divisions.		Totals.	
	Foreign at \$6 per M.	At \$2 per M.	No.	No.	Removed during the year at \$2 per M.	In Transit last year at \$2 per M.	Foreign at \$6 per M.	At \$2 per M.
	No.	No.	No.	No.	No.	No.	No.	No.
Belleville, Ont.		117,600		292,350				319,950
Brantford "	107,400	1,217,925		1,249,850			107,400	2,467,775
Guelph "		430,725		1,252,525				1,683,250
Hamilton "		524,100		1,020	1,343,000	50,000		14,578,895
Kingston "		730,150		12,660,775				2,936,400
London "		2,856,485		2,296,250				16,162,630
Ottawa "		75,000		13,305,545	10,000			85,000
Perth "		11,500		14,200				14,200
Peterborough "		45,550		40,600				11,500
Port Arthur "		53,000		137,950				86,150
Prescott "		34,000		10,000				190,950
St. Catharines "		41,700		281,100				44,000
Stratford "		1,136,750		9,635,585	30,000			322,800
Toronto "	26,400	345,475		704,050			26,400	10,802,335
Windsor "								1,049,525
Totals	133,800	7,619,960		41,701,800	1,383,000	50,000	133,800	50,754,760
Joliette, Que.		770,465		2,641,850				3,412,315
Montreal "	19,300	8,168,675		51,485,635	10,000	25,000	19,300	61,337,000
Quebec "		1,407,830		1,992	1,677,750			4,004,242
St. Hyacinthe "		2,130,855		885,500				885,500
Sherbrooke "		103,100		5,304,345				7,435,200
Three Rivers "				209,650				312,750
Totals	19,300	12,580,925		63,213,392	1,687,750	25,000	19,300	77,507,007

SESSIONAL PAPER No. 12

St. John, N.B.	885,225	2,838,650			3,723,875
Halifax, N.S.	51,950	306,905			358,855
Pictou "		38,500			38,500
Totals	51,950	345,405			397,355
Winnipeg, Man.	512,690	1,394,035			1,906,725
Calgary, Alberta	17,400				17,400
Vancouver, B.C.	44,200	261,875			306,075
Grand Totals	153,100	21,712,350	109,755,157	3,070,750	134,613,257

* Cigars at \$3 per M.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HUMSWORTH,
Deputy Minister.

CR.

APPENDIX A.—Continued—CIGARS.

No. 26.—WAREHOUSE RETURN for the Fiscal Year ended March 31, 1913.

Divisions.	Entered for Consumption.			Removed to Other Divisions.		Exported at \$2 per M.	Written off at \$2 per M.	Remaining in Warehouse.		Totals.			
	Quantity.		Duty. \$ cts.	Warehouses in Divisions to which removed at \$2 per M.	In Transit at \$2 per M.			Foreign at \$6 per M.	At \$2 per M.	Foreign at \$6 per M.	No.	At \$2 per M.	No.
	Foreign at \$6 per M.	No.											
Bellefleur, Out.		No.									No.		
Brantford	107,400	237,000	474 00						82,950		319,950		
Guelph		1,387,750	3,419 90						1,080,925	107,400	2,467,775		
Hamilton		1,491,465	2,892 93						281,785		1,683,250		
Kingston		12,703,556	25,542 16						1,808,325		14,578,895		
London		2,195,000	4,212 00						830,400		2,936,400		
Ottawa		12,281,735	24,563 59						3,880,235		16,162,030		
Perth		35,000	70 00						50,000		85,000		
Peterborough		14,200	28 40								14,200		
Port Arthur		10,000	20 00						1,500		11,500		
Prescott		86,150	172 30						27,700		86,150		
St. Catharines		163,250	326 50								190,950		
Stratford		44,000	88 00								44,000		
Toronto		271,200	542 40						51,600		322,800		
Windsor		9,106,605	18,213 21						1,695,730		10,802,335		
Totals	6,100	681,275	1,399 15					20,300	368,250	26,400	1,049,525		
	113,500	40,596,260	81,874 54					20,300	10,158,500	133,800	50,754,760		
Loliette, Que.		1,965,290	3,930 58						436,950		3,422,315		
Montreal		50,617,390	101,235 98	1,000,075	20,000			19,300	9,328,470	19,300	61,357,060		
Quebec		2,754,390	5,508 78	1,363,000	37,500	10,100			41,992		4,094,242		
St. Hyacinthe		4,546,935	9,093 87				22,500		1,315,360		885,500		
Sherbrooke		197,800	395 60	707,675	147,500				30,325		7,435,200		
Three Rivers									2,488,265		312,750		
Totals		60,482,465	120,964 81	3,070,750	205,000	10,100	22,500	19,300	13,716,312	19,300	77,507,007		

SESSIONAL PAPER No. 12

St. John, N.B.	3,052,500	6,105 00					671,375	3,723,875
Halifax, N.S.	269,475	538 95					89,380	358,855
Pictou "	22,500	45 00					16,000	38,500
Totals	291,975	583 95					105,380	397,355
Winnipeg, Man	1,582,170	3,164 34					324,555	1,906,725
Calgary, Alberta	17,400	34 80						17,400
Vancouver, B.C.	245,575	491 15					60,500	306,075
Grand Totals	113,500	106,298,285	215,218 59	3,070,750	205,000	10,100	25,650,022	133,100
							39,600	134,613,257

* Cigars at \$3 per M.

INLAND REVENUE DEPARTMENT,

OTTAWA, JUNE 1, 1913.

W. HIMS WORTH,

Deputy Minister.

APPENDIX A.—Continued—CIGARS.

DR. No. 27.—COMPARATIVE STATEMENT of Warehouse Returns for the Fiscal Years ended March 31, 1912 and 1913.

Provinces.	Remaining in Warehouse from last year.			Warehoused at \$2 per M.	Received from other Divisions.		Totals.			Entered for Consumption.		
	Foreign at \$6 per M.	At \$2 per M.	Canadian at \$3 per M.		Removed during the year.	In Transit last year.	Foreign at \$6 per M.	At \$2 per M.	Canadian at \$3 per M.	Quantity.		Duty.
										Foreign at \$6 M.	No.	
1912.												
Ontario.....	247,275	10,394,175		35,213,900	1,729,000	247,275	47,328,075	113,475	39,645,490		79,971 83	
Quebec.....	82,630	13,106,105	20,000	49,574,410	441,300	82,650	63,122,015	63,350	48,349,590		97,079 28	
New Brunswick.....	1,200,300			2,838,525					3,153,600		6,307 20	
Nova Scotia.....	67,575			142,685			210,260		158,310		316 62	
Manitoba.....		536,860		1,422			3,121,217		2,607,105		5,218 47	
Saskatchewan.....		5,975		2,582,935			5,975		5,975		11 95	
Alberta.....		17,400		17,400			17,400					
British Columbia.....		79,200		79,200			79,200		35,000		70 00	
Totals.....	329,925	25,310,990	20,000	90,450,477	2,161,500	329,925	117,922,967	176,825	93,956,492		188,975 35	
1913.												
Ontario.....	133,800	7,619,960		*1,020 41,760,780	1,383,000	133,800	50,754,760	113,500	50,595,240	*1,020	81,874 54	
Quebec.....	19,300	12,580,925		1,992 63,211,400	1,687,750	19,300	77,597,067		60,482,403	60,482,403	129,964 81	
New Brunswick.....		835,225		2,838,650			3,723,875		3,052,500		6,105 00	
Nova Scotia.....		51,950		345,405			397,355		291,975		583 95	
Manitoba.....		512,600		1,394,035			1,906,725		1,582,170		3,164 34	
Alberta.....		17,400					17,400		17,400		34 80	
British Columbia.....		44,200		261,875			306,075		245,575		491 15	
Totals.....	153,100	21,712,350		109,755,157	3,070,750	153,100	134,613,257	113,500	106,208,285		213,218 59	

* Cigars at \$3 per M.

APPENDIX A.—Continued.—CIGARS.
No. 27.—COMPARATIVE STATEMENT of Warehouse Returns for the Fiscal Years ended March 31, 1912 and 1913—Concluded. Cr.

Provinces.	Removed to other Divisions.		Written off.		Remaining in Warehouse.		Totals.		
	Warehouses in Divisions to which removed.	No.	At \$2 per M.	Canadian at \$3 per M.	Foreign at \$6 per M.	At \$2 per M.	Foreign at \$6 per M.	Canadian at \$3 per M.	
1912.									
Ontario	59,000		2,625	20,000	131,800	7,619,900	247,275	47,328,075	
Quebec	2,111,500	75,000		20,000	19,300	12,680,925	82,650	63,132,015	
New Brunswick						855,225		4,038,825	
Nova Scotia						51,350		240,260	
Manitoba						512,600		3,121,217	
Saskatchewan						17,400		5,975	
Alberta						44,200		17,400	
British Columbia								79,200	
Totals	2,161,500	75,000	2,625	20,000	153,100	21,712,350	329,925	117,922,967	
1913.									
Ontario					20,300	10,178,500	133,800	50,754,760	
Quebec						14,392	19,300	77,567,067	
New Brunswick					19,300	13,714,320		3,723,875	
Nova Scotia						671,375		307,355	
Manitoba						105,380		1,906,725	
Alberta						321,555		17,400	
British Columbia						60,500		806,075	
Totals	3,070,750	205,000	22,500		39,600	25,036,622	153,100	134,613,257	
		1912.		1913.					
		\$ 506,170 83		\$ 500,018 70					
		11,475 00		12,250 00					
		\$ 517,645 83		\$ 602,268 70					

Totals

Total duty collected, ex-manufactory and ex-warehouse
License fees

ISLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.
W. HUMSWORTH,
Deputy Minister.

4 GEORGE V., A. 1914

APPENDIX A—*Continued*—INSPECTION OF PETROLEUM.

No. 28.—RETURN of Inspected Petroleum and Naphtha shipped from Refineries, during the Fiscal Year ended March 31, 1913.

Divisions.	Licenses.		Petroleum.	Naphtha.	Totals.
	No.	Fees.			
		\$	Gallons.	Gallons.	Gallons.
London, Ont.	3	3	21,024,455 47	4,658,721 74	25,683,177 21
Toronto, "	1	1	1,346,590 37	2,175,267 21	3,521,857 58
Windsor, "	1	1	114,391 50	46,772 90	161,164 40
Totals	5	5	22,485,437 34	6,880,761 85	29,366,199 19

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

APPENDIX A.—*Continued*—INSPECTION OF PETROLEUM.

No. 29.—COMPARATIVE STATEMENT of Inspected Petroleum and Naphtha shipped from Refineries, during the Fiscal Years ended March 31, 1912 and 1913.

Provinces.	Licenses.		Petroleum.	Naphtha.	Totals.
	No.	Fees.			
		\$	Gallons.	Gallons.	Gallons.
1912.					
Ontario.....	4	4	20,886,072 43	5,577,591 62	26,463,664 05
1913.					
Ontario.....	5	5	22,485,437 34	6,889,761 85	29,366,199 19

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

APPENDIX A.—Continued—MANUFACTURES IN BOND.

No. 30.—RETURN of Manufactures for the

Divisions.	Licenses.		Material Used.			
	No.	Fees.	Spirits.	Beer, Wines, &c.	Nitric Acid.	Mercury.
		§ cts.	Gallons.	Gallons.	Lbs.	Lbs.
Belleville, Ont.	1	50 00	8,275 09	108 20		
Brantford "	1	50 00	7,675 29	109 15*		
Hamilton "	3	125 00	18,055 30	282 80		
Kingston "	2	100 00	11,916 29	138 56		
Ottawa "	1	50 00	5,728 50	12 50		
Perth "	2	100 00				
Toronto "	9	450 00	173,165 49	1,544 70		
Windsor "	9	450 00	21,567 32	163 30		
Totals.....	28	1,375 00	246,383 28	{ 109 15* 2,250 06 }		
Montreal, Que.....	12	575 00	49,185 46	408 00†		
Quebec "	1	50 00	14,646 89	133 00		
St. Hyacinthe "	2	100 00	7,902 41	292 18		
Sherbrooke "	1	300 00	40,012 86		188,838	23,775
Totals.....	16	1,025 00	111,747 62	{ 408 00† 425 18 }	188,838	23,775
St. John, N.B.	2	100 00	17,754 83	161 80		
Winnipeg, Man	3	150 00	57,327 33	380 00		
Vancouver, B.C.....	1	50 00	7,613 53	113 20		
Grand Totals.....	50	2,700 00	440,826 59	{ 408 00† 109 15* 3,330 24 }	188,838	23,775

* Malt extract. † Vinegar.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

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Fiscal Year ended March 31, 1913.

Manufactured.		Paid Duty ex-Manufacture.		Warehoused.		Total Duty Collected ex- Manufacture including License Fees.
Vinegar.	Crude Fulminate.	Vinegar.	Duty.	Vinegar.	Crude Fulminate.	
Gallons.	Lbs.	Gallons.	\$ cts.	Gallons.	Lbs.	\$ cts.
53,666 69		23,057 01	922 28	30,609 68		972 28
50,353 87		50,353 87	2,014 20			2,064 20
117,791 62		32,257 79	1,299 30	85,533 83		1,415 30
84,236 37		16,640 73	665 63	67,595 64		765 63
23,572 69				23,572 69		50 00
						100 00
1,090,082 07		120,019 46	4,800 75	970,062 61		5,250 75
125,984 78		125,984 78	5,039 39			5,489 39
1,545,688 09		368,313 64	14,732 55	1,177,374 45		16,197 55
227,344 82		180,860 87	7,234 45	48,483 95		7,809 45
89,483 21		72,394 40	2,895 56	17,092 11		2,945 56
52,404 67		16,067 30	642 79	36,337 37		742 79
	27,493				27,493	300 00
369,232 70	27,493	269,319 27	10,772 71	99,913 43	27,493	11,797 71
190,604 81		67,223 27	2,688 97	33,381 54		2,788 97
334,025 78		268,627 61	10,745 11	65,398 17		10,895 11
42,957 04		38,063 69	1,522 56	4,893 35		1,572 56
2,392,508 42	27,493	1,011,547 48	40,461 99	1,380,960 94	27,493	43,161 99

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—Continued—MANUFACTURES IN BOND.

No. 31.—COMPARATIVE STATEMENT of Manufactures for

Provinces.	Licenses.		Materials Used.			
	No.	Fees.	Spirits.	Beer, Wines, &c.	Nitric Acid.	Mercury.
		8 cts.	Gallons.	Gallons.	Lbs.	Lbs.
1912.						
Ontario	29	1,450 00	208,044 14	{ *109 90 +3,389 12 1,971 48	170,217	21,155
Quebec	16	1,025 00	105,732 36	748 73		
New Brunswick ..	2	100 00	16,425 31	201 30		
Manitoba	3	150 00	46,418 40	77 50		
British Columbia ..	1	50 00	5,773 14	84 20		
Totals	51	2,775 00	382,393 35	{ *109 90 +3,389 12 3,083 21	170,217	21,155
1913.						
Ontario	28	1,375 00	246,383 28	{ *109 15 2,250 06 +408 00	188,838	23,775
Quebec	16	1,025 00	111,747 62	425 18		
New Brunswick ..	2	100 00	17,754 83	161 80		
Manitoba	3	150 00	57,327 33	380 00		
British Columbia ..	1	50 00	7,613 53	113 20		
Totals	50	2,700 00	440,826 59	{ *109 15 +408 00 3,330 24	188,838	23,775

* Malt extract. † Vinegar.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

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the Fiscal Years ended March 31, 1912 and 1913.

Manufactured.		Paid Duty ex-Manufactory.		Warehoused.		Total Duty Collected ex-Manufactory including License Fees.
Vinegar.	Crude Fulminate.	Vinegar.	Duty.	Vinegar.	Crude Fulminate.	
Gallons.	Lbs.	Gallons.	§ cts.	Gallons.	Lbs.	§ cts.
1,229,581 25	.....	118,037 74	16,721 54	811,543 51	.....	18,171 54
368,684 43	24,885	256,462 81	10,258 39	112,221 62	24,885	11,283 39
87,219 58	.....	76,682 35	3,067 34	10,587 23	.....	3,167 34
286,935 72	.....	223,961 50	8,958 47	62,974 22	.....	9,108 47
33,738 69	.....	33,738 09	1,349 52	.....	.....	1,399 52
2,006,159 07	24,885	1,098,882 49	40,355 26	997,276 58	24,885	43,130 26
1,545,688 09	.....	368,313 64	14,732 55	1,177,374 45	.....	19,197 55
369,232 70	27,493	269,319 27	10,772 71	99,913 43	27,493	11,797 71
100,604 81	.....	67,223 27	2,688 97	33,381 54	.....	2,788 97
334,025 78	.....	268,627 61	10,745 11	65,398 17	.....	10,895 11
42,957 04	.....	38,063 69	1,522 56	4,893 35	.....	1,572 56
2,392,508 42	27,493	1,011,547 48	40,461 90	1,380,960 94	27,493	43,161 90

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—Continued.—MANUFACTURES IN BOND

DR.

No. 32.—WAREHOUSE RETURN for the

Remaining in Warehouse from last year.	Warehoused.		Received from other Divisions.	Totals.	
	Vinegar.	Crude Fulminate.	Vinegar.	Vinegar.	Crude Fulminate.
Vinegar.	Vinegar.	Crude Fulminate.	Removed during the year.	Vinegar.	Crude Fulminate.
Galls.	Galls.	Lbs.	Galls.	Galls.	Lbs.
6,912·54	30,609·68	.....	.....	37,522·22	.....
18,641·35	85,533·83	.....	20,085·74	20,085·74	.....
17,581·77	67,595·64	.....	3,270·48	107,445·66	.....
2,568·48	23,572·69	.....	.....	85,177·41	.....
148,272·68	970,962·61	.....	.....	26,141·17	.....
193,976·82	1,177,374·45	.....	23,356·22	1,118,335·29	.....
42,514·44	46,483·95	.....	.....	88,998·39	.....
18,072·35	17,092·11	.....	.....	35,164·46	.....
48,795·70	36,337·37	.....	.....	85,133·07	.....
.....	.....	27,493	.....	.....	27,493
109,382·49	99,913·43	27,493	.....	269,295·92	27,493
8,149·21	33,381·54	.....	.....	41,530·75	.....
38,082·56	65,398·17	.....	8,780·97	112,261·70	.....
4,834·80	4,893·35	.....	.....	9,728·15	.....
354,425·88	1,380,960·94	27,493	32,137·19	1,767,524·01	27,493

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

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Fiscal Year ended March 31, 1913.

Cr.

Divisions.	Entered for Consumption.		Removed to other Divisions.	Exported.	Remaining in Warehouse.	Totals.	
			Vinegar.		Vinegar.		
	Vinegar.	Duty.	Warehoused in Divisions to which removed.	Crude Fulminate.	Vinegar.	Vinegar.	Crude Fulminate.
	Galls.	\$ cts.	Galls.	Lbs.	Galls.	Galls.	Lbs.
Belleville, Ont.	29,354 06	1,174 14	.....	.....	8,168 16	37,522 22	.....
Brantford "	29,985 74	893 43	.....	.....	.....	29,985 74	.....
Hamilton "	83,712 73	3,348 49	.....	.....	23,732 93	107,445 66	.....
Kingston "	53,839 02	2,153 21	.....	8,780 97	22,566 42	85,177 41	.....
Ottawa "	16,857 51	674 39	.....	.....	9,283 66	26,141 17	.....
Toronto "	831,688 10	33,267 50	23,356 22	.....	263,290 97	1,118,335 29	.....
....Totals.	1,035,528 16	41,421 97	32,137 19	.....	327,042 14	1,394,707 49	.....
Montreal, Que.	52,074 92	2,082 30	.....	.....	36,923 47	88,998 39	.....
Quebec "	16,411 69	657 66	1,630 75	.....	17,092 11	35,164 46	.....
St. Hyacinthe "	37,684 87	1,597 37	.....	.....	47,448 29	85,133 07	.....
Sherbrooke " .....	.....	.....	.....	27,493	.....	.....	27,493
....Totals.	106,201 39	4,248 02	1,630 75	27,493	101,463 78	209,295 92	27,493
St. John, N.B.	7,563 72	302 55	.....	.....	33,967 03	41,530 75	.....
Winnipeg, Man.	53,335 86	2,131 44	.....	.....	58,925 84	112,261 70	.....
Vancouver, B.C.	4,834 80	193 39	.....	.....	4,896 35	9,728 15	.....
....Grand Totals	1,267,463 93	48,298 47	32,137 19	27,493	526,292 14	1,767,524 01	27,493

* Written off.

W. HILMSWORTH,
Deputy Minister.

APPENDIX A.—Continued.—MANUFACTURES IN BOND.

DR. No. 33.—COMPARATIVE STATEMENT of Warehouse Returns

Remaining in Warehouse from last year.	Warehoused.		Received from other Divisions.		Totals.		Provinces.
	Vinegar.	Crude Fulminate.	Vinegar.		Vinegar.	Crude Fulminate.	
Galls.	Galls.	Lbs.	Removed during the year.	In Transit last year.	Galls.	Lbs.	1912.
272,352 95	811,543 51		6,932 65		1,090,829 11		Ontario
82,190 82	112,221 62	24,885	4,596 80		199,009 24	24,885	Quebec
6,390 36	10,537 23				16,927 59		New Brunswick..
30,924 95	62,974 22		14,842 25	3,727 68	112,469 10		Manitoba
4,834 80					4,834 80		British Columbia
396,693 88	997,276 58	24,885	26,371 70	3,727 68	1,424,069 84	24,885	Totals.....
							1913.
193,976 82	1,177,374 45		23,356 22		1,394,707 49		Ontario.....
109,382 49	99,913 43	27,493			209,295 92	27,493	Quebec
8,149 21	33,381 54				41,530 75		New Brunswick..
38,082 56	65,398 17		8,780 97		112,261 70		Manitoba
4,834 80	4,893 35				9,728 15		British Columbia
354,425 88	1,380,960 94	27,493	32,137 19		1,767,524 01	27,493	Totals.....

INLAND REVENUE DEPARTMENT,
OTTAWA, JUNE 1, 1913.

SESSIONAL PAPER No. 12

for the Fiscal Years ended March 31, 1912 and 1913.

Cr.

Entered for Consumption.		Removed to other Divisions.	Exported.	Remaining in Warehouse.	Totals.	
		Vinegar.		Vinegar.	Vin gar.	Crude Fulminate.
Vinegar.	Duty.	Warehoused in Divisions to which removed.	Crude Fulminate	Vinegar.	Vin gar.	Crude Fulminate.
Galls.	\$ cts	Galls.	Lbs.	Galls.	Galls.	Lbs.
871,558 22	34,862 34	3,519 17 21,774 00		193,976 82	1,090,829 11	
85,029 95	3,401 22	4,596 80	24,885	109,382 49	199,069 21	24,885
8,778 38	351 14			8,149 21	16,927 59	
74,386 54	2,975 15			38,082 56	112,469 10	
				4,834 80	4,834 80	
1,039,753 09	41,599 15	*3,519 17 26,371 70	24,885	354,425 88	1,424,069 84	24,885
1,035,528 16	41,421 07	32,137 19		327,042 14	1,394,707 49	
106,201 39	4,248 02	*1,630 75	27,493	101,463 78	209,295 92	27,493
7,563 72	302 55			33,967 03	41,530 75	
53,335 86	2,133 44			58,925 84	112,261 70	
4,834 80	193 39			4,893 35	9,728 15	
1,207,463 93	48,298 47	*1,630 75 32,137 19	27,493	526,292 14	1,767,524 01	27,493

*Written off.

	1912.	1913.
Total duty collected, ex-manufactory and ex-warehouse.....	\$ 81,945 41	\$ 88,760 37
Licenses fees.....	2,775 09	2,700 00
Totals.....	\$ 84,720 41	\$ 91,460 37

W. HIMSWORTH,
Deputy Minister.

APPENDIX A — *Continued.*—ACETIC ACID.

No. 34.—RETURN of Manufactures for the Fiscal Year ended March 31, 1913.

DIVISIONS.	Licenses.		Manu- factured.	Paid Duty ex-Manufactory.		Total Duty Collected ex- Manufactory including License Fees.
	No.	Fees.	Acetic Acid.	Acetic Acid.	Duty.	
		\$ cts.	Galls.	Galls.	\$ cts.	\$ cts.
Montreal, Que.	1	50 00	261,890 28	261,890 28	10,475 60	10,525 60

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

APPENDIX A.—*Continued.*—ACETIC ACID.

No. 35.—COMPARATIVE STATEMENT of Manufactures for the Fiscal Years ended March 31, 1912 and 1913.

Provinces.	Licenses.		Manu- factured.	Paid Duty ex-Manufactory.		Ware- housed.	Total Duty Collected ex- Manufactory including License Fees.
	No.	Fees.	Acetic Acid.	Acetic Acid.	Duty.	Acetic Acid.	
		\$ cts.	Galls.	Galls.	\$ cts.	Galls.	\$ cts.
1912.		\$ cts.	Galls.	Galls.	\$ cts.	Galls.	\$ cts.
Quebec	2	150 00	278,749 02	256,551 67	10,262 06	22,197 35	10,412 06
1913.							
Quebec	1	50 00	261,890 28	261,890 28	10,475 60	.....	10,525 60

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

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APPENDIX A.—Continued.—ACETIC ACID.

No. 36.— WAREHOUSE RETURN for the Fiscal Year ended March 31, 1913.

DR.			CR.			
Remaining in Warehouse from Last Year,	Warehoused.	Total.	Division.	Entered for Consumption.	Total.	
Acetic Acid.	Acetic Acid.	Acetic Acid.		Acetic Acid.	Duty.	Acetic Acid.
Galls.	Galls.	Galls.		Galls.	\$ cts.	Galls.
*						

* No warehousing transactions during year.

APPENDIX A.—Continued.—ACETIC ACID.

No. 37.—COMPARATIVE STATEMENT of Warehouse Returns for the Fiscal Years ended March 31, 1912 and 1913.

DR.		CR.			
Warehoused.	Total.	Provinces.	Entered for Consumption.	Total.	
Acetic Acid.	Acetic Acid.		Acetic Acid.	Duty.	Acetic Acid.
Galls.	Galls.	1912.	Galls.	\$ cts.	Galls.
22,197 35	22,197 35	Quebec.	22,197 35	887 89	22,197 35
		1913			
		Quebec.			

	1912.	1913
Total duty collected ex-manufactory and ex-warehouse...	\$ 11,149 94	\$ 10,475 60
License fees	150 00	50 00
Totals.....	\$ 11,299 95	\$ 10,525 60

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

(A)

METHYLATED SPIRITS.

No. 38.—STATEMENT showing the quantity of Raw Materials on hand on April 1, 1912, and March 31, 1913, and brought in during the year ended March 31, 1913.

DR.

CR.

Names of Articles.	Stock on hand April 1, 1911.	Brought in during the year.	Total to be Accounted for.	Used in manufacture of Methylated Spirits.	Sold.	Stock on hand March 31, 1912.	Total Accounted for.
	Prf galls.	Prf galls.	Prf galls.	Prf galls.	Prf galls.	Prf galls.	Prf galls.
Alcohol.....	1,730·19	216,124·15	217,854·34	212,007·21	.....	5,847·13	217,854·34
Wood Naphtha...	10,559·12	28,749·89	39,309·01	37,417·13	.....	1,882·88	39,309·01

(B)

STATEMENT showing the quantity of Raw Materials used, and Methylated Spirits produced therefrom.

DR.

CR.

Alcohol used Statement (A) above.	Wood Naphtha used Statement (A) above.	Methylated Spirits used Statement (C) below.	Total to be Accounted for.	Methylated Spirits produced.	Lost in Manufacture.		Total Accounted for
Prf galls.	Prf galls.	Prf galls.	Prf galls.	Prf galls.	Prf galls.	p. c.	Prf galls.
212,007·21	37,417·13	.....	249,424·34	247,760·10	1,664·24	0·67	249,421·34

(C)

STATEMENT showing the quantity of Methylated Spirits on hand on April 1, 1912, and March 31, 1913, also quantity brought in, manufactured, sold and otherwise accounted for during the year ended March 31, 1913.

DR.

CR.

Stock on hand April 1, 1912.	Manufactured as per Statement (B) above.	Brought in during the year.	Total to be Accounted for.	Sold.	Used in Methylated Warehouse.	Re-used in manufacture of Methylated Spirits.	Stock on hand March 31, 1912.	Total Accounted for
Prf galls.	Prf galls.	Prf galls.	Prf galls.	Prf galls.	Prf galls.	Prf galls.	Prf galls.	Prf galls.
265·50	247,760·10	.....	247,965·60	244,708·17	.....	.....	3,257·43	247,965·60

APPENDIX B

APPENDIX B.

No. 1. — Details of Excise Expenditures for the Year ending March 31, 1913.

To whom paid.	Servitor.	Deductions for				Amounts paid.	Total amounts paid.
		Superannuation.	Retirement.	Quarantee.	\$ cts.		
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
	<i>Belfast.</i>						
Hier, B.	Salary as Collector for the year.	31 50		7 20	2,661 30		
Standish, J. G.	Special Class Excise-man for the year.	42 00		4 32	2,053 68		
Cook, W. J.	Deputy Collector Class "A" for the year.	49 80	53 31	3 60	1,607 52		
McCoy, Wm.	Special Class Excise-man from April 1 to Nov. 1, 1912. Died Oct. 27, 1912.	18 62	87 48	2 52	912 17		
McPee, A. C.	1st Class Excise-man for the year.		72 48	2 88	1,372 32		
Brown, W. J.	Special Class Excise-man for the year.		62 40	4 32	1,371 18		
Wilson, H. R.	1st Class Excise-man for the year.		54 81	2 88	1,184 64		
Sprague, F. W.	1st " " "		45 00	2 88	1,039 77		
Lally, J. E.	3rd " " "			2 88	852 12		
Trevorton, C. B.	Appointed 3rd Class Trody, Excise-man from July 1 to Dec. 9, 1912, and 3rd Class from Dec. 10, 1912 to Mar. 31, 1913		23 73	1 92	449 34		
	Salaries.....	141 92	399 24	35 40	13,504 04		
	Contingencies.....				2,584 36	16,088 40	
	<i>Braintree.</i>						
O'Donahue, M. J.	Salary as Collector for the year.	39 96		7 20	1,952 76		
Sloan, W.	Deputy Collector Class "A" for the year.		75 00	3 60	1,421 40		
Orr, H. N.	1st Class Excise-man for the year.	49 80		2 88	1,372 32		
Newsome, I.	2nd " " "		59 79	2 88	1,134 78		
Schuler, F. C.	2nd " " "		54 81	2 88	1,039 77		
Dowling, D. J.	3rd " " " from April 1, 1912 to Mar. 1, 1913. Dispensed with.		39 50	2 64	749 18		
Fairley, W.	Deputy Collector Class "B" for the year.		31 66	2 88	598 79		
	Salaries.....	89 76	260 76	24 96	8,269 00		
	Contingencies.....				809 06	9,078 06	
	<i>Gloucester.</i>						
Powell, J. B.	Salary as Collector for the year.			7 20	2,692 80		
Till, T. M.	Deputy Collector Class "A" for the year.	38 40		3 60	1,882 92		
Dawson, W.	Special Class Excise-man for the year.	42 00		4 32	2,053 68		

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Woodward, G. W.	"	Accountant for the year.	7 98	1 06	300 93
Bronfroot, S.	"	1st Class Excise-man for the year.	34 41	4 32	1,686 24
Spence, F. H.	"	1st	28 41	2 88	1,393 68
Bowman, A.	"	1st	28 41	2 88	1,393 68
Egner, A.	"	1st	28 41	2 88	1,393 68
O'Brien, E. C.	"	2nd	24 96	2 88	1,299 08
Altheman, P. J.	"	1st	49 80	3 88	1,372 32
Howie, A.	"	3rd	19 92	2 88	977 16
Goutts, J. J.	"	1st	71 16	2 88	1,350 96
Dillon, J. R.	"	1st	39 85	2 88	1,135 98
Martin, N.	"	1st	61 41	2 88	1,221 42
Thomas, F. W.	"	1st	59 85	2 88	1,135 98
Salaries			302 82	19 32	21,303 51
Contingencies					1,578 02
<i>Hamilton.</i>					
Miller, W. F.	"	Salary as Collector for the year.	96 24	14 40	2,685 60
Cameron, D. M.	"	Special Class Excise-man for the year.		1 32	1,350 96
Baby, W. A. D.	"	"	24 50	1 32	2,071 18
O'Brien, J.	"	Deputy Collector Class "A" for the year.		7 20	1,821 48
Dunbrille, R. W.	"	Accountant for the year.	28 45	1 32	1,349 23
O'Brien, J. F.	"	Special Class Excise-man for the year.	31 92	1 32	1,563 72
Rayhurst, T. H.	"	1st	71 16	2 88	1,350 96
Boyd, J. F. S.	"	1st	49 80	2 88	1,372 32
Amor, W.	"	2nd	24 96	2 88	1,299 08
Cheseldine, J. H.	"	Special	65 28	1 32	1,355 40
Lawlor, J. J.	"	1st	75 00	2 88	1,350 96
Elliott, W. J.	"	1st	71 16	2 88	1,350 96
Kirkpatrick, H. J.	"	1st	29 76	2 88	1,154 88
Bosley, M. C.	"	3rd	62 40	2 88	1,135 98
Balentine, A.	"	2nd	46 74	2 88	885 36
Hiscott, J. O.	"	2nd	54 81	2 88	1,039 77
Blackman, C.	"	Messenger for the year.	18 64	2 88	873 83
Mitchell, J. L.	"	2nd Class Excise-man for the year.	47 07	2 88	757 08
Griffin, P. F.	"	3rd	39 96	2 88	1,039 77
Henderson, H. G. D.	"	3rd	54 81	2 88	828 36
	"	3rd	43 74	2 88	753 35
	"	3rd	38 70	2 88	
Salaries			150 63	80 64	26,229 95
Contingencies					438 77

* Insurance.

APPENDIX B.—No. 1.—Details of Excise Expenditures for the year ending March 31, 1913.—Continued.

To whom paid.	Services.	Deductions for				Amounts paid.	Total amounts paid.
		Super-annuation.	Retirement.	Guarantee.			
		\$	cts.	\$	cts.	\$	cts.
<i>Kingston.</i>							
Grimason, T.	Salary as Collector for the year	33	95			1,658	76
Hanley, A.	Deputy Collector Class "A" for the year	23	00			1,172	40
Lyons, E.	1st Class Excise-man from April 1 to Dec. 31, 1912. Transferred to Wind- sor Jan. 1, 1913.	21	33			1,045	26
O'Donnell, J.	3rd Class Excise-man for the year	19	92			977	16
Faboy, F.	"	11	62			985	46
Hogan, J.	"			49	92	947	16
Montgomery, W. H.	"			59	79	1,134	78
	Salaries	110	83	109	71	7,920	98
	Contingencies					518	95
<i>London.</i>							
Alexander, T.	Salary as Collector for the year					2,692	80
Davis, T. G.	Deputy Collector Class "A" for the year					1,921	32
Thrasher, W. A.	"			* 77	52	1,747	56
	"			96	24		
	"			64	92		
Rose, J. A.	"					1,231	41
Coles, F. H.	Accountant for the year					1,720	68
Wilson, D.	"	27	00			1,320	12
Lee, E.	"	28	44			1,393	68
Webbe, C. E. A.	1st Class Excise-man for the year	28	44			1,303	68
Girard, J.	1st	42	72			1,307	64
Boyle, P.	"	49	80			1,372	32
Foster, H.	"			* 71	76	1,222	08
Webbe, C. E. A.	2nd	24	96			1,222	08
Tracy, J. P.	"	24	96			1,222	08
Talbot, J.	3rd					947	16
Whitehead, J. P.	Deputy Collector Class "B" for the year			49	92	709	68
Fiddes, J.	"			37	44	757	08
Pleasance, W.	"			39	96	911	52
Tyler, J. M.	3rd Class Excise-man for the year			48	03	581	88
Farnworth, F. H.	Stenographer for the year			30	60	53	54
	Appointed 3rd Class Probly. Ex. from March 10 to March 31, 1913.			1	77		
	Salaries	226	32	518	16	22,486	26
	Contingencies					1,984	06
						54	17
						8,430	93
						24,470	32

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Koogh, P. M.	Deputy Collector Class "B" for the year	22 98		3 60	1,123 41
Thomas, R.	1st Class Excise-man for the year	25 44		2 2	1,333 68
Bayard, G. A.	1st " " "	28 44		2 2	1,333 68
Braun, A. F.	1st Class Excise-man from April 1 to June 30, 1912, and Promoted Inspector of Distilleries from July 1, 1912.	12 85	74 16	0 74	354 15
Berry, H. L.	1st Class Excise-man for the year		74 16	2 2	1,276 80
Falconer, J.	3rd " " "	11 62		2 2	985 46
Cahill, J. W.	3rd " " "	19 92		2 2	977 16
Neil, J.	1st " " "		71 16	2 2	1,350 96
Benevent, S.	1st " " "		71 16	2 2	1,350 96
Adam, A. R.	3rd " " "		84 96	2 2	862 20
Love, G. G.	2nd " " "		49 92	2 2	1,134 78
Bergeon, R. J.	3rd " " "		21 96	2 2	874 68
Mooney, G. E.	2nd " " " from April 1 to Aug. 1, 1912. Transferred to Calgary Sept. 1, 1912.		47 40	1 20	420 76
Cunnifford, F. D.	3rd Class Excise-man for the year		22 19	2 2	800 76
Monforton, E. R.	3rd " " "		56 16	2 2	757 98
Niven, T. D.	3rd " " "		39 36	2 2	799 62
Bezant, T. M.	3rd " " "		37 44	2 2	662 16
Lane, F. M.	Accountant Brought from Quebec Sept. 1, 1912 and Special Class from Nov. 1, 1912 to Mar. 31, 1913.		34 92	2 2	875 22
Moynihan, J.	App. 3rd Class Prob. Ex. from Dec. 17, 1912 to Mar. 31, 1913.	17 50		0 23	161 66
Fry, J.	Dec. 1, 1912 to Mar. 31, 1913.		8 70	0 72	189 28
Layons, E.	1st Class Excise-man from Jan. 1 to Mar. 31, 1913. Brought from Kamstok.	7 11	10 00	0 72	348 42
	Salaries	294 25	491 62	8 55	29,181 72
	Contingencies				3,000 54
					32,182 26
Ladelle, L. V.	Salary as Collector from April 1 to Aug. 1, 1912. Services dispensed with Aug. 1, 1912.				
Gamache, J. N.	Deputy Collector Class "B" for the year		56 74	1 32	776 50
Shoelden, J. W.	Special Class Excise-man for the year		43 91	3 60	1,515 78
Normandin, G.	1st Class Excise-man for the year		81 75	2 2	1,765 68
Oliver, H.	3rd " " "		90 00	2 2	1,340 96
Bourgeois, C.	3rd " " "		71 16	2 2	935 28
Garnsey, L. N.	2nd " " "		49 29	0 24	70 22
Richard, J. E. P.	Deputy Collector Class "B" for the year		3 79	2 2	1,039 74
Matville, C. P.	App. Collector at Abolito from Nov. 1912 to Mar. 31, 1913.		34 81	3 00	233 85
Oliver, J. A.	App. Prob. Excise-man from Dec. 1 to Mar. 31, 1913.	15 80	12 48	2 25	773 60
	Salaries		10 00	0 72	189 28
	Contingencies				
Insurance		15 80	144 97	24 69	8,201 04
					4,975 38
					13,206 42

J. 1913.

APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1913—Continued.

To whom paid.	Service.	Deductions for			Amounts paid.	Total amounts paid.	
		Superannuation.	Retirement.	Guarantee			
		\$	cts.	\$	cts.	\$	cts.
	<i>Montreal.</i>						
Caven, W.	Salary as Collector for the year.	45	96			2,259	56
Bernier, J. A.	Deputy Collector Class "A" for the year		87	48		1,655	28
Hudon, M. L. E.	"	61	89			1,784	16
Forest, E. R.	Accountant	30	00			1,402	80
Rox, J. D.	"	34	44			1,686	54
Walsh, D. J.	Special Class Exciseman	39	96			1,955	64
Scullion, W. J.	1st	28	44			1,393	68
Chagnon, C. P.	Deputy Collector Class "B"		60	00		1,132	80
Dumouchel, I.	2nd Class Exciseman	24	96			1,922	08
Courtnay, J. J.	2nd	24	96			1,222	08
Dixon, H. G. S.	2nd	24	96			1,222	08
Andrews, A. A.	2nd	43	68			1,203	36
Codd, R. J. S.	2nd	24	96			1,222	08
Renard, A. H.	Deputy Collector Class "B"	49	80			1,372	32
Desautiers, J. E. A.	1st Class Exciseman		71	16		1,350	96
Laurier, J. L.	2nd		83	22		1,101	42
Miller, E.	3rd		62	40		977	16
Panneton, G. E.	3rd					977	16
Costigan, J. J.	3rd					977	16
Brahant, J. B. G. N.	2nd					1,222	08
Belair, A. P.	3rd					977	16
Mainville, C. P.	3rd Class Exciseman from April 1 to Oct. 31, 1912 and Transferred to Joliette as Collector, Nov. 1, 1913.	11	62			570	01
Davelny, J. P.	3rd Class Exciseman for the year		49	92		947	16
Comte, L. A. A. J.	2nd " from April 1 to Aug. 31, 1913. Suspended from Sept. 1, 1912 and re-instated from Jan. 18 to Mar. 31, 1913	37	32			631	23
Kearney, D. J.	Special Class Exciseman for the year		75	00		1,420	68
Bonsquet, J. G.	1st		56	48		1,294	48
Lambert, J. A.	2nd		71	16		1,184	64
Maranda, N. A.	3rd		62	40		947	16
Harwood, J. O. A.	1st		49	92		1,142	16
Patterson, C. E. A.	Deputy Collector Class "B" for the year		62	40		898	92
			47	40			

Marin, L. H.	"	3rd Class Excise-man	"	49 92	2 88	947 16
McGuire, L. J.	"	1st	"	63 12	2 88	1,197 75
St. Michel, F. X.	"	Deputy Collector Class "B"	"	24 96	3 60	471 36
Lamoureux, J. A.	"	2nd Class Excise-man	"	62 40	2 88	1,184 61
Grovier, J. H.	"	3rd	"	49 92	2 88	947 16
Longtin, H.	"	1st	"	66 93	2 88	1,268 94
Thurber, G.	"	3rd	"	47 94	2 88	969 12
Graveline, D. P.	"	3rd	"	45 00	2 88	852 12
David, T.	"	3rd	"	66 93	2 88	1,268 94
O'Donnell, M. J.	"	1st	"	39 96	2 88	757 68
Milôt, J. F.	"	Messenger	"	62 40	2 88	1,184 61
Lesperance, J. A.	"	1st Class Excise-man	"	54 81	2 88	1,039 77
Gervais, J. A.	"	2nd	"	33 12	2 88	819 00
Robillard, G. A.	"	3rd	"	45 00	2 88	852 12
Bousquet, A.	"	3rd	"	45 00	2 88	852 12
Marin, N. H.	"	Stenographer and Typewriter	"	23 07	..	439 41
Lefebvre, A.	"	2nd Class Excise-man from April 1 to May 1, 1912. Died April 6, 1912	"	4 16	..	78 93
Boucher, A.	"	Deputy Collector Class "B" from April 16, 1912 to Mar. 31, 1913	"	43 27	3 15	819 89
Mantha, J. A.	"	3rd Class Probationary Excise-man from Oct. 1, 1912 to Mar. 31, 1913	"	15 00	1 14	283 56
Joubert, P. E. C.	"	3rd " from Sept. 28, 1912 and Confirmed as 3rd Class Excise-man from March 1 to Mar. 31, 1913	"	17 91	1 44	338 98
	"	3rd Class Probationary Excise-man from Oct. 29, 1912 to Mar. 31, 1913	"	30 67	1 20	582 35
		Salaries.....	590 59	1,772 91	167 85	53,636 62
		Contingencies.....				11,392 87
<i>Quater.</i>						
Arcand, D.	"	Salary as Collector for the year.....				
Cahill, J. H.	"	Deputy Collector Class "A" from April 1 to Oct. 31, 1912. Superannu-ated Nov. 1, 1912				
Padry, J. H.	"	Deputy Collector Class "A" for the year		124 92	7 20	2,367 84
Laue, T. M.	"	Accountant from April 1 to Aug. 31, 1912. Transferred to Windsor Sept. 1, 1912		80 20	2 10	1,120 77
Coleman, J. J.	"	1st Class Excise-man for the year	12 50		1 20	611 30
LaRue, A.	"	Deputy Collector Class "B" for the year	28 44		2 88	1,393 68
Bourget, O.	"	2nd Class Excise-man for the year.....	41 93		3 60	1,154 41
Beaune, J.	"	3rd	23 88		2 88	1,176 69
Benbun, J. B.	"	3rd	19 92		2 88	977 16
Bergson, E. L.	"	2nd " from April 1 to Dec. 31, 1912, and 1st Class Excise-man from Jan. 1 to Mar. 31, 1913.	34 92		2 88	962 16
Pelletor, N. G.	"	Deputy Collector Class "B" for the year		47 49	2 88	899 61
Filteau, J. R.	"	3rd Class Excise-man for the year		23 31	2 10	441 21
Thunsons, R.	"	Accountant from April 1 to Oct. 31, 1912, and Deputy Collector Class "A" from Nov. 1, 1912, to Mar. 31, 1913		42 48	2 88	804 60
Murray, D.	"	1st Class Excise-man from April 1, 1912, to Feb. 28, 1913, and Special Class from Mar. 1 to Mar. 31, 1913		75 59	4 77	1,432 10
Rouleau, C. E.	"	3rd Class Excise-man for the year	28 73		3 00	1,407 85
*Tusnacco,	"			46 92	2 88	890 16

64,939 49

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		<i>Sheshbrook</i>					
Simpson, A. F.	Salary as Collector for the year.	42 00	7 20	2,070 80			
Quinn, J. D.	Special Class Excise-man for the year.	31 92	4 32	1,363 72			
Charter, E.	Deputy Collector Class "A" for the year.		3 60	1,445 16			
Bowen, F. C.	3rd Class Excise-man for the year.		2 88	947 16			
De Grossebois, C. B.	2nd "		2 88	1,069 72			
Rousseau, E. H.	Deputy Collector Class "B"		3 60	835 56			
	Salaries.	73 92	24 48	7,882 17			8,704 09
	Contingencies.			821 92			
<i>Thorn Rivers</i>							
Hebert, C. D.	Salary as Collector for the year.	31 92	3 60	1,594 44			
Duplessis, C. Z.	Deputy Collector Class "B" for the year.	19 92	3 60	976 44			
Anger, L. H.	3rd Class Excise-man for the year.		2 88	965 28			
Dontigny, H.	Deputy Collector Class "B" for the year.		1 80	117 00			
	Salaries.	51 84	11 88	3,593 16			4,604 01
	Contingencies.			1,410 88			
<i>St. John, N.B.</i>							
Belyea, T. H.	Salary as Collector for the year.	39 96	7 20	1,952 76			
Clark, J. A.	Deputy Collector Class "A" for the year.	30 00	3 60	1,406 40			
McCloskey, J. R.	Special Class Excise-man from April 1, 1912, to March 1, 1913. Died February 15, 1913.						
Fitzpatrick, W. J.	1st Class Excise-man for the year.	29 26	3 96	1,433 44			
Goldart, O. A.	"	28 44	2 88	1,393 68			
Feagson, J. C.	Special "	31 92	4 32	1,563 72			
McGowan, J.	1st "	28 44	2 88	1,393 68			
Dwyer, D. T.	1st "		2 88	1,221 42			
Casey, F. J.	Deputy Collector Class "B" for the year.		3 60	186 36			
Farnoy, R. C.	2nd Class Excise-man		54 81	1,039 72			
	3rd "		54 81	1,039 72			
	Salaries.	188 02	37 08	12,690 97			13,376 99
	Contingencies.			686 02			
<i>Halifax</i>							
Grant, H. H.	Salary as Collector for the year.	45 96	7 20	2,246 76			
King, R. M.	Deputy Collector Class "A" for the year.	33 96	3 60	1,662 36			
James, F. C.	Accountant	28 44	4 32	1,392 24			
Carroll, D.	1st Class Excise-man	16 59	2 88	1,405 53			
Bethon, C. W.	1st "	28 44	2 88	1,393 68			
Hobby, H. H.	1st "	28 44	2 88	1,393 68			
Gorman, A. M.	1st "	28 44	2 88	1,393 68			
Pomplun, P.	3rd "	19 92	2 88	977 16			
Munro, H. D.	3rd "	19 92	2 88	977 16			
Waddell, S. J.	Deputy Collector Class "B"		3 60	123 96			
	Salaries.	250 11	36 00	13,296 21			13,725 99
	Contingencies.			259 78			

* Insurance.

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APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1913—*Continued.*

To whom paid.	Service.	Deductions for			Amounts paid.	Total amounts paid.
		Superannuation.	Retirement.	Gratuities.		
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
<i>DISTRICT INSPECTORS.</i>						
<i>Ontario.</i>						
Dingman, N. J.	Salary for the year.			5 25	2,794 75	
	Contingencies				524 60	
Evans, G. T.	Salary from Feb. 21 to March 31, 1913.	3 52		75	171 91	3,319 35
Stratton, W. C.	Salary from April 1 to Nov. 1, 1912.					171 91
	Died Oct. 17, 1912.			5 25	1,628 06	
	Contingencies				195 14	
Gow, J. E.	Salary for the year.	14 49		9 00	2,171 49	1,823 20
	Contingencies				687 49	2,858 68
<i>Quebec.</i>						
Toupin, J. A.	Salary for the year.	56 00		9 00	2,735 00	
	Contingencies				272 15	3,007 15
Dumontier, J. A.	Salary for the year.		125 00	9 00	2,336 00	
	Contingencies				395 54	2,731 54
<i>New Brunswick.</i>						
Burke, T.	Salary for the year.	56 00		8 25	2,737 75	
	Contingencies				96 80	2,832 55
<i>Manitoba.</i>						
Barrett, J. K.	Salary for the year.			9 00	2,791 00	
	Contingencies				1,496 75	4,287 75
<i>Calgary.</i>						
Sancier, F. X.	Salary from June 1, 1912 to March 31, 1913.	33 30		7 50	1,625 80	
	Contingencies				1,154 40	2,779 90
<i>British Columbia.</i>						
Miller, J. E.	Salary for the year.	56 00		9 00	2,735 00	
	Contingencies				1,754 40	4,489 40
<i>Inspector of Tobacco Factories.</i>						
Lawlor, H.	Salary for the year.	62 00			3,038 00	
	Contingencies				1,031 84	4,069 84
<i>Inspector of Distilleries.</i>						
Brain, A. E.	Salary from July 4, 1912 to March 31, 1913.	62 32			1,718 32	
	Contingencies				618 97	2,367 29
<i>Inspector of Bonded Factories.</i>						
Stratton, W. C.	Salary for the year.				175 00	
	Contingencies				39 30	214 30
<i>Inspector of Malt Houses and Breweries.</i>						
Barrett, J. K.	Salary for the year.				300 00	
	Contingencies				1,216 50	1,516 50

4 GEORGE V., A. 1914

APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1913—*Continued.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	<i>Excise Contingencies.</i>	\$ cts.	\$ cts.
American Bank Note Co.	To pay for stamps and labels supplied.....	119,676 68	
British American Bank Note Co.	To pay for bottling labels supplied.....	13,821 50	
Pritchard & Andrews Co. Ltd. The.	Pads, rollers, daters, stamps and general repairs.....	265 40	
Carson, Hugh	Trunks and repairs.....	82 25	
Collector of Customs.	Duty paid on imported goods.....	36 55	
Thornton & Truman	Making keys and general repairs.....	84 70	
Burrows Stewart Milne Co., Ltd.	Repairing tobacco scale.....	2 65	
Oertling, L.	Repairing, gilding and verifying hydrometers.....	484 52	
Lymans, Ltd.	Four dozen burners.....	28 80	
Delfosse, E. H.	Extra services from Oct. 19 to Nov. 19, 1912.....	43 85	
Renaud, G.	For staying steel plates.....	5 00	
Bourne, J. B.	" " " ".....	5 00	
Burnside, W.	12 weights for balances.....	3 60	
McKinley & Northwood.	24 tobacco ovens and one large tray.....	355 00	
Pinhey & Co.	Brokerage on customs entries.....	1 00	
Scales, Mrs. C.	Cleaning storerooms, &c for the year.....	313 00	
Canadian Express Co.	Express charges.....	0 91	
Dominion Express Co.	" " " ".....	5 92	
Himsworth, W.	" " cartage, &c.....	148 06	
Laframboise, L.	Technical translation.....	9 73	
	Total		135,374 12
	<i>Law Costs.</i>		
Grenier, A. W.	Law costs in <i>re</i> Rex <i>vs</i> Geo. Viens.....	\$ 20 00	
" "	" " " ".....	40 00	
" "	" " G. L. J. Tremblay.....	35 00	
" "	" " Paul Sauriol.....	29 60	
		124 60	
Abbott, J. L. G.	" " Kong Fong.....	10 00	
" "	" " " ".....	10 00	
" "	" " " ".....	10 00	
O'Connor, Isbister & Martin.	" " H. Cohen.....		30 00
Baird, W. J.	" " Tai Dock.....	10 00	
" "	" " Joe Kim.....	10 00	
" "	" " Wah Kee.....	10 00	
		30 00	
" "	" " C. F. Cligton.....	10 00	
" "	" " " ".....	20 00	
		30 00	
Nantel & Gallagher.	" " D. Wolfe.....	45 20	
	Total amount law costs.....		422 80

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APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1913.—Continued.

To whom paid.	Service.	Amounts paid.	Total amounts paid.
<i>Provisional Allowances paid during the year.</i>			
		\$ cts.	\$ cts.
Gosnell, T. S.	To pay Forsyth, D. F.	124 92	
Winnipeg.	" Hammond, T. W.	124 92	
	" Earl, R. W.	124 92	
	" Verner, T. H.	124 92	
	" Sparling, J. W.	124 92	
	" Morris, T. H.	150 00	
	" Nichol, F. A.	150 00	
	" Currie, W. W.	150 00	
	" Ivey, W. J.	150 00	
	" Greig, W. G.	150 00	
	" Barrett, J. P.	150 00	
	" Levesque, J. T.	103 22	
	" Davis, T. J.	150 00	
	" Ashton, H.	150 00	
	" Fagan, P. J.	150 00	
	" Vinelburg, D.	150 00	
	" Johnson, J. D.	150 00	
	" Cole, A.	99 96	
	" Long, W. H.	99 96	
	" McArthur, G. H.	99 96	
	" Lariviere, A. C.	99 96	
	" McNiven, J. D.	50 00	
Fletcher, R. W.	" Belanger, A.	37 50	
Calgary.	" Fonear, H.	50 00	
	" McKenty, J.	50 00	
	" Gray, W. B.	50 00	
	" Sobey, R. E.	50 00	
	" Schofield, J. H.	45 87	
	" Libbey, J. J.	68 75	
	" Walker, J. H.	75 00	
	" Saucier, X.	100 00	
	" Fletcher, R. W.	100 00	
	" Withenshaw, E.	41 64	
	" Wood, C. T.	125 00	
	" Bruce, G. B.	100 00	
	" Fuller, H.	150 00	
	" Dalgetty, J.	150 00	
	" Davies, W. E.	150 00	
	" Battrum, E. D.	95 41	
	" Moomoy, G. B.	71 52	
	" Richardson, Wm.	83 33	
Conklin, W. M.	" Davis, D. R.	41 60	
Moose Jaw.	" McGowan, W. J. H.	50 00	
	" Edmanson, R. W.	50 00	
	" Panton, A. M.	75 00	
	" Jamieson, S. B.	83 30	
	" Conklin, W. M.	100 00	
	" Ross, H. E.	125 00	
	" Lowe, W. C.	150 00	
	" Pitman, C.	16 20	
	" Goudie, D. I.	150 00	
	" MacGregor, D. N.	115 05	
Parkinson, E. B.	" Armstrong, F.	4 92	
Vancouver.	" Macdonald, G.	150 00	
	" Simpson, G.	150 00	
	" Morgan, E.	150 00	
	" Sutherland, W.	150 00	
	" Gibson, J. F.	150 00	
	" Carmichael, D.	150 00	
	" Gray, R. S.	124 92	
	" Scanlan, T. J.	124 92	

4 GEORGE V., A. 1914

APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1913.—*Continued.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	<i>Provisional Allowance paid during the year.</i>	\$ cts.	\$ cts.
Parkinson, E. B	Pay to Keay, W. S.	124 92	
Vancouver.	" Chilver, F. W.	124 92	
	" Wolfenden, W.	124 92	
	" Thorburn, J.	124 92	
	" Deeley, F.	124 92	
	" Parkinson, E. B.	99 96	
	" Power, J. F.	99 96	
	" Allen, G. A.	99 96	
	" Howell, T.	75 00	
	" Grigor, R. W.	75 00	
	" Atkins, B. R.	75 00	
	" Delahay, W.	50 04	
	" Leishman, A.	50 04	
	" Bailey, E. R.	45 12	
	" Jephson, J.	56 25	
O'Sullivan, D	" Clements, R. S.	150 00	
Victoria.	" Hall, F. J.	25 00	
	" Johnson, Geo.	150 00	
	" Huggett, A. P.	125 00	
	" Ridgman, A. H.	125 00	
	" Shaw, John.	125 00	
	" O'Sullivan, D.	100 00	
	" Jones, R.	160 00	
	" Robinson, W.	125 00	
	Total.		8,908 54

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APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1913—Continued.

To whom paid.	Place of Residence.	Service.	Amounts paid	Total amounts paid.
		<i>Commission to Customs officers.</i>	<i>8 cts.</i>	<i>8 cts.</i>
Brimacombe, W. A.	Vermilion, Alta.	From April 1, 1911 to March 31, 1912	121 42	
Munro, H. P.	Taber, Alta.	" " "	146 40	
White, H.	Crambrook, B.C.	" " "	346 40	
Glass, J. J.	Lindsay, Ont.	From Feb. 12 to March 31, 1912 and from April 1, 1912 to March 31, 1913	162 40	
McDonald, B. R.	Prince Rupert, B.C.	From April 1, 1911 to March 31, 1912 and from April 1, 1912 to Nov. 16, 1912	204 00	
Polley, W. H.	Trenton, Ont.	From April 1, 1912 to March 31, 1913	305 40	
Porter, N.	Simcoe, Ont.	" " "	345 40	
Allison, J. B.	Napanee, Ont.	" " "	1 68	
Marsh, R. J. F.	Fort Frances, Ont.	" " "	146 40	
Jackson, H. B.	Rainy River, Ont.	" " "	546 40	
Blair, Alex.	Chicoutimi, Que.	" " "	146 49	
Kavanagh, A. J.	Gaspé, Que.	" " "	95 52	
Ratchford, C. E.	Amherst, N.S.	" " "	29 50	
Nurub, T.	Rosthern, Sask.	" " "	346 40	
Ball, J. A.	Dauphin, Man.	" " "	246 40	
McMillan, D. N.	Morden, Man.	" " "	246 40	
Gilhuly, R. H.	Selkirk, Man.	" " "	138 96	
Lindsay, H. W.	McVillie, Sask.	From May 1, 1912 to February 28, 1913	225 87	
Porter, E. R.	" "	From March 1 to March 31, 1913	20 53	
Boyd, A.	Antigonish, N.S.	Guarantee from Apr. 1, '12 to Mar. 31, '13	3 60	
Clark, A. J.	Campbell, N.B.	" " "	3 60	
Kirk, J. T.	Sussex, N.B.	" " "	3 60	
McDonald, J. F.	New Glasgow, N.S.	" " "	3 60	
McPherson, J.	North Sydney, N.S.	" " "	3 60	
Park, W. A.	New Castle, N.B.	" " "	3 60	
Ratchford, C. E.	Amherst, N.S.	" " "	3 60	
Watt, G.	Chartham, N.B.	" " "	3 60	
Martel, L.	Thetford Mines, Que.	" " "	3 60	
English, J. J.	Maple Creek, Alta.	" Mar. 15 to "	15	
Gilhuly, R. H.	Selkirk, Man.	" Apr. 1, '12 "	3 60	
Mather, T. J.	Groton, Man.	" June 1, '12 "	3 60	
White, J. J.	Sidney, B.C.	" for 8 months "	2 40	
White, H.	Crambrook, B.C.	" Apr. 1, '12 to Mar. 31, '13	3 60	
Brimacombe, M. A.	Vermilion, Alta.	" " "	3 60	
McMillan, D. N.	Morden, Man.	" " "	3 60	
Munro, H. P.	Taber, Alta.	" " "	3 60	
Nurub, T.	Rosthern, Sask.	" " "	3 60	
Ball, J. A.	Dauphin, Man.	" " "	3 60	
Brown, G.	Meaford, Ont.	" " "	3 60	
Daly, J. A.	Campbellford, Ont.	" " "	3 60	
Jackson, H. B.	Rainy River, Ont.	" " "	3 60	
Marsh, R. J. F.	Fort Frances, Ont.	" " "	3 60	
MacPherson, M. J.	Kincardine, Ont.	" " "	3 60	
Porter, N.	Simcoe, Ont.	" " "	3 60	
Tyson, A. M.	Warton, Ont.	" " "	3 60	
Glass, J. J.	Lindsay, Ont.	" " "	3 60	
Allison, J. B.	Napanee, Ont.	" " "	3 60	
Britton, W. H.	Gananoque, Ont.	" " "	3 60	
Ross, W. T.	Theton, Ont.	" " "	3 60	
Valleau, A. S.	Deseronto, Ont.	" " "	3 60	
Polley, W. S.	Trenton, Ont.	" " "	3 60	
Blair, A.	Chicoutimi, Que.	" " "	3 60	
Kavanagh, A. J.	Gaspé, Que.	" " "	3 60	
Collier, J. H.	Medicine Hat, Alta.	" for 14 months "	0 45	
Sowell, R. A.	" "	" 10 " "	3 15	
McDonald, B. R.	Prince Rupert, B.C.	" 7 " "	2 40	
Cuttingham, W. H.	Red Deer, Alta.	" 8 " "	2 64	

4 GEORGE V., A. 1914

APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1913—*Continued.*

To whom paid.	Place of Residence.	Service.	Amounts paid.	Total amounts paid.
			\$ cts.	\$ cts.
Porter, A. R.....	Melville, Sask	Guarantee for 1 month.....	0 30	
Conway, D. T.....	Ladysmith, B.C.....	" " 4 "	1 20	
Beauchesne, P. C.....	Paspébiac, Que.....	" " 10 "	3 00	
Lindsay, H. W.....	Melville, Sask	Refunded to him.....	3 30	
		Total amount of Commission...	3,886 87

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APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1913—Continued.

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	<i>Duty-paid.</i>	\$ cts.	\$ cts.
Bouteiller, G. A.	From April 1, 1912, to March 31, 1913.	300 00	
Falconer, J. C.	"	150 00	
Adam, A. R.	"	150 00	
Thomas, R.	"	150 00	
Cumminford, F. D.	"	150 00	
Keog, P. M.	"	150 00	
Bayard, G. A.	"	150 00	
Niven, T. D.	"	150 00	
Bergeron, R. J.	"	150 00	
Cahill, J. W.	"	150 00	
Gerald, Chrs.	"	300 00	
Jamieson, R. C.	"	300 00	
Hurst, L. B.	"	200 00	
Doyle, E. J.	"	150 00	
O'Leary, T. J.	"	150 00	
Walsh, W. H.	"	150 00	
Eakins, G. G.	"	150 00	
Shorey, A. B.	"	150 00	
Abbott, H. F.	"	150 00	
Young, J. J.	"	150 00	
Jones, A.	"	150 00	
Helliwell, H. N.	"	122 98	
Dawson, W.	"	300 00	
Martin, N.	"	200 00	
Thomas, F. W.	"	150 00	
Egener, A.	"	150 00	
Howie, Alex.	"	150 00	
Baby, W. A. D.	"	250 00	
O'Brien, J. F.	"	200 00	
Boyd, J. F.	"	150 00	
Elliott, W. J.	"	150 00	
Wilson, H. R.	"	150 00	
Lalley, J. E.	"	150 00	
Sprague, F. W.	"	150 00	
Gerald, W. H.	"	300 00	
McPherson, E. A.	"	200 00	
Byrne, W. P.	"	150 00	
Bissell, C. H.	"	150 00	
Granton, C.	"	107 58	
Brown, W. J.	"	208 33	
Murray, D.	"	300 00	
Bouchard, Jos.	"	150 00	
Cote, A. R.	"	150 00	
Walsh, D. J.	"	300 00	
Milot, J. F.	"	150 00	
Davidson, J.	"	150 00	
Macdonald, A. B.	"	250 00	
Bernard, N. J. D.	"	200 00	
Chaput, N. J.	"	109 67	
Mason, F.	"	200 00	
Allen, G. A.	"	300 00	
Chilver, F. W.	"	200 00	
Guay, R. S.	"	150 00	
Sutherland, W.	"	150 00	
Snowdon, J. W.	"	300 00	
Normandin, G.	"	200 00	
Olivier, H.	"	150 00	
Denis, J. L.	"	150 00	
Tellier, J. O.	"	112 23	
Olivier, J. A.	"	112 10	
Desaulniers, J. E. A.	"	200 00	
Amor, W.	"	200 00	
Coleman, J. J.	"	200 00	
Berry, H. L.	"	200 00	

APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1913—*Continued.*

To whom paid.	Service.	Amounts paid,	Total amounts paid.
	<i>Duty-pay—Continued.</i>	₹ cts.	₹ cts.
Morforton, E.	From April 1, 1912, to March 31, 1913	100 00	
Corriveau, O.	" " " "	100 00	
Poitras, W.	" " " "	100 00	
Quinn, J. D.	" " " "	150 00	
Morris, T. H.	" " " "	100 00	
Davis, T. J.	" " " "	100 00	
Fairley, W.	" " " "	100 00	
Gauvin, E.	" " " "	100 00	
Bram, A. F.	From April 1 to July 3, 1912.	51 61	
Lane, T. M.	" " 1, 1912, to March 31, 1913.	186 83	
Brennan, J.	" " 1 to September 30, 1912, and from Oct. 1 to Dec. 12, 1912	104 84	
Mooney, G. B.	" April 1 to August 31, 1912	62 50	
Hall, W. H.	" " 22 to September 12, 1912	39 72	
Mather, A. P.	" " " "	39 72	
Woodward, G. W.	" " 1 to April 30, 1912.	12 50	
Feik, L.	" May, 1912, to March 31, 1913.	91 67	
Staudish, J. G.	" April 1 to Dec. 17, 1912, and from Jan. 18 to Mar. 31, 1913.	275 60	
McFee, A. C.	" April 1 to Dec. 3, 1912, and from Jan. 15 to Mar. 31, 1913	133 07	
Kecler, G. S.	" April 1, 1912, to January 2, 1913.	113 31	
Bergeron, E. L.	" April 1 to November, 1912	100 00	
Goodman, A. W.	" " " "	100 00	
Gariépy, L. N.	" " 1 to April 2, 1912, and from June 2, 1912, to March 31, 1913.	125 00	
Millier, E.	" April 1 to July 7, August 5 to Nov. 24, 1912, and from Dec. 12, to March 31, 1913.	131 77	
Parent, E.	" July 8 to August 4, 1912	11 29	
Evans, G. T.	" April 1, 1912, to February 20, 1913	178 57	
Young, R. E.	" " 1 to August 4, 1912, and from August 26, 1912, to March 31, 1913.	188 71	
Hicks, W. H.	" August 5 to August 25, 1912	11 29	
Johnson, J. J.	" April 1, 1912, to February 11, 1913.	86 61	
Bousquet, J. O.	From April 1 to August 11, 1912 and from Sept. 1, 1912, to March 31, 1913.	94 62	
Hughes M.	From August 12 to August 25, 1912.	3 77	
Harwood, J. O.	" " 26 to August 31, 1912.	1 61	
Marin, L. H.	" April 1 to July 7, 1912, and from July 29, 1912, to March 31, 1913	94 36	
Panneton, G. E.	" July 8 to July 28, 1912	5 64	
Moynahan, John	" December 12, 1912 to March 31, 1913	28 76	
Lyons, E.	" " 28, 1912 to March 31, 1913.	26 07	
Blyth, Alex.	" " 9 to January 31, 1912, and from Feb. 12 to March 31, 1913.	35 16	
McNally, E.	" January 12 to March 31, 1913.	17 73	
Quimet, O.	" November 25 to December 11, 1912.	6 94	
Graham, A. L.	" February 21 to March 31, 1913.	21 43	
	Total duty-pay		14,852 99

SESSIONAL PAPER No. 12

APPENDIX B.—No. 1—Details of Excise Expenditures for the Year ended March 31, 1913—*Concluded.*

To whom paid	Service	Amounts paid.	Totals amounts paid.
		\$ cts.	\$ cts.
	Total		705,104 30
Adm.	H. H. Grant, Special Agent		299 00
Adm.	Printing	5,368 25	
	Stationery	2,492 26	
			10 860 51
	Grand total		716,161 00
Adm.	Balance of by Inspector, 1912	343 98	
	to " " 1913	1,273 30	
			1,617 28
	LESS Balances due by Inspector, 1912	343 98	717 782 18
	" " to " " 1913	49 08	
			393 06
	Actual disbursement, less supervision, insurance, retirement, guarantee and other fees, agreeing with Statement No. 1, page 42		717,389 12

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMS WORTH,
Deputy Master.

4 GEORGE V., A. 1914

APPENDIX B.—No. 2.—Distribution of Seizures for the Year ended March 31, 1913.

Divisions.	To whom paid.	Service.	Amounts paid.		Total amounts paid.						
			\$	cts.	\$	cts.					
Montreal.	Caven, W.	To pay informer $\frac{1}{2}$ penalty on seizure No.	1226	100	00						
			"	1230	50		00				
			"	1231	5		00				
			"	1238	25		00				
			"	1239	12		50				
			"	1242	25		00				
	Compte, Jos. A.	For his share of seizure	"	1172	0	90	217 50				
			"	1173	2	70					
			"	1196	1	50					
	Brabant, G. N.		"	1172	0	90	5 10				
			"	1173	2	70					
			"	1193	3	50					
			"	1196	1	50					
			"	1216	3	20					
			"	1223	50	10					
			"	1226	1	61					
			"	1226	33	33					
			"	1230	123	50					
			"	1231	2	45					
			"	1232	4	22					
			"	1233	12	80					
			"	1234	12	35					
			"	1235	13	75					
			"	1238	12	50					
			"	1239	5	62					
			"	1239	1	15					
			"	1240	25	00					
	"	1241	4	62							
	"	1241	0	38							
	Normandin, G.		"	1200			315 18				
			"	1200			35 00				
	Larue, T. M.		"	1211	102	00	35 00				
	Lesperance, J. A.		"	1231	2	45	115 46				
			"	1232	4	22					
			"	1239	5	63					
			"	1239	1	16					
			"	1226	1	62					
			"	1226	33	33					
	Bernier, J. A.		"	1226	1	62	34 95				
			"	1226	33	33					
	Costigan, J. J.		"	1226	1	62	34 96				
			"	1226	33	34					
	Robillard, G. A.		"	1240	25	00	30 00				
			"	1241	4	63					
			"	1241	0	37					
Caven, W.		"	1238			12 50					
O'Donnell, M. G.		"	1235			13 75					
Quebec.	Arcand, D.	To pay informer $\frac{1}{2}$ penalty in seizure No.	621	5	00	135 00					
			"	623	12		50				
			"	623	50		00				
			"	625	12		50				
			"	626	12		50				
			"	627	12		50				
			"	628	12		50				
			"	629	5		00				
			"	631	12		50				
			Bouliane, G.	For his share of seizure	"		621			3 50	
					"		623	24	05		
					"		627	6	25		
					"		623				30 30
					"		627					24 05
	Trudel, E.				"	627			6 25		

APPENDIX B.—No. 2.—Distribution of Seizures—*Concluded.*

RECAPITULATION.

Quebec.....	\$1,145 25
New Brunswick.....	285 90
Halifax.....	85 40
Manitoba.....	139 65
Alberta.....	50 00
British Columbia.....	379 00
	<hr/>
	\$2,085 20

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister

APPENDIX B.—Continued.

No. 4.—DETAILS of Adulteration of Food Expenditure for the Year ended March 31, 1913—Continued.

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	ADULTERATION OF FOOD.	\$ cts.	\$ cts.
	<i>Contingencies.</i>		
McGill A., for the Ottawa Laboratory.....	Travelling expenses.....	341 25	
	Special assistance.....	725 50	
	Sundries for laboratory.....	2,880 21	
Hogan, James.....	Travelling expenses and purchases of samples, &c.....	158 33	
Talbot, J.....	" ".....	131 33	
Rickey, J. A.....	" ".....	253 29	
Kidd, T.....	" ".....	19 49	
Dager, H. J.....	" ".....	215 85	
Costigan, J. J.....	" ".....	431 65	
Beland, P. X.....	" ".....	373 97	
Rouleau, J. C.....	" ".....	248 06	
Ferguson, J. C.....	" ".....	209 30	
Weeks, W. A.....	" ".....	85 70	
Larivière, A. C.....	" ".....	168 05	
Fletcher, R. W.....	" ".....	45 05	
Power, J. F.....	" ".....	99 30	
O'Sullivan, D.....	" ".....	82 55	
Parker, T.....	" ".....	187 90	
Pelletier, A.....	" ".....	165 43	
Lavallée, V. P.....	" ".....	56 42	
Waugh, R. J.....	" ".....	315 65	
			7,197 28
Valade, Dr. F. X.....	Allowance under Act for retaining fees.....	200 00	
	" rent.....	100 00	
	" material used in analyses.....	100 00	
			400 00
Fagan, Dr. C. J.....	" retaining fees.....	200 00	
	" rent.....	100 00	
	" material used in analyses.....	100 00	
			400 00
Bowman, M.....	" retaining fees.....	200 00	
	" material used in analyses.....	100 00	
			300 00
Donald, Dr. J. T.....	" retaining fees.....	200 00	
	" rent.....	100 00	
	" material used in analyses.....	100 00	
	Retaining fees as member of Food Standards of laboratory.....	200 00	
			600 00
Ellis, Dr. W. H.....	" " ".....	200 00	
Emil Greiner Co.....	Supplies to laboratory.....	132 15	
Lymans Ltd.....	Supplies and apparatus for laboratory.....	906 84	
Allcott, J. A. L.....	For installation of motor, &c., at laboratory.....	731 43	
Andrews, A. J.....	Law costs in <i>re</i> Rex vs. G. T. Grant.....	10 00	
	" " C. H. Hoffman.....	10 00	
	" " Dingle & Stewart.....	10 00	
McGill, A.....	Expenses incurred in connection with Congress at Washington.....	195 20	
Lussier & Guimond.....	Law costs.....	10 00	
McKenzie, J. J., Prof.....	Expenses <i>re</i> Board of Examiners.....	188 30	
Choquette, Rev. Father.....	" ".....	104 00	
Gidwood, Dr. G. P.....	" ".....	87 50	
Lawrence Dairy Supply Co., The.....	1 bottle Babcock tester and 48 test bottles.....	45 00	
Gooderham & Worts, Ltd	Alcohol for laboratory.....	34 85	
American Platinum Works.....	296.15 grains in 12 plate dishes.....	504 C9	
Guimond, Mrs.....	For cleaning laboratory, &c.....	40 00	
Dessaint, Mrs.....	" ".....	121 00	
Chenier, Miss.....	" ".....	57 75	
Turpin, Mrs.....	" ".....	84 00	

SESSIONAL PAPER No. 12

APPENDIX B.—Continued.

No. 4.—DETAILS of Adulteration of Food Expenditures for the Year ended March 31, 1913—Continued.

To whom paid.	Service.	Amounts paid.	Total amounts paid.
ADULTERATION OF FOOD.		\$ cts.	\$ cts.
<i>Contingencies.</i>			
Collectors of Customs	Duty on imported goods		116 44
Pritchard & Andrews Ltd	Seal and general repairs		7 05
Baldwin, E. H. & Co.	Repairing motor, &c., at laboratory		68 20
Finer & Amend	General supplies for laboratory		254 95
Davidson, N. F.	Law costs, <i>Re. v. A. Finley and N. E. Fenwick</i>		100 00
Skinner, J. S. & Son	Supplies, &c., for laboratory		32 19
Beaver Flint Glass Co., Ltd., The	20 gros. vials		30 00
Topley Co., The	Apparatus for laboratory		1,246 45
McLennan, J. R.	Installing a steam boiler in laboratory		915 00
Dawsley, A. H.	Furnitures for laboratory		107 25
Strohlein & Co.	1 white colorimeter		36 00
Lafleur, E.	Cleaning laboratory		19 50
Pinhey & Co.	For passing customs entries		2 50
Canadian Express Co.	Express charges		3 35
Hinsworth, W.	Paid on account of express charges, &c.		49 10
Laframboise, L.	Special translation		8 28
	Add—Printing		18,410 38
	Stationery	3,284 24	
		262 64	
			3,546 88
	Actual disbursements (less superannuation and guarantee fund) agreeing with statement No. 6, page 15		21,957 26

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

APPENDIX B.—Continued.

No. 5.—DETAILS of Departmental Expenditures for the Year ended March 31, 1913—Continued.

Names.	Rank.		Period.	Deductions for			Amounts paid.	Total Amounts paid.
	Division.	Sub-Division.		Superannuation.	Retirement.	Insurance.		
Nantel, Hon. W. B.	Minister		For the year				7,000 00	
Gerald, W. J.	Dep. Minister		From April 1, to Sept. 30, 1912				2,500 00	
Hinsworth, W.	Secretary and Acting Dep. Minister	1 A	For the year				3,850 00	
ampeau, F. R. E.	Chief Account.	1 A	From April 1, to Nov. 30, 1912				2,000 00	
Valin, J. E.	"	1 A	For the year				2,650 00	
Shaw, J. F.	" Statistical Clerk	1 B	"				2,600 00	
Doyon, J. A.	Clerk	1 B	"	52 00			2,548 00	
Westman, T.	"	1 B	"	46 60			2,254 00	
Laflamme, J. L. K.	"	1 B	"		106 25		2,018 75	
"	Private Secretary		"				600 00	
Quain, R.	Ass. Account	1 B	"	63 00		61 92	1,975 08	
Taylor, G. W.	Ass. Secretary	1 B	"	44 00			2,156 00	
Fowler, G.	Clerk	1 B	"				2,100 00	
Brodleur, P. E. S.	"	2 A	"		85 00		1,615 00	
Hughes, P. A.	"	2 A	"	57 75		55 92	1,536 33	
McCullough, A.	"	2 A	"	53 00			1,617 00	
Halliday, W. A.	"	2 A	"	56 00			1,544 00	
Roy, L. G.	"	2 A	"	56 00			1,544 00	
Chateaufort, G. E.	"	2 B	"		79 38		1,508 12	
Ostiguy, L. R.	"	2 B	"		78 13		1,484 37	
Gervais, J. H.	"	2 B	"		78 13		1,484 37	
Leaoyd, D.	"	2 B	"		40 00		760 00	
Lawless, E. M.	"	3 A	"		60 00		1,140 00	
Hagerty, B.	"	3 A	"		60 00		1,140 00	
Doyle, E. F.	"	3 A	"		60 00		1,140 00	
Watson, V. M.	"	3 A	"		60 00		1,140 00	
Goodhue, M. L. E. B.	"	3 A	"		60 00		1,140 00	
Trumpour, G.	"	3 A	"		60 00		1,140 00	
Furloug, C. J.	"	3 A	"		59 38		1,128 12	
Beard, M. H.	"	3 A	"		59 38		1,128 12	
Griffith, M. L.	"	3 A	"		58 13		1,104 37	
Yetts, R. P.	"	3 A	"	35 00			965 00	
Lewis, H. B.	"	3 A	"		51 88		985 62	
Teevens, L. P.	"	3 A	"		50 00	43 34	966 66	
Allen, A. T.	"	3 A	"		50 00		950 00	
Lyon, Anna V.	"	3 A	"		51 88		985 62	
Robert A.	"	3 A	"		47 50		902 50	
Evans, C. J.	"	3 A	"		60 00	41 04	1,098 96	
Cantin, J. W. Z.	"	3 A	"		47 50	35 36	867 14	
Gosselin, B.	"	3 B	July 1, 1912 to March 31, 1913				391 87	
Bourgeois, E.	Messenger		For the year		20 63		760 00	
Roy, L.	"		"		40 00		760 00	
Desroches, L.	"		From Aug. 1, 1912 to Mar. 31, 1913		20 00		380 00	

SESSIONAL PAPER No. 12

APPENDIX B.—Continued.

No. 5.—DETAILS of Departmental Expenditures for the Year ended March 31, 1913—Continued.

Names.	Rank.	Period.	Deductions for			Amounts paid.	Total Amounts paid.	
			Superannuation.	Retirement.	Insurance.			
	Division.	Sub-division.	\$	cts.	\$	cts.	\$	cts.
McGill, A. Chief Analyst.	1	A	For the year	66 00			3,234 00	
Lemoine, A. Analyst.	2	A	"		82 50		1,567 50	
Yalm, J. A. G. " "	2	A	"		82 50	24 16	1,543 34	
Forster, E. L. C. " "	2	A	"		82 50		1,567 50	
Forward, C. C. " "	2	A	"		82 50		1,567 50	
Kitto, W. V. " "	2	A	"		79 25		1,448 75	
Rickey, J. A. Clerk.	3	A	"		60 00	75 16	1,064 31	
Belfisle, E. " "	3	A	From April 1 to July 31, 1912		20 00	11 68	368 32	
Wright, S. E. " "	3	A	For the year	60 00			1,140 00	
Ladouceur, J. " "	3	A	"		58 75	75 42	1,041 13	
Leckie, T. L. Messenger.			"		26 25		498 75	
Armstrong, W. Supt. of Met. Spirits manuf. Factory.	2	A	For the year		127 20		1,972 80	
Parent, T. Clerk.	3	A	"		60 00		1,140 00	
Popham, F. H. Ware-house man.			"		40 00		750 00	
Higman, O. Chief of Elect. Engin. and Insp. of Gas.	1	A	"		175 00		2,945 00	
Cole, N. R. Clerk.	3	A	"		56 25		1,068 75	
Mathews, E. D. K.	3	A	"		45 00		855 00	
McKell, M. E. E.	5	B	"		36 25		688 75	
Eyfe, Jas. Chief Insp. of W. and M.	1	A	From April 1 to July 31, 1912		31 68		981 34	
Way, E. O. " "	1	B	For the year		83 13		1,579 37	
Barbeau, L. Clerk.	3	B	"		40 00		750 00	
Burgess, T. H. Carpenter.			"		50 00		950 00	
Chemer, E. Lower Grade.			From July 1, 1912 to Mar. 1913		48 75		856 25	
Totals.				508 75	2,877 08	123 00		96,597 39

APPENDIX B.—Continued.

No. 5.—DETAILS of Departmental Expenditures for the Year ended March 31, 1913.—Continued.

Names.	Services.	Amount paid.		Total amount paid.	
		\$	cts.	\$	cts.
Nantel, Hon. W. B.	Advance on travelling expenses	562	25		
Himsworth, W.	Petty expenses	148	10		
Sweet, R. P.	Salary from April 1 to 11, 1912.	15	27		
Grignon, L. J.	" as extra clerk	83	32		
Barry, E. V.	"	83	32		
Lees, B.	"	83	32		
Chenier, E.	"	124	98		
Cloutier, E.	"	491	59		
Cyr, H.	"	470	76		
Laforce, J. E.	"	600	00		
Armstrong, A. E.	"	13	67		
St. Jacques, Y.	"	198	89		
Berland, E.	"	530	83		
Brasse-Brossard, L.	"	625	53		
Rional, Y.	"	274	36		
Labelle, V.	"	28	22		
G. N. W. Telegraph Co.	Telegrams	94	73		
C. P. R'y.	"	127	24		
Cr. R. G. for King's Printer.	Printing	1,419	29		
"	Parliamentary publications	50	75		
Cr. R. G. for Cont. of Stationery	Stationery and books	1,711	47		
The Bell Telephone	"	76	50		
Thornton & Truman, Ottawa	Repairs to locks and keys.	15	80		
Munn & Co., New York.	Subscription	8	25		
The Labour News, Hamilton	"	1	17		
Saturday Night, Toronto	"	18	00		
Citizen Printing Co., Ottawa	"	1	50		
Catholic Register, Toronto	"	1	90		
Le Ralliement St. Joseph, P. Que.	"	4	00		
Progrès du Golfe, Rimouski	"	3	00		
Intelligencer, Belleville, Ont.	"	6	00		
The Chronicle Printing Co., Quebec, Que.	"	3	00		
The Scout, Ottawa	"	1	00		
Windsor Tribune, Windsor, Ont.	"	2	00		
Freeman, Toronto	"	1	30		
Ottawa Free Press, Ottawa	"	21	60		
Le Progrès du Saguenay	"	4	00		
The Guelph Herald, Guelph	"	4	00		
The Tobacco World, Philadelphia	"	4	34		
The Mail and Empire, Toronto	"	3	00		
Gazette Printing Co., Montreal	"	18	00		
La Presse, Montreal	"	7	00		
Le Devoir	"	9	00		
The Evening Telegram, Toronto	"	3	00		
" Citizen, Ottawa	"	24	00		
The Journal Printing Co., Ottawa	"	14	40		
United Canada	"	1	50		
The News Publishing Co., Toronto	"	4	50		
The Planet, Chatham	"	4	00		
The Herald, Hamilton	"	3	60		
The Spectator	"	3	00		
The Daily Journal, Edmonton	"	3	00		
The Citizen, Vancouver	"	2	00		
The Province, Vancouver	"	3	00		
Saturday Sunset, Vancouver	"	4	00		
Colonist, Victoria	"	10	00		
The Week	"	1	00		
Les Cloches, St. Boniface	"	2	00		
Le Manitoba	"	1	00		

APPENDIX B—Continued.

No. 5.—DETAILS of Departmental Expenditure for the Year ended March 31, 1913—Continued.

Names.	Services.	Amount paid.		Total amount paid.	
		\$	cts.	\$	cts.
Grain Growers' Guide, Winnipeg.	Subscription		2 00		
North-West Review	"		1 00		
The Telegram	"		2 00		
L'Évangéline, Moncton	"		2 00		
Le Moniteur Acadien, Shediac	"		1 00		
The Globe, St. John	"		5 00		
The Bulletin, Bridgewater	"		1 00		
The Herald, Halifax	"		5 00		
The Mail	"		5 00		
The Standard, St. Catharines	"		3 00		
Canadian Mining Journal, Toronto	"		4 00		
The Daily Examiner, Charlottetown	"		2 50		
Gas Journal, Toronto	"		2 00		
Toronto World	"	10 00			
Standard of Empire, Toronto	"		4 00		
Daily Star	"		3 00		
The Express, Woodstock	"		3 00		
L'Action Canadienne, Fraserville	"		1 00		
La Semaine, Grand Mere	"		1 00		
L'Avenir de Jonquière, Jonquière	"		1 00		
L'Étoile du Nord, Joliette	"		0 75		
L'Action, Montreal	"		4 00		
The Herald	"		6 00		
Le Moniteur du Commerce, Montreal	"		2 00		
Le Nationaliste	"		1 00		
La Patrie	"		7 00		
Le Pays	"		2 00		
Revue Franco-Américaine	"		4 00		
Montreal Star	"		9 00		
The Witness	"		6 00		
Le Peuple	"		1 00		
L'Action Sociale, Quebec	"		6 00		
The Chronicle	"		3 00		
L'Événement	"		3 00		
La Nouvelle France	"		3 00		
La Semaine Commerciale, Quebec	"		2 00		
La Verité	"		2 00		
La Tribune, St. Hyacinthe	"		2 00		
Le Bien Public, Trois Rivières	"		1 00		
Le Mineur, Thetford Mines	"		3 00		
L'Écho des Bois Francs, Victoriaville	"		1 00		
Le Journal de Waterloo, Waterloo	"		1 00		
The Globe, Toronto	"		6 00		
American Food Journal, Chicago	"		1 50		
Nostrums and Quackery	"		1 00		
Canada Newspaper, London, Eng.	"		7 00		
Jones, Yarrel & Co.	"		17 03		
Journal of Gas Light	"		6 69		
Bulletin de la Canadienne, Paris, France	"		15 26		
London Free Press, London, Ont.	"		3 00		
Le Patriote, Duke Lake	"		1 00		
La Revue Canadienne, Montreal	"		6 00		
Gas Journal, Hamilton	"		2 00		
The World, Chatham	"		2 00		
Le Canada Français, St. Jean	"		2 00		
La Société de Géographie, Quebec	"		2 00		
	Total		8,237 52		

APPENDIX B--*Continued.*

No. 5.--DETAILS of Departmental Expenditures for the Year ended March 31,
1913--*Concluded.*

Names.	Services.	Amount paid.	Total amount paid.
		\$ cts.	\$ cts.
	Total amount expended.		104,835 51
	ADD - Balance due March 31, 1913.		16 66
			104,852 17
	Less - Balance due April 31, 1912.		16 66
	Actual disbursement agreeing with statement No. 16, page 44.		104,835 51

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

SESSIONAL PAPER No. 12

APPENDIX B—Continued.

No. 6.—DETAILS of Weights and Measures Expenditures for the Year ended March 31, 1913.

To whom paid.	Service.	Deductions for			Amounts paid.	Total amounts paid.	
		Subject amount addition.	Retire- ment.	Char- itable.			
		\$	cts.	\$	cts.	\$	cts.
Johnson, W.	Salary as Inspector from April 1 to Oct. 31, 1912.			2 10	683 90		
Skittery, T.	Asst. Inspector for the year.	14 00		1 80	782 16		
Kyle, R.				1 80	798 12		
Howson, G. H.				1 80	798 12		
Diamond, E. D.	from Jan. 31 to March 31, 1913.			6 80	222 30		
	Salaries	24 00		8 30	3,284 00		
	Contingencies				20 82 06		3,304 86
<i>H</i>							
Sealey, J. C.	Salary as Inspector for the year.			1 00	1,096 12		
Fitzgerald, E. W.	Asst. Inspector for the year.			1 80	998 16		
Wheatley, A. E.				1 80	1,098 12		
Ludman, R. H.				1 80	1,023 15		
Robins, S. W.				1 80	948 12		
Clegg, L.				1 80	848 16		
Brick, J. H.	from Aug. 1, 1912 to March 31, 1913.			1 20	475 46		
	Salaries			11 80	6,727 49		
	Contingencies				2,184 51		8,912 00
<i>K</i>							
Gallagher, T.	Salary as Inspector for the year.			3 00	1,096 32		
Johnston, C. W.	Asst. Inspector from April 1 to Sept. 30, 1912. Transferred to Saskatoon as Inspector on Oct. 1, 1912 to March 31, 1912.			6 90	490 98		
MacLean, C. E.	Asst. Inspector for the year.			1 80	798 20		
	Salaries			6 30	2,193 60		
	Contingencies				615 55		2,809 15
<i>L</i>							
Butler, T. H.	Salary as Inspector from April 1 to July 31, 1912. Services dispensed with.			1 20	465 44		
Coughlin, D.	Asst. Inspector for the year.			1 80	998 16		
Thomas, J. S.				1 80	998 16		
Hughes, R. A.	from April 1 to Aug. 31, 1912. Promoted Inspector from Sept. 1, 1912 to March 31, 1913.			2 85	1,134 05		
Liddle, D.	Asst. Inspector for the year.			1 80	898 20		
	Salaries			9 45	4,494 61		
	Contingencies				3,049 73		7,544 34

APPENDIX B—Continued.

No. 6.—DETAILS of Weights and Measures Expenditures for the Year ended March 31, 1913—Continued.

To whom paid.	Service.	DEDUCTIONS FOR			Amounts paid.	Total amounts paid.
		Superannuation.	Retirement.	Guarantee.		
	<i>Ottawa.</i>	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Hinchey, E. H.	Salary as Inspector for the year	29 43		3 60	1,141 92	
Breen, J.	" Asst. Inspector for the year			1 80	998 16	
Findlay, R.	" " "			1 80	973 14	
Church, G. C.	" " " from April 1 to July 1, 1912. Services dispensed with and re-instated from Mar. 8 to Mar. 31, 1913			0 56	235 32	
Hodgins, H. A.	" Asst. Inspector from April 1 to July 1, 1912. Services dispensed with and re-instated from Dec. 1, 1912 to March 31, 1913			0 90	374 09	
Thompson, L. L. L.	" Asst. Inspector from Jan. 1 to March 31, 1913			0 45	199 55	
	Salaries	29 43		9 11	4,222 18	
	Contingencies				3,609 95	
						7,832 13
	<i>Toronto.</i>					
McConvey, J. J.	Salary as Inspector for the year			3 60	1,496 40	
Milligan, J. R.	" Asst. Inspector from April 1 to Oct. 31, 1912. Died Nov. 1, 1912			1 20	732 08	
Wright, R. J.	" Asst. Inspector for the year	20 60		1 80	1,010 88	
Smith, J. C.	" " "			1 80	998 16	
Murdock, J.	" " "			1 80	998 16	
Cruikshank, J. L.	" " "			1 80	898 20	
Fallowdown, W. A.	" " " from Aug. 1, 1912 to March 31, 1913			1 20	465 44	
McEachern, C. A.	" Asst. Inspector from Dec. 1, 1912 to March 31, 1913			0 45	232 87	
	Salaries	20 60		13 65	6,832 19	
	Contingencies				2,943 45	
						9,775 64
	<i>Montreal.</i>					
Archambault, J. E.	Salary as Inspector for the year			3 60	1,796 40	
Daoust, J. A.	" Asst. Inspector for the year	22 96		1 86	1,125 23	
Hébert, J. A.	" " "			1 80	1,098 18	
Boulet, E.	" " "			1 80	998 16	
Beaulac, J. H.	" " "			1 80	968 97	
Galipeau, J. B. N.	" " "			1 80	898 20	
Wilson, J. C.	" " "			1 80	898 20	
Belanger, S. F.	" " " from Aug. 1, 1912 to Mar. 31, 1913			1 20	398 80	
Chapleau, J. R.	" as Asst. Inspector from Dec. 1, 1912 to Mar. 31, 1913			0 45	199 55	
	Salaries	22 96		16 05	8,381 09	
	Contingencies				4,679 17	
						13,060 86
	<i>Quebec.</i>					
Roy, C. E.	Salary as Inspector for the year			3 60	1,596 36	
Lebel, J.	" Asst. Inspector for the year	38 40		1 80	1,059 72	
Fréfontaine, F. H.	" " "			1 80	948 12	
Knowles, C.	" " "			1 80	998 16	

SESSIONAL PAPER No. 12

APPENDIX B.—Continued.

No. 6. DETAILS of Weights and Measures Expenditures for the Year ended March 31, 1913—Continued.

To whom paid.	Service.	DEBIT CLASS FOR			Amounts paid.	Total amounts paid.
		Supplimentation	Retire-ment	Guarantee		
		\$	\$	\$	\$	\$
<i>Quebec.</i>						
Bouquet, L. J.	Salary as Asst. Inspector for the year			1 80	998 16	
Caldwell, A. E.	"			1 80	418 20	
Beauchamp, L. E.	"			1 80	598 20	
Bernatchery, A.	" from Dec. 1, 1912 to Mar. 31, 1913			0 45	199 55	
Duchemin, N.	Asst. Inspector from Dec. 1, 1912 to Mar. 31, 1913				200 00	
	Salaries	88 40		14 85	7,016 47	
	Contingencies				5,512 19	12,528 66
<i>St. Hubert.</i>						
Marr, J. P.	Salary as Inspector for the year			3 60	1,296 36	
Tomlinson, W. M.	Asst. Inspector from April 1 to Aug. 31, 1912. Retired from Sept. 1, 1912			0 75	662 56	
Bessert, V.	Asst. Inspector for the year			1 80	948 12	
Fournier, L. A.	" from April 1 to May 31, 1912. Transferred to Sherbrooke from June 1, 1912			0 20	149 50	
Champagne, J. A.	Asst. Inspector from Dec. 1, 1912 to Mar. 31, 1913			0 45	199 55	
	Salaries			6 90	3,236 26	
	Contingencies				2,596 11	5,832 37
<i>Sherbrooke.</i>						
Fournier, L. A.	Salary as Inspector from June 1, 1912 to Mar. 31, 1913			2 85	997 15	
Delorme, O. C.	Asst. Inspector from Dec. 1, 1912 to Mar. 31, 1913			0 45	206 20	
	Salaries			3 30	1,263 35	
	Contingencies				2,570 92	3,834 27
<i>Three Rivers.</i>						
Lesnard, A.	Salary as Inspector for the year			3 60	811 91	
Bolduc, E.	Asst. Inspector for the year		566 00	1 80	782 16	
	Salaries		666 00	5 40	1,594 07	
	Contingencies				246 17	1,840 24
<i>St. Jean.</i>						
Barry, J.	Salary as Inspector for the year			3 60	1,396 32	
Bernier, J. A.	Asst. Inspector for the year			1 80	648 18	
White, H. E.	"			1 80	948 12	
Leblanc, J. O.	" from Aug. 1, 1912 to Mar. 31, 1913			1 20	398 80	
	Salaries				3,391 42	
	Contingencies			8 40	1,821 48	5,212 90

*Insurance.

APPENDIX B—Continued.

No. 6.—DETAILS of Weights and Measures Expenditures for the Year ended March 31, 1913—Continued.

To whom paid.	Service.	DEDUCTIONS FOR			Amounts paid.	Total amounts paid.	
		Sup- p- an- n- u- a- t- i- o- n.	Retire- ment.	Guarantee			
	<i>Halifax.</i>	¢	cts.	¢	cts.	¢	cts.
Waugh, R. J.....	Salary as Inspector for the year.....			1 80	698 16		
O'Brien, W.	" Asst. Inspector for the year.....			3 60	1,096 32		
Dillon, D. H.....	" " from Aug. 1, 1912 to Mar. 31, 1913.....			1 20	358 80		
	Salaries.....			6 60	2,193 28		
	Contingencies.....				2,461 28		4,654 56
	<i>Pictou.</i>						
Dunstan, W. M....	Salary as Inspector for the year.....	24 00		3 60	1,172 40		
Chisholm, J. J. ...	" Asst. Inspector for the year.....			1 80	898 20		
	Salaries.....	24 00		5 40	2,070 60		
	Contingencies.....				2,354 63		4,425 23
	<i>Charlottetown.</i>						
Davy, E.....	Salary as Inspector for the year.....			3 60	1,096 32		
Hughes, H.....	" Asst. Inspector for the year.....			1 80	756 53		
	Salaries.....			5 40	1,852 85		
	Contingencies.....				339 64		2,192 49
	<i>Winnipeg.</i>						
Walton, G.....	Salary as Inspector for the year.....			3 60	1,546 39		
McKay, R.....	" Asst. Inspector for the year.....			1 80	948 12		
Gilby, W. F.....	" " ".....			1 80	698 16		
Spicer, H.....	" " ".....			1 80	848 16		
McLean, D. J.....	" " ".....			1 80	664 84		
Grant, C. D.....	" " ".....			1 80	698 16		
	Salaries.....			12 60	5,463 83		
	Contingencies.....				3,441 94		8,845 77
	<i>Calgary.</i>						
Costello, J. W.	Salary as Inspector for the year.....	27 20		3 60	1,331 64		
Cook, J.....	" Asst. Inspector from April 1 to Oct. 31, 1912. Resigned Nov. 1, 1912.....			1 05	582 26		
Wilson, W.....	" Asst. Inspector from April 1 to Nov. 30, 1912. Resigned Dec. 1, 1912.....			1 20	598 80		
	Salaries.....	27 20		5 85	2,512 70		
	Contingencies.....				2,314 56		4,827 26
	<i>Saskatoon.</i>						
Johnston, C. W. ...	Salary as Inspector from Oct. 1, 1912 to Mar. 31, 1913.....			1 80	798 18		
MacKinnon, J. W. ...	" Asst. Inspector from Dec. 1, 1912 to Mar. 31, 1913.....			0 45	299 55		
McKintosh, W.....	" Asst. Inspector from Feb. 10, 1913 to Mar. 31, 1913.....			0 25	125 64		
Hayward, A. C....	" Asst. Inspector from Dec. 1, 1912 to Mar. 31, 1913.....				200 00		
McCConnell, W. J. ...	.....			1 20	372 99		
	Salaries.....			3 70	1,796 36		
	Contingencies.....				3,219 42		5,015 78

SESSIONAL PAPER No. 12

APPENDIX B—*Continued.*

No. 6.—DETAILS of Weights and Measures Expenditures for the Year ended March 31, 1913—*Continued.*

To whom paid.	Ser.	DEDUCTIONS FOR			Amounts paid.	Total amount paid.	
		Suspension inducti- on.	Retire- ment.	Change- over.			
		\$	cts.	\$	cts.	\$	cts.
Marshall, R.	Salary as Inspector from April 1, 1911 to Nov. 30, 1912, and Inspector from Dec. 1, 1912			2 40		897 60	
Dutton, A. H.	Asst. Inspector from April 1 to Nov. 30, 1912, and Inspector from Dec. 1, 1912 to March 31, 1913			2 40		1,064 24	
Harris, W. H.	Asst. Inspector for the year			1 80		348 16	
Shaw, J.	Asst. Inspector for the year			1 80		348 12	
	Swaves			5 40		3,158 12	
	Contingencies					688 50	
	Year						6,826 02
Parker, T.	Salary as Inspector for the year			3 60		1,246 32	
	Swaves			3 60		1,246 32	
	Contingencies					1,653 19	
	Year						2,870 81
MacDonald, J. F.	Salary as Inspector for the year			3 60		96 40	
	Swaves			3 60		96 40	
	Contingencies					32 25	
	Year						1,628 07
	Grand Total					2,770 32	16,142 27
Way, E. O.	Contingencies						179 65

APPENDIX B—Continued.

No. 6.—DETAILS of Weights and Measures Expenditures for the Year ended March 31, 1913—Continued.

To whom paid,	Service,	Amounts paid,	Total amounts paid,
		\$ cts.	\$ cts.
<i>General Contingencies.</i>			
Pritchard & Andrews Co., Ltd., The	Stamps and general repairs, &c.	111 27	
Oertling, L.	1 Assay balancer, &c.	2,445 50	
Fyfe, G. D.	Salary for the year	1,200 00	
Collector of Customs	Duty on imported goods	326 76	
American Bank Note Co.	Stamps supplied	44 45	
Thornton & Truman	Keys and repairs, &c.	52 40	
Birkett & Son Co., Ltd., The	Hardware supplies	49 25	
Ottawa Electric Light Co.	Rent of current supply	159 00	
Desjardins, E.	Clearing and painting standards, 30 d. at \$1.50	45 00	
Grand Trunk Ry. Co.	Freight	1 20	
Astle, H. G. & Co.	2 bags of sand, &c.	16 12	
William & Wilson	1 Auly forge bench	22 00	
Lawson, T. & Son	8 brass castings and repairs	5 00	
Smith Bros.	32 boxes for kits	107 50	
Canadian Express Co.	Express charges	104 40	
Haiskin, F. & Co.	Supplies, &c.	55 00	
Pinhey & Co.	Brokerage on customs entries	2 00	
Guimont, Mrs. H.	Cleaning rooms	142 20	
Hinsworth, W.	Express charges, &c.	47 77	
Total general contingencies			4,936 82
<i>Provisional Allowance.</i>			
Walton, G., Winnipeg, Man.	To pay McKay, R.	124 92	
"	" Spicer, H.	124 92	
"	" Gilby, W. F.	124 92	
"	" McLean, D. J.	124 92	
"	" Grant, C. D.	124 92	
"	" Keer, John	112 90	
Costello, J.W., Calgary, Alta.	" Cook, John	72 80	
"	" Wilson, W. A.	83 31	
"	" McLeod, W. F.	45 11	
Marshall, R., Vancouver, B.C.	" Dutton, A. H.	124 92	
"	" Sutherland, J. W.	35 60	
"	" Harris, W. H.	124 92	
Johnson, C.W., Saskatoon, S.	" Hayward, A. C.	78 24	
"	" MacKinnon, J. W.	114 18	
"	" Illingworth, H.	8 73	
"	" McIntosh, W.	7 06	
Total for provisional allowance			1,432 37

SESSIONAL PAPER No. 12

APPENDIX B—*Continued.*No. 6.—DETAILS of Weights and Measures Expenditures for the Year ended
March 31, 1913.—*Continued.*

To whom paid,	Services,	Amounts paid,	Total amounts paid,
<i>The Internet Bureau of Weights and Measures.</i>			
Annual contribution of the Dominion of Canada towards the Bureau's appropriation for 1912			216.00
Acct. Printing		1,200.70	
Stationery		549.65	1,750.35
Grand total			130,915.50
Acct. Old balances due by Inspectors, March 31, 1913		193.26	
Balance due by Inspectors, March 31, 1913		3.70	196.96
Less: Old balances due by Inspectors, April 1, 1912		193.26	
Balance due by Inspectors, April 1, 1912		3.70	506.96
Actual disbursements, less superannuation, pension and gratuity, agreeing with statement Nos. 194 and 196, page 50			130,915.50

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913

W. THIMSWORTH,
Deputy Minister.

SESSIONAL PAPER No. 12

APPENDIX B—Continued.

No 7.—DETAILS of Gas Inspection Expenditures for the Year ended March 31, 1913—Continued.

To whom paid.	Service.	DEDUCTIONS FOR			Amounts paid.	Total amounts paid.
		Inspection insurance.	Retire- ment.	Char- acter.		
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
<i>Ames Sound.</i>						
Graham, W. J., . . .	Salary as Inspector for the year	—	—	3 60	196 40	196 40
<i>Peterborough.</i>						
Rork, T.	Salary as Inspector for the year	—	—	3 60	146 40	146 40
<i>Sarnia.</i>						
Thrasher, W. A. . . .	Salary as Inspector for the year, Contingencies	—	—	3 60 3 75	196 40	200 15
<i>Stratford.</i>						
Rennie, G.	Salary as Inspector for the year, Contingencies	0 33	—	3 60 19 95	196 07	216 02
<i>Toronto.</i>						
Styer, J. L.,	Salary as Inspector for the year	—	79 92	3 60	1,516 44	
Pape, J.,	Asst. Inspector for the year	—	—	1 80	1,335 66	
Reesor, M. W.,	" "	—	—	1 80	1,298 16	
Ronahan, M. J.,	" "	—	—	1 80	918 12	
Ogden, G. J.,	" "	—	—	1 80	860 63	
Clark, H. M.,	" "	—	—	1 80	798 12	
Johnstone, S. F.,	" "	—	—	1 80	864 89	
Wilson, H. H.,	" " from Jan. 22 to March 31, 1913	—	—	0 36	193 24	
Mills, A. E.,	Asst. Inspector from March 7 to March 31, 1913	—	—	0 15	60 33	
	Salaries	—	79 92	14 85	7,874 90	
	Contingencies	—	—	—	1,571 32	9,446 22
<i>Woodstock.</i>						
Orr, H. N.,	Salary as Inspector for the year, Contingencies	—	—	1 80	198 29	211 29
<i>Montreal.</i>						
Aubin, A.,	Salary as Inspector for the year	—	—	3 60	1,296 32	
O'Flaherty, M. J.,	Asst. Inspector for the year	—	—	1 80	298 16	
Aubin, C.,	" "	—	—	2 88	1,047 12	
Mann, W.,	" "	—	—	2 88	297 08	
Boucher, A.,	" " from March 1 to March 31, 1913	—	—	0 15	83 18	
Blandford, E. B.,	Asst. Inspector from March 1 to March 31, 1913	—	—	0 15	83 18	
	Salaries	—	—	11 46	5,295 04	
	Contingencies	—	—	—	504 63	5,799 67

SESSIONAL PAPER No. 12

APPENDIX B—Continued.

No. 7.—DETAILS of Gas Inspection Expenditures for the Year ended March 31, 1913—Continued.

To whom paid.	Services	DEDUCTIONS FOR			Amounts paid.	Total Amounts paid.
		Superannuation.	Retirement.	Guarantee.		
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
	<i>Manitoba.</i>					
Shaw, J.	Salary as Inspector for the year			3 60	96 40	96 40
	<i>New Westminster.</i>					
Waldenden, W.	Salary as Inspector for the year		2 96	3 60	186 36	186 36
	<i>Provincetown.</i>					
Stott, Jas.	Contingencies				111 00	111 00
	<i>Victoria.</i>					
Jones, R.	Salary as Inspector from April 1 to July 1. Resigned	1 50		50	72 60	
Dresser, F.	Salary as Inspector from June 21, 1912, to March 31, 1913			2 65	954 84	
	Salaries	1 50		3 55	1,027 44	1,027 44
	<i>Eastern Dominion Inspector.</i>					
Laible, A. B.	Contingencies				291 00	291 00
	<i>Western Dominion Inspector.</i>					
Higman, O., Jr.	Contingencies				42 80	42 80

APPENDIX B—*Continued.*No. 7.—DETAILS of Gas Inspection Expenditures for the Year ended March 31, 1913—*Concluded.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	<i>General Contingencies.</i>	\$ cts.	\$ cts.
American Bank Note Co....	Stamps supplied.....	70 00	
Pritchard & Andrews Co., Ltd., The.....	Stamps and general repairs.....	177 55	
Canadian Consolidated Rub- ber Co.....	Rubber hose and rubber tubing.....	247 20	
Harrison & Co.....	39 glass jars.....	97 50	
Lymans, Ltd.....	2 gros. lead books.....	11 20	
Canadian Express Co., The.....	Express charges.....	0 35	
Brueya, C.....	Supplies and repairs.....	14 80	
Collector of Customs.....	Duty on imported goods.....	22 30	
Dominion Express, The.....	Express charges.....	4 86	
Shaeffer & Budenberg Mfg. Co., The.....	12 Syphons, "U" gauge, &c.....	50 55	
Wright, Alex. & Co.....	3 doz. gauges.....	112 32	
Pinhey & Co.....	Brokerage on customs entries.....	1 00	
Hinsworth, W.....	Paid for express charges, &c.....	14 38	
	Total gas contingencies.....		824 01
	ADD—Printing.....	4,111 78	
	Stationery.....	1,071 61	
			5,183 39
	Grand total.....		49,982 33
	ADD—Balances due by Inspectors March 31, 1913.....		212 88
			50,195 21
	LESS—Balances due by Inspectors April 1, 1912.....		212 88
			49,982 33
	Actual disbursements (less superannuation, retire- ment and guarantee) agreeing with statement No. 21, page 54.....		49,982 33

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.W. HIMSWORTH,
Deputy Minister.

SESSIONAL PAPER No. 12

APPENDIX B—Continued.

No. 8.—DETAILS of Electric Light Expenditures for the Year ended March 31, 1913.

To whom paid.	Service.	Deductions for Guarantees.	Amounts paid.	Total amounts paid.
		\$ cts.	\$ cts.	\$ cts.
<i>Beaumont.</i>				
Fraser, H.	Salary as Inspector for the year	7 20	992 76	
Johnson, C. W.	Asst. Inspector from July 1 to Sept. 30, 1912 and transferred as Inspector to Saskatoon Oct. 1, 1912 to March 31, 1913	6 43	35 86	
	Contingencies	7 63	1,028 62	1,500 04
<i>Fort Worth.</i>				
Little, E.	Salary as Inspector from Jan. 1 to March 31, 1913.	9 73	244 43	
	Contingencies		139 16	383 59
<i>Hamilton.</i>				
Lutz, H.	Contingencies			673 88
Kinsman, E. A.	Salary as assistant Inspector, at large, now attached to the Hamilton district.	6 54		340 61
<i>London.</i>				
Nash, A. F.	Contingencies			471 74
<i>Orillia.</i>				
Reche, H. G.	Contingencies			681 80
<i>Pasadena.</i>				
Stayer, J. L.	Contingencies			1,001 19
<i>Montreal.</i>				
Aubin, A.	Contingencies			1,165 89
<i>Quebec.</i>				
Levasseur, N.	Contingencies			495 21
<i>Steelesburg.</i>				
Simpson, A. F.	Contingencies			162 86
<i>S. Hamilton.</i>				
Provost, J. E.	Salary as Inspector for the year	1 80	298 20	
	Contingencies		93 40	391 60
<i>Three Rivers.</i>				
Robitaille, G. W.	Salary as Inspector for the year	1 80	498 20	
	Contingencies		235 02	733 22
<i>St. John.</i>				
Wilson, J. E.	Contingencies			223 50
<i>Halifax.</i>				
Toole, J.	Contingencies			531 11

APPENDIX B—Continued.

No. 8.—DETAILS of Electric Light Inspection Expenditures for the Year ended March 31, 1913—Continued.

To whom paid.	Service.	Deductions for Guarantee.	Amounts paid.	Total amounts paid.
	<i>Charlottetown.</i>	\$ cts.	\$ cts.	\$ cts.
Bell, J. H.	Contingencies			115 72
	<i>Winnipeg.</i>			
Hamilton, R.	Contingencies			3,227 88
	<i>Calgary.</i>			
Kyle, W. P.	Salary as Inspector for the year	3 60	1,196 40	
Jones, Bruce.....	" Asst. Inspector from Oct. 10, 1912 to Mar. 31, 1913	0 90	599 10	
	Salaries.....	4 50	1,795 50	
	Contingencies.....		413 67	2,209 17
	<i>Edmonton.</i>			
Roe, E. A.	Salary as Inspector for the year	3 60	1,296 40	
	Contingencies		249 39	1,745 79
	<i>Regina.</i>			
Hunter, W. M. ..	Salary as Inspector for the year	3 60	1,296 40	
	Contingencies		1,603 42	2,899 82
	<i>Vancouver.</i>			
Stott, J.	Salary as Inspector for the year	3 60	1,596 36	
Templeton, W. A.	" Asst. Inspector for the year	3 60	1,146 36	
Power, O. S.	" " "	1 80	1,048 20	
Scouler, G. T.	" " from July 1, 1912 to March 31, 1913	1 35	898 65	
	Salaries.....	10 35	4,689 57	
	Contingencies.....		1,548 55	6,238 12
	<i>Victoria.</i>			
Dresser, F.	Contingencies			159 45
	<i>Yukon.</i>			
Macdonald, J. F.	Salary as Inspector for the year	3 60		496 40
	<i>Eastern Dominion Inspector.</i>			
Lambe, A. B.	Salary as Dominion Eastern Inspector for the year ..	3 60	2,471 38	
	Contingencies.....		186 85	2,658 23
	<i>Western Dominion Inspector.</i>			
Higman, O., Jr.	Salary as Dominion Western Inspector for the year ..	3 60	2,471 38	
	Contingencies.....		991 78	3,463 16
	<i>Chief Electrical Engineer.</i>			
Higman, O., Sr.	Contingencies.....			1,292 26

APPENDIX B—*Continued.*

STATEMENT No. 9—Showing the amount paid during the Year 1912-13 to different companies for guaranteeing outside officers of the Inland Revenue Department.

	Amounts paid.
	\$ cts
The Railways Passenger Assurance Co.....	196 32
The Imperial Guarantee and Accident Insurance Co.....	487 46
The Dominion of Canada Guarantee and Accident Co.....	420 46
The Guarantee Co. of North America.....	445 79
The London Guarantee and Accident Assurance Co.....	181 61
The Employers Liability Assurance Corporation.....	466 39
Total.....	2,197 94

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

APPENDIX B—*Continued.*

No. 19.—List of Permanent Employees of the Inland Revenue Department, as of 31st March, 1913, classified according to the year in which they were appointed.

Name.	Services.				
	General Administration	Weights and Measures	Excise	Electric Light Inspection	Prevention of Fraud
Alexander, H. F.	1				
Alexander, A. R.	1				
Alexander, Thos.	1				
Allen, A. F.	1				
Allen, G. A.	1				
Altmann, Peter J.	1				
Ames, Wm.	1				
Andrews, A. A.	1				
Aronold, D.	1				
Archambault, J. E.	1				
Armstrong, T. E.	1				
Armstrong, Walter	1				
Arbin, A.	1				
Asden, C.	1				
Auger, L. H.	1				
Babington, F. C.	1				
Ba'ry, W. A. D.	1				
Baikié, D.	1				
Ballantyne, A.	1				
Barbeau, L.	1				
Barber, J. S.	1				
Barnes, G.	1				
Barrett, J. K.	1				
Barrett, J. P.	1				
Barry, James	1				
Bayard, Gilbert A.	1				
Beard, Miss M. H.	1				
Beasley, M. C.	1				
Beauchamp, Dr. L. I.	1				
Beaulac, J. H.	1				
Beaulieu, J. B.	1				
Belair, A. (Plessis d')	1				
Beland, F. N. W. E.	1				
Bell, J. H.	1				1
Belleperche, A. J. E.	1				
Belvoa, T. H.	1				
Benjamin, S.	1				
Bennett, James	1				
Benoit, L. V.	1				
Bergeron, E. E.	1				
Bergeron, R. J.	1				
Bernard, N. J. D.	1				
Bernier, Jean A.	1				
Bernier, J. Auguste	1				
Berry, H. L.	1				
Bezaire, T. M.	1				
Bickle, J. W.	1				
Bissell, C. H.	1				
Blackman, C.	1				
Blothen, C. William	1				
Blyth, Alex.	1				
Bolduc, Ephrem	1				
Bond, M. B.	1				
Bosmer, J. B.	1				
Bondet, E.	1				
Bourgeois, E. (Bourgeois)	1				
Bourget, L. J.	1				
Bourget, O.	1				
Bousquet, A.	1				

APPENDIX B—Continued.

No. 10.—List of Permanent Employees of the Inland Revenue Department,
1912—1913—Continued.

Names.	Services.						
	Insite.	Excise.	Weights and Measures.	Gas.	Electric Light Inspection.	Preventive.	Food Inspection.
Bonsquet, J. O.		1					
Boutiller, G. A.		1					
Boyce, F. C.				1	1		
Boyman, Allan		1					
Boyd, J. F. S.		1					
Boyle, P.		1					
Branbant, J. B. G. N.		1					
Breen, John			1				
Brennan, John		1					
Bridgman, M. W.		1					
Broadfoot, S.		1		1			
Brodeur, P. E. S.	1						
Brown, W. J.		1					
Bruce, G. B.		1					
Burgess, T.	1						
Burke, T.		1					
Burns, R. J.		1					
Byrne, W. P.		1					
Cahill, J. W.		1					
Caldwell, A. B.			1				
Cameron, D. M.		1					
Campbell, A. E.		1					
Cantin, J. W. Z.	1						
Carroll, D.		1					
Carroll, F. P.		1					
Casey, F. J.		1					
Caven, W.		1					
Chagnon, C. P.		1					
Chartier, Etienne		1					
Chateauvert, G. E.	1						
Cheseldine, J. H.		1					
Chilver, F. W.		1					
Chisholm, J. J.			1				
Chisholm, W. N.		1					
Clark, H. M.				1	1		
Clark, James Alfred		1					
Clarke, Thomas		1					
Clegg, Jos.			1				
Codd, Herber J. S.		1					
Code, Abraham		1					
Cole, N. R.	1						
Coleman, Charles		1					
Coleman, J. J.		1					
Coles, F. H.		1					
Comte, L. A. A. J.		1					
Conkhu, W. M.		1					
Cook, W. J.		1					
Cook, W. R.		1					
Costello, J. W.			1				
Costigan, J. J.		1					1
Coughlin, D.			1				
Coulter, Alex.		1					
Courtney, J. J.		1					
Coutts, J. J.		1					
Crevier, J. H.		1					
Cryderman, C. W.		1					
Cruickshank, J. L.			1				
Cummiford, F. D.		1					

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APPENDIX B—*Continued.*

No. 10—List of Permanent Employees of the Inland Revenue Department, 1912-1913—*Continued.*

Name	Services						
	Book	Letter	Weights and Measures	City	Electric Light Inspection	Provisions	Local Inspection
Currie, W. W.		1					
Dager, H. J.		1					1
Dalton, M. J.		1					
Davoust, J. A.		1	1				
Daychuy, J. P.		1					
David, T.		1					
Davis, T. G.		1					
Davy, Edward		1	1				
Dawson, W.		1					
Deely, F.		1					
Dennis, F. C.		1		1	1		
Desautniers, J. E. A.		1					
Dessart, A.		1	1				
Dingman, N. J.		1					
Dixon, H. G. S.		1					
Dontigny, H.		1					
Doyle, E. J.		1					
Doyl, E. F.	1						
Doyon, J. A.	1						
Dimagne, J. D.		1					
Dumbrille, R. W.		1					
Dumontier, J. A.		1					
Dumonchel, Landrie		1					
Dunbar, G. E.		1					
Dunlop, C.		1					
Duplessis, C. Z.		1					
Durston, W. M.		1	1				
Dutton, A. H.		1	1				
Dwyer, D. T.		1					
Eakins, G. G.		1					
Eard, R. W.		1					
Egner, A.		1					
Elliott, T. H.		1					
Elliott, W. J.		1					
Evans, C. J.	1						
Evans, G. T.		1					
Fahey, Ed.		1					
Fairley, W.		1					
Falconer, James		1					
Falconer, R. H.		1					
Farmer, R. C.		1					
Ferguson, John C.		1					1
Fiddes, James		1					
Fidler, H.		1					
Fielding, Laura G.		1					
Filtean, J. R.		1					
Findlay, R.		1	1				
Fitzgerald, E. W.		1	1				
Fitzpatrick, W. J.		1					
Fletcher, R. W.		1					1
Floody, E.		1				1	
Forest, E. R.		1					
Forster, E. L. C.		1					
Forsyth, D.		1					
Forward, C. C.		1					
Foster, J. Henry		1					
Fournier, L. A.		1	1				
Fowler, George		1					
Fox, J. D.		1	1				

APPENDIX B—*Continued.*

No. 10—List of Permanent Employees of the Inland Revenue Department,
1912-1913—*Continued.*

Names.	Services.					
	Inside.	Excise.	Weights and Measures.	Gas.	Electric Light Inspection.	Preventive Food Inspection.
Fox, Thomas		1				
Francour, A.		1				
Frankland, H. R.		1				
Fraser, H.				1	1	
Fraser, P.		1				
Fredland, Anthony		1				
Furlong, C. J.	1					
Galipeau, J. B. N.			1			
Gallagher, T.			1	1	1	
Gamache, J. N.		1				
Gariepy, L. N.		1				
Gauvin, E.		1				
Geldart, O. A.		1				
George, John		1				
Gerard, C.		1				
Gerald, W. H.		1				
Gerald, W. J.	1					
Gervais, J. A.		1				
Gervais, J. H.	1					
Gilby, W. F.			1			
Gillies, Archibald L.		1				
Gilpin, R. R.		1				
Girard, René		1				
Goodhue, M. L. E. B.	1					
Gorman, Arthur M.		1				
Gosnell, T. S.		1				
Goude, D. A.		1				
Gow, J. E.		1				
Graham, A. L.		1				
Graham, W. J.		1		1		
Graham, W. T.		1				
Grant, C. D.			1			
Grant, H. H.		1				
Grant, W. M.			1			
Granton, C.	1					
Gray, R. S.		1				
Graveline, D. P.		1				
Greig, W. G.		1				
Gregor, R. W.		1				
Griffin, P. F.		1				
Griffith, M. L.	1					
Grimason, Thomas		1				
Grosbois, (de), Chas. B.		1				
Guay Alp.			1			
Hagerty, B.	1					
Halliday, W. A.	1					
Hambley, S. E.		1				
Hamilton, R.				1	1	
Hammond, T. W.		1				
Hanley, A.		1				
Hanlan, J. R.		1				
Harris, W. H.			1			
Harwood, J. O. A.		1				
Hayhurst, T. H.		1				
Hébert, C. D.		1				
Hébert, J. A.			1			
Helliwell, H. N.		1				
Henderson, H. D. G.		1				

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APPENDIX B—Continued.

No. 19—List of Permanent Employers of the Inland Revenue Department,
1912-1913. *Continued.*

Name	Services						
	Birth	Evil	Weights and Measures	Exc.	Electro Light Inspection	Preventive	Food Inspection
Hesson, C. A.							
Hicks, W. H.				1			
Higman, O.	1						
Higman, O., Jr.				1	1		
Himsworth, Wm.	1						
Hinchey, E. H.			1				
Hiscott, J. O.							
Hogon, James							1
Howell, Thomas							
Howe, A.							
Howson, G. H.			1				
Hudloy, H. H.							
Hudon, L. E.							
Huggett, A. P.							
Hughes, Henry			1				
Hughes, P. A.	1						
Hughes, R. A.			1				
Hunter, W. M.				1	1		
Hurst, Leon, B.							
Hur, B.							
Ivory, W. J.							
James, T. C.							
Jameson, S. B.							
Jameson, R. C.							
Jeffrey, A. J.							
Johnson, J. J.							
Johnson, C. W.				1	1		
Johnston, H. J.							
Johnston, E. J. A.							
Johnstone, S. F.					1	1	
Jones, Andrew							
Kearney, D. J.							
Keay, W. S.							
Kelly, J. T.							1
Keogh, P. M.							
Kidd, Thomas							
King, R. M.							
Kirkpatrick, H. J.							
Kitto, W. V.	1						
Knowles, C.							
Kylo, R.							
Ladouceur, J.	1						
Ladouceur, J. A.				1			
Latham, J. L. K.	1						
Laidman, Richard H.				1			
Lally, J. E.							
Lambe, A. E.					1	1	
Lambert, J. A.							
Lamoureux, J. A.							
Lane, T. M.							
Langelier, Francois							
Laporte, Geo.							
Lauviers, A. C.							1
Lakno, Alexandre							
Laurier, J. L.							
Lawless, E. M.	1						
Lawlor, H.							

APPENDIX B—Continued.

No. 10—List of Permanent Employees of the Inland Revenue Department,
1912-1913—Continued.

Names.	Services.					
	Inside.	Excise.	Weights and Measures.	Gas.	Electric Light Inspection.	Preventive. Food Inspection.
Lawlor, John J.		1				
LeBel, J. A. W.			1			
Leblanc, F. X.			1			
Leckie, T. L.	1					
Lee, Edward		1				
Lemoine, A.	1					
Lemoine, Jules		1				
Lesperance, J. A.		1				
Lessard, A.			1			
Le Vasseur, N.				1	1	
Lewis, H. B.	1					
Liddle, D.			1			
Long, W. H. A.		1				
Longtin, H.		1				
Love, G. G.		1				
Lyon, A. V.	1					
Lyons, E.		1				
Macdonald, A. B.		1				
Macdonald, G.		1				
Macdonald, J. A.			1			
Macdonald, J. F.		1	1		1	
Mackay, J. C.		1				
Mackenzie, J. H.		1				
MacLean, C. E.				1		
MacLean, D. J.				1		
Mainville, C. P.		1				
Male, Thomas				1		
Mann, W.				1	1	
Maranda, N. A.		1				
Marin, L. H.		1				
Marion, H. R.		1				
Marshall, R.			1			
Martin, N.		1				
Martineau, O. E. J.		1				
Mason, F.		1				
Maurice, E.		1				
Mathews, E. D. K.	1					
Melville, T. R.		1				
Miller, J. E.		1		1	1	
Miller, W. F.		1				
Miller, Elie		1				
Milliken, E.		1				
Milot, J. F.		1				
Mitchell, J. L.		1				
Morforton, E.		1				
Montgomery, W. H.		1				
Mooney, G. B.		1				1
Moore, F.		1				1
Morgan, E. J.		1				
Morin, J. P.			1			
Morris, T. H.		1				
Munro, H. D.		1		1	1	
Murdoch, James			1			
Murphy, F. C.				1	1	
Murray, David		1				
McArthur, G. H.		1				
McConvey, J.			1			
McCullough, A.	1					
McCutcheon, H.		1				
McFee, C.		1				

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APPENDIX B—Continued.

No. 19.—LIST of Permanent Employees of the Inland Revenue Department, 1912-1913—Continued.

Names.	Services.					
	Hotel	Excise	Weights and Measures	Trains	Electric Light Inspection	Food Inspection
McGill, A.	1					
McGowan, J.	1					
McGuire, T. J.	1					
McGuire, T.	1					
McKay, R.	1					
McKell, M. E. E.	1					
McLoughan, N.	1					
McNoughton, J. C.	1					
McNiven, J. D.	1					
McPherson, E. A.	1					
McPhie, Donald	1				1	
McSween, James	1					
Nash, A. F.	1				1	
Neil, James	1					
Newsome, I.	1					
Nicholl, F. A.	1					
Niven, T. D.	1					
Noonan, H. T.	1					
Noonan, J. M.	1					
Normandin, G.	1					
O'Brien, E. C.	1					
O'Brien, James	1					
O'Brien, W.	1		1			
O'Brien, J. E.	1					
O'Donnell, J.	1					
O'Donnell, M. J.	1					
O'Donohue, M. J.	1				1	
O'Flaherty, M. J.	1				1	
Ogden, G. J.	1					
O'Leary, T. J.	1					
Oliver, J. T.	1					
Oliver, H.	1					
Ort, Henry N.	1			1		
Ostigny, L. R.	1					
O'Sullivan, D.	1					1
Panneton, G. E.	1					
Pape, James.	1			1	1	
Parent, F.	1					
Parker, Thomas	1		1			1
Parkinson, Edward B.	1					
Patterson, C. E. A.	1					
Pleasance, W.	1					
Potras, Wilfred	1					
Popham, F. H.	1					
Portelance, P. A.	1					
Powell, E. B.	1			1		
Power, J. F.	1					1
Power, O. S.	1				1	1
Profontaine, F. H.	1		1			
Provost, I. E.	1				1	
Quain, Redmond	1					
Quinn, J. D.	1					
Reesor, M. W.	1				1	1
Reihan, Jas.	1					
Remahan, M. J.	1				1	
Renand, A. H.	1					
Rennie, George	1				1	
Richard, J. B. T.	1		1			
Rickey, J. A.	1					

APPENDIX B—Continued.

No. 10—List of Permanent Employees of the Inland Revenue Department,
1912-1913—Continued.

Names.	Services.						
	Inland.	Excise.	Weights and Measures.	Gas.	Electric Light Inspection.	Preventive.	Food Inspection.
Ridgman, A. H.		1					
Ritchie, H.		1					
Robins, S. W.			1				
Robert, A.	1						
Robillard, G. A.		1					
Robitaille, G. W.					1		
Roche, H. G.				1	1		
Roche, W. J.				1			
Roe, F. A.					1		
Rork, T.		1		1			
Rose, John A.		1					
Ross, H. E.		1					
Rouleau, C. E.		1					
Rouleau, J. C., jr.		1					1
Rousseau, Elzéar H.		1					
Rowan, W. E.		1					
Roy, C. E.			1				
Roy, L.	1						
Roy, L. G.	1						
Saucier, X.		1					
Scanlan, T. J.		1					
Schram, R. L. H.		1					
Schuler, F. C.		1					
Scullion, W. J.		1					
Sealey, J. C.			1				
Shanacy, M.		1		1	1		
Shaw, J.			1	1			
Shaw, J. F.	1						
Shorey, A. B.		1					
Simpson, A. F.		1		1	1		
Simpson, G.		1					
Simpson, W. A.		1					
Skelton, A. R.				1	1		
Slattery, Thomas.			1				
Sloan, W.		1					
Smith, B. H.		1					
Smith, J. C.			1				
Snowdon, J. W.		1					
Sparling, J. W.		1					
Spence, F. H.		1					
Spicer, H.			1				
Sprague, F. W.		1					
Standish, J. G.		1					
Stiver, J. L.				1	1		
Stott, James.				1	1		
Sutherland, W.		1					
St. Michel, F. X.		1					
Sykes, W. J.		1					
Talbot, John.		1					1
Taylor, G. W.	1						
Teevens, L. P.	1						
Templeton, W. A.				1	1		
Therien, J. F.			1				
Thomas, J. S.			1				
Thomas, F. W.		1					
Thomas, Robert.		1					
Thorborn, J.		1					
Thrasher, W. A.		1		1			
Thurber, G.		1					

SESSIONAL PAPER No. 12

APPENDIX B—*Continued.*No. 10.—List of Permanent Employees of the Inland Revenue Department,
1912-1913—*Continued.*

Name	Service						
	1912	1913	Western Manitoba	East Manitoba	Electric Light Inspection	Pro- curative	Food Inspection
Till, T. M.							
Timmons, R.							
Toole, J.							
Tobin, Thomas S.		1					
Tomlinson, W. M.							
Tompleus, P.		1					
Topin, J. A.		1					
Tracy, J. P.		1					
Truempert, G.	1						
Tytler, J. M.		1	1		1	1	
Valin, J. E.	1						
Valin, J. A. G.	1						
Vernier, Thomas H.		1					
Wardell, S. J.		1					
Walker, J. H., Jr.		1					
Walsh, Daniel J.		1					
Walsh, W. H.		1					
Watson, V. M.		1					
Walton, G.		1					
Watugh, R. J.		1					
Way, E. O.							
Webb, C. F. A.							
Weeks, W. A.		1					
Westman, T.	1						
Wheatley, Alfred F.							
White, H. E.			1				
White, J. E.		1					
Whitehead, J. P.		1					
Wilson, D. C. J.		1					
Wilson, H. R.		1					
Wilson, J. C., Jr.			1				
Wilson, J. F.							
Wink, J. C.		1					
Withers, S. W.					1	1	
Wolfenden, William		1			1		
Wood, C. E.		1					
Wood, James A.		1					
Woodward, G. W.		1					
Wright, Robert J.			1				
Wright, S. E.	1						
Yettis, R. P.	1						
Young, J. J.		1					
Young, R. E.		1					
Totals	57	343	72	57	41	3	

APPENDIX B--Continued.

No. 11.—List of Permanent Employees of the Inland Revenue Department employed on salary, during only a portion of the Year ended March 31, 1913.

Names.	Period.	Services.				
		Inside.	Excise.	Weights and Measures.	Gas.	Electric Light Inspection.
Archambault, F. X.	From November 7 to March 31, 1913		1			
Bélanger, S. F.	" August 1, 1912 to March 31, 1913			1		
Belisle, E.	" April 1 to July 31, 1912	1				
Bernatchez, A.	" December 1, 1912 to March 31, 1913			1		
Blandford, E. B.	" March 1 to March 31, 1913				1	1
Boncher, A.	" March 1 to March 31, 1913				1	1
Bourgeois, C.	" April 1 to April 30, 1912		1			
Boyd, S. I.	" April 1 to December 31, 1912		1			
Brain, A. F.	" April 1 to July 3, 1912		1			
Brick, J. H.	" July 27, 1912 to March 31, 1913			1		
Butler, F. H.	" April 1 to July 31, 1912			1		
Cahill, J. H.	" April 1 to October 31, 1912		1			
Campeau, F. R. E.	" April 1 to Nov. 30, 1912	1				
Chemier, E.	" July 1, 1912 to March 31, 1913			1		
Champagne, J. A.	" December 1, 1912 to March 31, 1913			1		
Chapleau, J. R.	" December 1, 1912 to March 31, 1913			1		
Chisholm, J. A.	" January 1 to March 31, 1913		1			
Church, G. C.	" April 1 to June 30, 1912, and from March 8 to March 31, 1912		1			
Clements, R. A.	" January 1 to March 31, 1913		1			
Cook, John	" April 1 to October 31, 1912			1		
Couvette, A. A.	" June 11, 1912 to March 31, 1913				1	
Deland, A. N.	" April 1 to October 31, 1912		1			
Delorme, O. C.	" December 1, 1912 to March 31, 1913			1		
Desroches, L.	" August 1, 1912 to March 31, 1913		1			
Diamond, F. D.	" January 13 to March 31, 1913			1		
Dillon, D. H.	" August 1, 1912 to March 31, 1913			1		
Dowling, D. J.	" April 1, 1912 to February 28, 1913		1			
Doyle, F. S.	" March 1 to March 31, 1913		1			
Dresser, F.	" July 6, 1912 to March 31, 1913				1	1
Duchesne, N.	" December 1, 1912 to March 31, 1913			1		
Dutton, A. H.	" December 1, 1912 to March 31, 1913			1		
Egan, W.	" April 1 to November 30, 1912		1			
Fagan, P. J.	" January 1 to March 31, 1913		1			
Fletcher, F. W.	" June 1, 1912 to March 31, 1913		1			
Fournier, L. A.	" June 1, 1912 to March 31, 1913			1		
Fyfe, Jas.	" April 1 to July 31, 1912		1			
Gilbert, A.	" August 1, 1912 to March 31, 1913		1			
Goodman, A. W.	" April 1, 1912 to February 28, 1913		1			
Gosselin, Miss B.	" July 1, 1912 to March 31, 1913		1			
Hayward, A. C.	" December 1, 1912 to March 31, 1913			1		
Hodgins, G. C.	" December 1, 1912 to March 31, 1913			1		
Hodgins, H. A.	" April 1 to June 30, 1912			1		
Howard, W. W. S.	" April 1 to October 31, 1912		1			
Jephson, W. J.	" November 16, 1912 to March 31, 1913		1			
Johnson, W.	" June 1 to October 30, 1912				1	1
Johnston, C. W.	" July 4, 1912 to March 31, 1913				1	
Jones, B. B.	" October 1, 1912 to March 31, 1913				1	1
Keeler, G. S.	" April 1, 1912 to January 31, 1913		1			
Kinsman, E. A.	" December 12, 1912 to March 31, 1913				1	1
Labelle, L. V.	" April 1 to August 13, 1912		1			
Leblanc, O. J. O.	" August 1, 1912 to March 31, 1913			1		
Lefebvre, A.	" April 6, 1912 to March 31, 1913		1			
Little, E.	" January 18 to March 31, 1913				1	1
Lutz, H.	" October 16, 1912 to March 31, 1913				1	1
MacGregor, D. N.	" May 13, 1912 to March 31, 1913		1			
Mackay, J. C.	" September 16, 1912 to March 31, 1913		1			
Mackinnon, J. W.	" December 1, 1912 to March 31, 1913			1		
Mainville, P. C.	" November 1, 1912 to March 31, 1913		1			
Mantha, J. A.	" March 1 to March 31, 1913		1			

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APPENDIX B *(Continued)*

No. 11.—List of Permanent Employees of the Inland Revenue Department employed on Salary, during only a portion of the Year ended March 31, 1913. *(Continued)*

Name	Date of Appointment	Service				
		Inch.	Exec.	Wood and Mercantile	Gen.	Education and Inspection
Martin, N. H.	December 1, 1912					
Martin, A. P.	April 1, 1912					
Mercer, C. A.	December 1, 1912					
Mirzagan, R. J.	April 1, 1913					
Mills, A. F.	March 7, 1913					
Munichro, J.	December 17, 1912					
McCloskey, J. R.	April 1, 1913					
McConnell, W. J.	March 27, 1913					
McGoy, W.	April 1, 1913					
McDonnell, A. J.	April 1, 1913					
McDonald, J.	May 1, 1913					
McEachern, C. A.	December 1, 1912					
McIntosh, W.	February 1, 1913					
McPherson, W. H.	April 1, 1913					
Marant, E.	October 1, 1912					
Matry, J. H.	April 1, 1913					
Pelletier, N. G.	April 1, 1913					
Perman, C.	April 1, 1913					
Pudlow, W. J.	April 1, 1913					
Riebarson, W.	April 1, 1913					
Ross, W. A.	September 1, 1912					
Sawyer, G. T.	December 1, 1912					
Saion, J. R.	April 1, 1913					
Stratton, W. C.	April 1, 1913					
Traverton, C. B.	February 1, 1913					
Trumpson, I. F.	December 1, 1912					
Wilson, H. H.	January 1, 1913					
Wilson, W. A.	April 1, 1913					
Winstanley, P.	April 1, 1913					

APPENDIX B—*Concluded.*

No. 12.—NUMBER of Permanent Employees of the Inland Revenue Department and the different services in which they were employed, during the Year ended March 31, 1913.

RECAPITULATION.

Employed during the year.....	512
" a portion of the year.....	88
Total	<u>600</u>

SERVICES.

Inside.....	62
Excise.....	354
Weights and Measures.....	91
Gas.....	12
Electric Light.....	3
Preventive.....	2
Food.....	1
Excise, Weights and Measures and Gas.....	1
" and Gas.....	11
" Gas and Electric Light.....	6
" and Food.....	12
" Weights and Measures, Gas and Electric Light.....	1
Weights and Measures, Gas and Electric Light.....	2
" " " " and Food.....	2
Gas and Electric Light.....	39
Gas, Electric Light and Food.....	<u>1</u>
	600

W. HIMSWORTH,

Deputy Minister.

INLAND REVENUE DEPARTMENT,

OTTAWA, June 1, 1913.

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REPORTS, RETURNS AND STATISTICS
OF THE
INLAND REVENUES

DOMINION OF CANADA

FOR THE YEAR ENDED MARCH 31

1913

PART II

WEIGHTS AND MEASURES, GAS AND ELECTRICITY

PRINTED BY ORDER OF PARLIAMENT



OTTAWA

PRINTED BY C. H. PARMELEE, PRINTER TO THE KING'S MOST
EXCELLENT MAJESTY

1913

REPORT

OF THE

DEPUTY MINISTER OF INLAND REVENUE

ON THE

INSPECTION OF WEIGHTS AND MEASURES, GAS AND ELECTRICITY

To the Honourable
The Minister of Inland Revenue.

Sir,—I have the honour to submit herewith my annual report on the inspection of weights and measures, gas and electricity, with the usual statements in connection therewith for the fiscal year ended March 31, 1913.

1. The total revenue collected during the year for the inspection of weights and measures, was \$100,606.52 as against \$107,498.60 collected during the twelve months ended March 31, 1912.

2. The total expenditure was \$131,344.71, as against \$124,256.83 expended during the year ended March 31, 1912.

3. Appendix 'A' gives a summary statement of the receipts and expenditures of each inspection division.

4. In Appendices 'B,' 'C' and 'D' will be found a detailed statement of weights, measures and weighing machines presented for verification, verified and rejected during the year. The number of all descriptions may be summarily stated as follows:—

	Presented	Verified.	Rejected.	Percentage of Rejections.
Weights, Dominion	61,502	61,165	337	546
Measures of capacity, Dominion	144,293	144,258	35	603
Lineal measures	10,889	10,831	49	453
Balances, equal arms	12,264	11,994	270	1 720
" steelyards	5,944	4,981	963	1 248
" platform scales	44,965	43,760	1,205	2 551
Miscellaneous weights	2,461	2,456	5	203
" measures of capacity	11,965	11,945	20	2 815
" balances	66,414	66,184	230	346

5. The decrease in revenue shown in par. 1, above, is mainly due to the fact that the past period included nine months of the annual inspection work for 1912, and therefore comparison should not be made with the biennial fiscal year ending March 31, 1912, but with the previous annual inspection period ending March 31, 1911, the revenue for which was \$98,661.80, showing an increase of revenue for the past annual period of \$2,024.72.

6. The increase in expenditure is due to the fact that practically the same immense territory has to be journeyed to perform annual inspection as biennial inspection, whilst expenses for the cartage and transportation of inspectors' standards and equipment is more largely borne by the Service.

An additional item of expense to the extent of \$2,432.43 was also incurred by the purchase of new standards, mentioned below, for the equipment of the W. & M. Standards Branch.

7. I might here remark that there is throughout the Dominion, amongst the public, scale manufacturers, retail and wholesale merchants, and elevator interests, an intense and growing demand for more efficient and more frequent W. & M. Inspection, and also for considerable reduction in the inspection fees collected. It would seem then that the time has come when the deficit incurred by the W. & M. Service must be accepted as an administrative obligation, and as one that must necessarily increase and be provided for in the interests of the stability and integrity of Canadian commerce.

8. The following is a list of the standards, balances and weights above referred to provided, as in the case of the standards of 1874, from L. Oertling, of London, England.

Standard Weights—

- One set Troy Standards, 500 ozs. down to .001 oz.
- One set Avoirdupois Standards, 50 lbs. down to $\frac{1}{2}$ dram.
- One set Metric Standards, 20 kgs. down to .05 mg.

Balances—

- One Bullion Balance to carry 1,000 ozs. Troy in each pan, and sensitive to .1 grain.
- One Bullion Balance to carry 500 ozs. Troy in each pan, and sensitive to .1 grain.
- One Bullion Balance to carry 200 ozs. Troy in each pan, and sensitive to .01 grain.
- One Assay Balance to carry 2 grammes in each pan, and sensitive to .005 mg., or the .000077 grain.

These standards are stamped by the Board of Trade, England, and accompanied with certificates of verification, showing in the case of each weight its exact weight in vacuo to the fourth and fifth decimal of the grain, and have been procured as the primary reference standards of the department, and to supplement those which have been in use since 1874.

The fine assay balance has been procured in order that the Standards Branch may be in a position to verify with the requisite accuracy, the assay standards used in the annual trial of the Pyx at the Canadian Royal Mint.

Each of the above standards have been designated by the letter "C."

INSPECTION OF GAS.

9. The total revenue collected during the twelve months ended March 31, 1913, for the inspection of gas and gas meters, was \$62,747.40 as compared with \$51,356.25 collected during the year ended March 31, 1912.

10. The total expenses were \$50,253.49 as against \$45,232.47 expended during the year ended March 31, 1912.

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11. Appendix 'E' gives a summary statement of the receipts and expenditures of each gas inspection district.

12. A statement of the illuminating power and purity of gas inspected during the year will be found in Appendix 'F.'

13. The illuminating power, where inspection has been made, has been as follows:

Places,	Number of tests made,	Number of times below Standard	Places,	Number of tests made,	Number of times below Standard.
Barré,	12		St. Catharines,	12	
Belleville,	10		St. Thomas,	24	
Berlin,	12		Toronto,	106	
Brockville,	14		Windsor,		
Cobourg,	12		Woodstock,	12	
Cornwall,	18		Montreal,	104	
Deseronto,	0		Quebec,	12	
Guelph,	12		Sudbroke,	6	
Hamilton,	15		St. Hyacinthe,	12	
Ingersol,	12		Fredericton,		
Kingston,	12		Moncton,	4	
Lastowel,	12		St. John, N. B.,	10	
London,	104		Halifax,	12	
Napanee,	5		Yarmouth,	12	
Ottawa,	104	34	Charlottetown,	12	
Owen Sound,	12		Winnipeg,	101	14
Peterborough,	24		Nanaimo,	12	
Port Hope,	11		New Westminster,	12	
Sarnia,			Vancouver,	52	17
Stratford,	12		Victoria,	8	4

The revenue derived from the inspection of electricity was as follows:—

Fees for inspection of meters, &c.,	\$74,833 80
The expenses of inspection (annual),	\$33,767 75
Expended on standard instruments, and maintenance of equipment,	8,945 13
	<u>42,712 88</u>
Leaving a net revenue of	<u>\$32,120 92</u>

Since the year 1896-97 the two services of gas and electricity inspection, which are conducted largely by the same staff of officers, have reached that point at which they have ceased to be a burden upon the general taxpayer, as shown below :—

Years.	Gas and Electricity.	
	Revenue.	Expenditure.
	\$ cts.	\$ cts.
*1899-1900.....	35,523 50	26,424 48
1900-01.....	37,536 57	28,247 20
1901-02.....	43,663 05	33,328 48
1902-03.....	49,054 55	36,006 47
1903-04.....	50,218 75	33,426 15
1904-05.....	62,561 37	34,774 02
1905-06.....	76,539 00	38,917 48
1906-07.....	57,868 18	30,793 84
1907-08.....	86,552 20	48,831 75
1908-09.....	92,450 21	54,018 71
1909-10.....	100,647 20	55,514 14
1910-11.....	112,150 25	63,385 03
1911-12.....	117,917 45	80,537 87
1912-13.....	138,090 95	93,000 82

* Exclusive of cost of standard instruments.

It will be observed that the reduction of fees in connection with the Gas and Electricity Inspection service made in 1909 and 1911 (referred to in a previous report) has not brought about an equilibrium between receipts and expenditure. Another year should pass before a decision is reached respecting any further reduction. The reduced fees (1911) have only applied to a portion of the fiscal year 1911-12.

The kindred service of weights and measures inspection, it will be observed, earned about 77 per cent of its actual cost, the expenditure as already stated having been \$131,344.71 against a revenue of \$100,696.52.

I have the honour to be, sir,

Your obedient servant,

W. HIMSWORTH,

Deputy Minister.

INLAND REVENUE DEPARTMENT,

OTTAWA, June 1, 1913.

APPENDIX A.

STATEMENT of Weights and Measures Expenditures and Revenues for the Fiscal Year ended March 31, 1913.

Inspection Divisions.	Inspectors and Assistants.	Expenditures.					Revenues.		
		Salaries.	Special Assistance.	Printing.	Traveling Expenses.	Stationery.	Total.	Salaries.	
		\$.	\$.	\$.	\$.	\$.	\$.	\$.	
Bellefleur.	Johnson, W. G. Diamond, F. D. Hayson, G. H. Kybe, R. Shattery, Theo.	3,222.86	75.00	441.27	1,120.57	304.88	7,364.58	2,600.00	
Hamilton.	Sealey, J. C. Clogg, Jos. Fitzgerald, E. W. Ludman, R. H. Robins, S. W. Wheatley, A. E. Brink, J. H.	6,741.29	200.00		1,843.79	140.72	8,925.80	1,492.00	
Kingston.	Gallagher, Thos. Johnston, C. W. McLean, C. F. Davis, J. M.	2,499.90	150.00		417.25	48.30	2,815.45	1,519.05	
London.	Butler, E. H. Hughes, R. A. Goughlin, D. Liddle, D. Thomas, J. S. Robinson, J. T. Cada, F. A.	4,504.06	611.07		2,083.03	355.03	7,553.19	10,241.85	
Ottawa.	Hinchey, E. H. Boen, J. Church, G. C. Findley, Robt. Hodgins, H. A. Dugal, G. A. Hodgens, Gerald Laliberte, Geo. Sheppard, C. E. Robinson, A. N. Trumppour, T.	4,260.72	1,685.08		1,819.40	105.68	7,870.88	7,084.67	
Toronto.	McGonaghy, J. J. Crankshank, J. E. Mulligan, R. J. Munroch, Jos. Smith, J. C. Wright, R. J. Fallowdown, W. A. McEachern, C. A. Stokes, R. A.	6,866.44	700.00		2,084.77	148.00	9,800.89	12,867.83	
	Ontario.	27,895.27	3,421.14		441.27	3,339.50	12,203.30	42,339.46	42,191.99

APPENDIX A—Continued.

STATEMENT of Weights and Measures, Expenditures and Revenues for the Fiscal Year ended March 31, 1913.

Inspection Divisions.	Inspectors and Assistants.	Expenditures.						Revenues.	
		Salaries.	Special Assistance.	Seizures.	Rent.	Travelling Expenses.	Supplies.		Totals.
		\$ cts.	cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.		\$ cts.
Montreal.	Archaubault, J. E. D'Aoust, J. A. Boudet, E. Beaulac, J. H. Galipeau, J. B. N. Hebert, J. A. P. Macbeth, W. Wilson, J. C. Belanger, S. F. Van Antwerp, C. D. Chapleau, Raoul	8,420 70	650 00	1,350 00	2,483 40	245 68	13,099 87	13,570 60	
Quebec.	Roy, Chs. E. Bourget, L. J. Caldwell, A. B. Lebel, J. A. W. Gauvin, B. Knowles, Chs. Préfontaine, F. H. Beauchamp, L. E. Duchesne, Naz. Miles, G. Desjardins, H. Lortie, A. Bernatchez, Abel. Dionne, L. A.	7,099 72	2,604 16	366 67	2,326 83	214 53	12,611 91	5,076 30	
Sherbrooke.	Fournier, L. A. Delorme, Ovide. Van Antwerp, C. B. Lemire, J. N.	1,266 65	1,246 41	325 00	951 37	248 14	4,037 57	6,034 30	
St. Hyacinthe.	Morin, J. P. Dessert, V. Desmarais, A. Fournier, L. A. Richer, A. Tomlinson, W. M. Boisvert, Fortunat. Van Antwerp, C. B. Lemire, J. N. Champagne, J. A.	3,233 16	1,188 20		1,286 01	115 90	5,823 27	3,966 40	
Three Rivers.	Lessard, Albert G'duc, E.	1,665 47			192 88	53 29	1,911 64	481 10	
	Quebec.	21,685 70	5,688 77	2,041 67	7,190 58	877 54	37,484 26	29,128 70	
St. John, N. B.	Barry, James. Leblanc, J. O. White, H. E. Limerick, A. K. Bernier, J. A.	3,399 82	800 00		974 68	46 80	5,221 30	3,840 23	

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APPENDIX A—Continued.

STATEMENT of Weights and Measures Expenditures and Revenues for the Fiscal Year ended March 31, 1913.

Inspection Divisions.	Inspectors and Assistants.	Expenditures.						Totals.	Revenues.
		Salaries.	Special Assistant.	Salaries.	Rent.	Traveling Expenses.	Supplies.		
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
Halifax, N.S.	O'Brien, W. Sargent, E. H. Waugh, R. Dillon, D. H.	2,199 88	1,059 92	707 36	769 64	121 36	4,968 16	1,480 67	
Pictou	Dunlop, W. M. Christholm, J. J. Campbell, D. A. Laurence, G. C.	2,100 00	1,218 00		945 00	190 75	4,453 75	2,741 84	
	Nova Scotia	4,299 88	2,277 92	707 36	1,714 64	312 11	9,117 79	3,622 51	
Charlottetown, P.E.I.	Davy, E. Hughes, H.	1,878 25	00 00		251 91	28 63	2,158 79	542 68	
Winnipeg, Man.	Walton, G. Gilley, W. F. Grant, C. D. McKay, R. McLean, D. G. Spicer, H. Landry, Thos. Kerr, John. Bowen, A. A.	5,416 43	563 90		2,556 15	291 80	8,828 28	10,965 69	
Saskatoon, Sask.	Johnston, C. W. Hayward, A. C. Mackinnon, J. W. Illingsworth, H. Welsh, W. R. McIntosh, W.	1,800 00	1,238 74		1,448 33	532 35	5,019 42	2,689 10	
Calgary, Alta.	Costello, J. W. McLeod, N. T.	2,545 75	343 00		1,904 70	96 86	4,890 31	3,700 22	
Nelson, B.C.	Parker, Thos. Sutherland, J. W.	1,249 92	173 47	15 00	1,292 40	152 62	2,883 41	1,250 95	
Vancouver, B.C.	Dutton, A. H. Shaw, J. Harris, W. H.	3,166 52	12 00 75		200 05	455 70	3,835 02	2,718 25	
	British Columbia	4,416 44	185 47 75	15 00	1,492 45	608 32	6,718 43	4,049 20	
Dawson, Yukon	McDonald, J. F.	1,000 00			24 00	8 25	1,032 25	26 50	

APPENDIX A—*Concluded.*

STATEMENT of Weights and Measures Expenditures and Revenues for the Fiscal Year ended March 31, 1913.

RECAPITULATION.

	Expenditures.							Revenues.	
	Salaries	Special Assist- ance.	Seizures.	Rent.	Travelling Expenses.	Sundries.	Total.		
	£ cts.	£ cts.	£ cts.	£ cts.	£ cts.	£ cts.	£ cts.	£ cts.	
Ontario	27,895 27	3,421 14		441 25	9,369 50	1,203 30	42,330 46	42,191 99	
Quebec	21,685 70	5,688 77		2,041 67	7,199 58	877 54	37,484 26	29,128 70	
New Brunswick	3,399 82	800 00			974 68	46 80	5,221 30	3,840 23	
Nova Scotia	4,299 88	2,277 92		507 36	1,715 54	315 09	9,115 79	3,622 51	
Prince Edward Island	1,858 25	60 00			251 01	28 63	2,197 89	542 68	
Manitoba	5,416 43	593 90			2,556 15	291 89	8,858 37	10,905 39	
Saskatchewan	1,800 06	1,238 74			1,448 33	532 35	5,019 48	2,689 10	
Alberta	2,545 75	343 00			1,904 70	66 86	4,860 31	3,709 22	
British Columbia	4,416 44	185 47 75		15 00	1,492 45	608 32	6,718 43	4,049 20	
Yukon	1,000 00				24 60	8 25	1,032 25	26 50	
Chief Inspector		46 80			76 35	47 48	170 63		
General Contingencies						4,936 82	4,936 82		
Printing						1,230 70	1,200 70		
Stationery						549 65	549 65		
Provisional Allowance						1,432 37	1,432 37		
International Bureau of Weights & Measures						216 00	216 00		
Grand Totals	74,317 60	14,655 74 75		3,005 28	27,003 29	12,362 05	131,344 71	100,696 52	

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.W. HIMSWORTH,
Deputy Minister.

APPENDIX B

APPENDIX

RETURN of Weights and Measures inspected during the Fiscal Year ended March 31,
each Division, for each Province,

Inspection Office.	Weights.								Measures of Capacity.					
	Dominion.			Troy.		Miscellaneous.			Dominion.			Miscellaneous.		
	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.
Belleville	875	852	23						501	500	1	56	56	
Hamilton	9,303	9,300	3	8	5	34	38		7,786	7,785	1	244	233	11
Kingston	503	508				3	3		3,357	3,357		14	14	
London	2,077	2,073	4			406	406		46,879	46,878	1	25	24	1
Ottawa	1,033	1,019	14			2	3		1,541	1,528	16	229	227	2
Toronto	5,364	5,326	38	18	18	4	4		29,406	29,406		2,939	2,936	3
Ontario	25,160	25,078	82	26	26	453	453		89,473	89,454	19	3,507	3,490	17
Montreal	9,889	9,832	57	118	118	175	175		30,461	30,461		1,206	1,189	17
Quebec	6,983	5,922	161			1,001	996	5	7,373	7,364	9	134	134	
Sherbrooke	4,948	4,948		12	12	306	306		837	837		43	43	
St. Hyacinthe	3,532	3,532				237	237		2,366	2,365	1	119	114	5
Three Rivers	724	724				1	1		564	564		12	12	
Quebec	25,176	24,958	218	130	130	1,720	1,715	5	41,601	41,591	10	1,514	1,492	22
St. John, N.B. ...	2,772	2,772				31	31		5,624	5,624		4,715	4,715	
Halifax	1,188	1,188				21	21		730	730		220	220	
Pictou	1,564	1,564				17	17		1,202	1,202		235	235	
Nova Scotia ...	2,752	2,752				38	38		1,932	1,932		455	455	
Charlottetown, P.E.I.	451	454							117	117		30	30	
Winnipeg, Man. ...	3,570	3,533	37			50	50		5,175	5,169	6	974	693	281
Saskatoon, Sask. ...	172	172				1	1		44	44		17	17	
Calgary, Alta. ...	312	312							21	21		122	122	
Nelson	454	454				1	1		243	243		17	17	
Vancouver	680	680				11	11		63	63		14	14	
Br. Columbia. ...	1,134	1,134				12	12		306	306		31	31	
Dawson, Yukon. ...														
Grand total. ...	61,502	61,165	337	156	156	2,305	2,300	5	144,293	144,258	35	11,365	11,045	320

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B.

1913, showing the Total Number brought for Verification, Verified and Rejected for and for the whole Dominion.

Measures of length.		Balances, &c.										
		Foot Arms.		Stoolyards.		Platform Scales, Weigh Bridges, &c.		Miscellaneous.				
Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	
76	76	207	207	45	45	1,091	1,065	13	592	591	1	
898	886 12	1,950	1,841	109	1,619	1,587 52	6,194	5,657	597	3,431	3,360	71
57	57	91	91	14	14	7 8	728		341	341		
3,773	3,773	447	443	4	168	13	3,285	3,206	79	5,227	5,213	14
124	117 7	1,091	1,091	33	20	20	1,834	1,834	19	2,534	2,507	27
1,917	1,917	1,328	1,293	35	927	412 15	4,668	4,352	116	10,471	10,435	36
6,245	6,226 19	5,117	4,964	153	2,263	2,216 47	17,620	16,576	744	22,596	22,464	132
2,316	2,316	2,062	2,040	22	1,197	1,188 9	5,135	4,986	149	11,711	11,682	29
1,120	1,096 24	1,920	1,015	5	375	273 2	2,271	2,245	26	864	860	4
135	129 6	1,003	1,004		579	579	5,197	5,187	10	342	341	1
278	278	620	620		271	269 2	3,692	3,672	20	160	160	
59	59	124	121		21	21	264	256	8	41	40	1
3,908	3,878 30	4,820	4,802	17	2,343	2,330 13	14,559	14,326	233	17,115	17,082	33
12	12	604	604		30	29 1	1,074	1,061	13	97	96	1
1	1	300	299	1	47	47	787	762	25	446	44	1
72	72	300	300		18	18	797	797		389	389	
73	73	609	608	1	65	65	1,584	1,579	25	865	844	1
		97	97		19	19	366	364		352	352	
526	526	696	608	28	95	94 1	378	3,270	108	21,445	21,396	49
		41	1		1	1	800	800	14	318	315	3
1	1	59	49	1	74	73 1	1,144	1,138	8	2,275	2,248	27
115	115	84	84		8	78	567	567		270	269	1
		167	166		30	30	907	907		4,004	4,004	
115	115	251	251		148	148	1,474	1,474		1,574	1,573	1
					6	6	7	7		7	7	
10,880	10,831 19	12,204	11,990	210	5,044	4,981 15	41,905	43,760	1,146	66,014	66,181	270

WM. HILSWORTH,
Deputy Minister.

4 GEORGE V., A. 1914

APPENDIX

RETURN showing the Number of Dominion Weights and Linal Measures of each Fiscal Year ended

Inspection Division.	Dominion														
	Avoir														
	60 lbs.	50 lbs.	30 lbs.	25 lbs.	20 lbs.	10 lbs.	7 lbs.	5 lbs.	4 lbs.	3 lbs.	2 lbs.	1 lb.	8 ozs.	4 ozs.	2 ozs.
Belleville.....					12			21	80	106	205	194	62	58	47
Hamilton.....	2,284		27		18	33		303	271	1,323	2,180	1,489	304	275	368
Kingston.....		2	1		1	18		29	36	53	106	102	45	38	33
London.....						19		59	99	190	438	385	214	201	181
Ottawa.....		33	3		2	4		265	39	385	540	327	850	819	796
Toronto.....		96	44			128		400	441	352	1,556	1,153	266	237	246
Ontario.....	2,415		75		21	214		1,077	916	2,409	5,025	3,650	1,741	1,628	1,671
Montreal.....		133	20		25	176		684	484	1,006	1,990	1,755	1,050	890	730
Quebec.....	2	21	6		10	45		365	490	591	927	879	823	749	633
Sherbrooke.....		324		2	2	11		74	492	65	1,331	1,192	500	292	239
St. Hyacinthe.....						30		209	227	697	896	521	328	229	261
Three Rivers.....						5		40	28	102	136	118	94	82	56
Quebec.....	2	478	26	2	37	267		1,363	1,721	2,461	5,280	4,465	2,795	2,242	1,919
St. John, N.B.					20	25		142	223	359	756	619	239	167	113
Halifax.....						4		37	89	123	372	270	108	68	60
Pictou.....		283				21		49	62	227	364	304	59	52	46
Nova Scotia.....		283				25		86	151	350	736	574	167	120	106
Charlottetown, P.E.I.						2		17	31	46	142	108	29	23	21
Winnipeg, Man.		269	1	3	68	73		144	219	392	726	557	189	187	178
Saskatoon, Sask.		21	3		8	16		7	45	10	26	18	3	3	3
Calgary, Alberta		12	1	2	2	18		32	35	29	86	62	9	6	6
Nelson.....								4	15	23	108	90	42	37	32
Vancouver.....		3	8		5	19		7	23	55	162	151	47	43	39
British Columbia....		3	8		5	19		11	38	78	270	241	89	80	77
Dawson, Yukon.....															
Totals.....	2	3,481	114	7		166		2,879	3,429	6,134	13,047	10,294	5,261	4,456	4,094

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

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C

Denomination presented for Verification in each Inspection Division during the March 31, 1913.

Weights.							Linear Measures.														
dupois.							Miscellaneous Weights.														
1 oz.	8 lbs.	4 lbs.	2 lbs.	1 lb.	1/2 lb.	Total Number.	Troy Weights.	Miscellaneous Weights.	6 feet.	3 feet.	1 yard.	1/2 yard.	2 feet.	1 foot.	1/2 foot.	100 feet chains.	66 feet chains.	1/4 mile of ribbon.	Total number.	Miscellaneous measures.	
35	27	17	7	3	1	875														76	
197	148	57	17	9		9,593	8	38												893	
24	11	8	4			508		3												57	
156	95	36	4			2,077		406												3,773	
772	753	1,424	13	6	2	3,934		2												421	
224	123	58	17	21	2	7,791	18	4												1,917	
1,408	1,157	1,699	59	39	5	25,166	26	453												6,245	
488	185	95	79	99		9,889	118	175												2,316	
408	97	25	6	4	2	6,988		1,093												1,119	
225	161	26	6	5	1	4,948	12	396												1	
198	27	6	1	1		3,332		267												278	
40	11	3	3	3	3	721		1												59	
1,269	481	155	95	112	6	23,176	130	1,729												3,966	
65	28	14	2			2,772		31												12	
42	11	1				1,188		21												1	
44	28	15	8	2		1,564		17												72	
86	39	19	8	2		2,752		38												73	
17	19	5	3			434															
172	126	107	74	85		3,570		59												526	
3	2	2	1	1		172		1													
6	5	1				312														1	
34	28	25	9	1		454		1												115	
37	31	26	29	3	1	689		41													
71	59	51	29	4	1	1,131		12												145	
3,997	1,997	1,954	271	245	12	61,502	156	2,305												10,880	

WM. HIMS WORTH,
Deputy Minister

APPENDIX

RETURN showing the Number of Dominion Weights and Linal Measures of each March

Inspection Division.	Dominion														
	Avoir-														
	60 lbs.	50 lbs.	30 lbs.	25 lbs.	20 lbs.	10 lbs.	7 lbs.	5 lbs.	1 lbs.	3 lbs.	2 lbs.	1 lb.	2 ozs.	4 ozs.	2 ozs.
Belleville					11	20	74	192	198	193	61	57	46		
Hamilton	2,284	27	18	33	303	271	1,323	2,179	1,488	393	275	368			
Kingston	2	1	1	18	29	36	53	106	192	45	38	33			
London				19	59	99	189	437	385	214	201	180			
Ottawa	33	3	2	4	265	35	385	537	324	846	819	796			
Toronto	96	44		128	399	438	349	1,541	1,143	264	235	244			
Ontario	2,415	75	21	213	1,975	953	2,491	5,961	3,635	1,733	1,625	1,667			
Montreal	133	20	25	175	686	479	1,000	1,979	1,745	1,640	885	726			
Quebec	2	21	6	10	44	365	469	568	900	854	795	733	625		
Sherbrooke	324		2	11	74	492	65	1,331	1,192	500	292	239			
St. Hyacinthe				30	260	227	697	896	521	328	229	261			
Three Rivers				5	40	28	102	136	118	94	82	76			
Quebec	2	478	26	37	265	1,349	1,695	2,432	5,242	4,430	2,757	2,221	1,907		
St. John, N.B.				20	25	142	223	359	756	619	239	167	113		
Halifax				4	37	89	123	372	270	108	68	60			
Pictou	283			21	49	62	227	364	304	59	52	46			
Nova Scotia	283			25	86	151	359	736	574	167	120	106			
Charlottetown, P.E.I.				2	17	31	46	142	108	29	23	21			
Winnipeg, Man.	268	1	3	68	73	144	218	392	724	556	188	163	176		
Saskatoon, Sask.	21	3	8	16	7	45	10	26	18	3	3	3			
Calgary, Alta.	12	1	2	18	32	35	29	86	62	9	6	6			
Nelson					4	15	23	108	90	42	37	38			
Vancouver	3	8	5	19	7	33	59	162	151	47	43	39			
British Columbia	3	8	5	19	11	38	78	270	241	89	80	77			
Dawson, Yukon															
Totals	2	3,480	114	7	161	656	2,433	3,389	5,097	12,983	10,243	5,214	4,498	4,076	

INLAND REVENUE DEPARTMENT,

OTTAWA June 1, 1913.

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C Continued.

Denomination verified in each Inspection Division during the Fiscal Year ended 31, 1913.

Weights.

deposits.

Voz.	Weights						Total Number	Troy Weights		Miscellaneous Weights		Linear Measures								
	sdls	lbdls	pdls	lbd	dr			6.000	5.000	1 yard	1/2 yard	1 foot	1/2 foot	1 foot	1/2 foot	100 feet chains	100 feet chains	1/2 or 1/4 band	Total number	Miscellaneous measures
35	27	17	7	3	1	54													76	76
197	148	57	17	9		231			15										586	586
24	11	8	4			30			3										37	37
155	95	36	4			135			16										3,773	3,773
772	753	1,124	13	6	2	2,668			2										417	417
222	122	58	17	21	2	213	18	4											1,017	1,017
1,405	1,156	1,000		29		2,584	75	43											6,226	6,226
187	185	95	79	99		545	118	173											1,316	2,316
197	96	25	6	4	2	324		96											1,096	1,096
225	161	26	6		1	415	12	66											129	129
108	27	6	1	1		35		267											278	278
40	11	3	3	3		20		1											59	59
1,257	480	155	95	112	6	2,105	130	1,717											3,878	3,878
65	28	14	2			109			31										19	12
12	11	4				27			21										1	1
14	28	15	8	2		53			17										72	72
86	39	19	8	2		144			38										79	78
17	10	5	3			35														
168	125	107	74	89		355			59										26	326
3	2	2	1	1		7			1											
6	5	1				11			12										1	1
34	28	25	9	1		97			1										115	115
37	31	26	20	3	1	92			11											
71	59	51	29	4	1	115			12										115	115
3,988	1,904	1,951	271	243	12	61,165	156	2,270											10,831	10,831

W. HIMSWORTH,
Deputy Minister.

APPENDIX

RETURN showing the number of Dominion Weights and Lineal Measures of each March

Inspection Division.	Dominion														
	Avoir														
	60 lbs.	50 lbs.	30 lbs.	25 lbs.	20 lbs.	10 lbs.	7 lbs.	5 lbs.	4 lbs.	3 lbs.	2 lbs.	1 lb.	8 ozs.	4 ozs.	2 ozs.
Belleville						1		1	6	4	7	1	1	1	1
Hamilton											1	1	1		
Kingston															
London										1	1				1
Ottawa									4	3	3	3	4		
Toronto								1	3	3	12	10	2	2	2
Ontario						1		2	13	8	24	15	8	3	4
Montreal						1		4	5	6	11	10	10	5	4
Quebec						1		10	21	23	27	25	28	16	8
Sherbrooke															
St. Hyacinthe															
Three Rivers															
Quebec						2		14	26	29	38	35	38	21	12
St. John, N.B.															
Halifax															
Pictou															
Nova Scotia															
Charlottetown, P.E.I.															
Winnipeg, Man		1							1		2	1	1	24	2
Saskatoon, Sask.															
Calgary, Alta.															
Nelson															
Vancouver															
British Columbia															
Dawson, Yukon															
Totals		1				3		16	40	37	64	51	47	48	18

APPENDIX

RETURN showing the Number of Dominion Measures of Capacity, Balances and Inspection Division, during the Fiscal

Inspection Division.	Measures of Capacity.											
	Dominion.										Total number.	Miscellaneous.
	Bushel.	$\frac{1}{2}$ bushel.	Peck.	Gallon.	$\frac{1}{2}$ gallon.	Quart.	Pint.	$\frac{1}{2}$ pint.	Gill.	$\frac{1}{4}$ gill.		
Belleville	1	8	28	106	100	163	86	8	1	.....	501	56
Hamilton	347	224	406	1,112	1,193	2,035	1,891	522	26	.....	7,786	244
Kingston	17	399	3 9	5 8	472	802	691	69	.....	.....	3,357	14
London	891	2,020	1,075	5,867	6,085	13,895	15,021	2,025	.....	.....	46,879	25
Ottawa .....	.....	5	15	256	451	456	287	67	8	.....	1,544	229
Toronto .....	.....	1,642	1,117	2,897	5,938	7,071	8,565	1,868	8	.....	29,406	2,939
Ontario	1,256	4,298	3,300	10,815	10,239	24,422	26,541	4,559	43	.....	89,473	3,507
Montreal	147	551	1,538	4,427	4,751	7,454	8,500	2,961	132	.....	30,461	1,206
Quebec	1	140	285	1,487	1,924	1,647	1,228	596	60	5	7,373	134
Sherbrooke	1	3	5	156	269	247	109	42	5	.....	837	43
St. Hyacinthe .....	.....	82	162	399	543	665	337	191	46	1	2,366	119
Three Rivers .....	.....	31	43	90	126	145	82	31	16	.....	564	12
Quebec	149	807	2,033	6,559	7,613	10,098	10,256	3,821	259	6	41,601	1,514
St. John, N.B. ....	.....	294	296	1,115	1,926	1,094	670	229	.....	.....	5,624	4,715
Halifax	1	2	5	153	295	203	65	6	.....	.....	730	220
Pictou .....	.....	3	2	180	471	439	104	3	.....	.....	1,202	235
Nova Scotia	1	5	7	333	766	642	169	9	.....	.....	1,932	455
Charlottetown, P.E.I. ....	.....	.....	.....	7	17	56	35	2	.....	.....	117	30
Winnipeg, Man	24	.....	.....	972	1,528	1,896	716	25	2	2	5,175	974
Saskatoon, Sask .....	.....	.....	.....	22	9	8	5	.....	.....	.....	44	17
Calgary, Alta.	1	.....	.....	8	8	4	.....	.....	.....	.....	21	122
Nelson .....	.....	.....	5	59	95	64	20	.....	.....	.....	243	17
Vancouver .....	.....	.....	.....	18	5	23	15	2	.....	.....	63	14
British Columbia .....	.....	.....	5	77	100	87	35	2	.....	.....	306	31
Dawson, Yukon .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	1,431	5,404	5,641	19,908	26,206	38,307	38,427	8,657	304	8	144,293	11,365

SESSIONAL PAPER No. 13

D.

Weighing Machines of each Denomination presented for Verification in each Year ended March 31, 1913.

Balances.

With equal arms.				Steelyards with divided arms.				Weigh Bridges or Platform Scales.						Total.	Miscellaneous.
5 lbs. and under.	6 lbs. to 50 lbs.	51 lbs. to 100 lbs.	101 lbs. and upwards.	500 lbs. and under.	501 lbs. to 1,000 lbs.	1,001 lbs. to 2,000 lbs.	2,001 lbs. and upwards.	250 lbs. and under.	251 lbs. to 500 lbs.	501 lbs. to 2,000 lbs.	2,001 lbs. to 4,000 lbs.	4,001 lbs. to 6,000 lbs.	6,001 lbs. and upwards.		
97	108	2		43				276	59	352	129	46	229	1,343	592
747	1,183	1	19	1,500	20			2,998	163	2,238	296	211	288	9,763	3,431
32	59			13	1			85	41	399	21	30	152	833	341
217	226	4		133	4	1		775	67	1,650	192	58	543	3,870	3,227
745	345	3	1	17	1	1	1	63	129	810	48	54	150	2,268	2,534
584	673	2	69	395	18	12	2	2,337	114	1,390	262	56	309	6,223	10,471
2,422	2,594	12	89	2,191	44	23	5	7,134	573	6,839	948	455	1,674	25,000	22,596
632	1,406	29	4	1,171	31	3	12	1,489	1,192	1,839	156	133	396	8,394	11,711
191	733	16	84	264	11			808	719	920	26	29	69	3,566	861
440	562	1		549	18	5	7	2,293	794	1,685	171	181	193	6,779	342
182	138			261	5		5	2,063	527	842	63	98	39	4,583	160
19	105			20	1			90	57	92	9	5	11	409	41
1,464	3,244	33	88	2,265	46	8	24	6,713	3,169	5,978	425	466	768	23,731	13,115
182	422			30				817	815	576	48	28	130	2,548	917
98	201		1	44	3			491	94	159	15	18	109	1,134	446
89	220			17	1			352	114	175	17	23	156	1,124	389
187	421		1	64				753	298	325	32	41	225	2,258	835
22	75			19				165	32	178	17	12	19	479	352
195	420	5	16	65	29		1	637	68	929	241	529	954	4,109	21,445
2	3	1	5	1				24		33	30	186	587	872	318
19	24	2	5	40	13	20	1	224	17	349	60	91	405	1,270	2,255
40	41	3		31	9	18		239	15	210	12	8	83	709	270
79	94		3	32	9	49		363	33	396	41	6	68	1,164	4,304
110	135	3	3	63	18	67		602	48	606	53	14	151	1,873	4,574
						2		4	1	6				13	7
4,603	7,338	56	207	4,735	151	120	31	17,933	4,371	14,919	1,854	1,822	4,910	62,153	66,414

W. HIMSWORTH,
Deputy Minister.

RETURN showing the Number of Dominion Measures of Capacity, Balances and during the Fiscal Year ended

Measures of Capacity

Inspection Division.	Dominion.											
	Bushel.	$\frac{1}{2}$ Bushel.	Peck.	Gallon.	$\frac{1}{2}$ Gallon.	Quart.	Pint.	$\frac{1}{2}$ Pint.	Gill.	$\frac{1}{2}$ Gill.	Total Number.	Miscellaneous.
Bellefleur	1	8	27	106	100	163	86	8	1		509	56
Hamilton	347	224	406	1,111	1,193	2,035	1,891	522	26		7,785	233
Kingston	17	399	359	548	472	802	691	69			3,357	14
London	891	2,019	1,075	5,867	6,085	13,895	15,021	2,025			46,878	24
Ottawa		5	15	253	147	452	283	66	7		1,528	227
Toronto		1,642	1,417	2,897	5,938	7,071	8,565	1,868	8		29,406	2,936
Ontario	1,256	4,297	3,290	10,812	14,235	24,418	26,537	4,558	12		89,454	3,490
Montreal	147	551	1,533	4,427	4,751	7,454	8,500	2,961	132		30,461	1,189
Quebec	1	149	285	1,486	1,920	1,614	1,227	596	60	5	7,364	134
Sherbrooke	1	3	5	156	269	247	109	42	5		837	43
St. Hyacinthe		82	162	399	543	604	337	191	46	1	2,365	114
Three Rivers		31	43	90	126	145	82	31	16		564	12
Quebec	149	807	2,033	6,558	7,609	10,094	10,255	3,821	239	6	41,591	1,492
St. John, N.B.		294	296	1,145	1,926	1,994	670	229			5,624	4,715
Halifax	1	2	5	153	295	205	65	6			730	229
Pictou		3	2	180	471	439	104	3			1,202	235
Nova Scotia	1	5	7	333	766	642	169	9			1,932	455
Charlottetown, P.E.I.				7	17	56	35	2			117	30
Winnipeg, Man.	24			971	1,526	1,894	715	35	2	2	5,169	693
Saskatoon, Sask.				22	9	8	5				44	17
Calgary, Alta.	1			8	8	4					21	122
Nelson			5	59	15	64	20				243	17
Vancouver				18	5	23	15	2			63	14
British Columbia			5	77	109	87	35	2			306	31
Dawson, Yukon												
Totals	1,431	5,463	5,649	19,963	26,190	38,297	38,421	8,656	363	8	144,258	11,245

SESSIONAL PAPER No. 13

D—Continued.

Weighing Machines of each Denomination Verified, in each Inspection Division March 31, 1913.

Balances.															Miscellaneous.
With Equal Arms.				Steelyards with Divided Arms.				Weigh Bridges on Platform Scales.							
5 lbs. and under.	6 lbs. to 50 lbs.	51 lbs. to 100 lbs.	101 lbs. and upwards.	500 lbs. and under.	501 lbs. to 1,000 lbs.	1,001 lbs. to 2,000 lbs.	2,001 lbs. and upwards.	2,500 lbs. and under.	2,51 lbs. to 500 lbs.	501 lbs. to 2,000 lbs.	2,001 lbs. to 4,000 lbs.	4,001 lbs. to 6,000 lbs.	6,001 lbs. and upwards.	Total.	
97	168	2		13				274	57	343	129	45	223	1,320	591
721	1,100	1	19	1,559	20		1	2,884	135	2,021	255	202	190	9,115	3,360
32	59			13	1			85	41	399	21	30	152	833	341
214	225	4		133	4	1		763	64	1,025	185	51	518	3,787	5,213
743	311	3	1	17	1	1		661	128	799	46	52	149	2,916	2,591
596	655	1	69	381	17	12	2	2,309	107	1,333	248	51	298	6,055	10,455
2,373	2,491	11	89	2,146	43	23	4	9,976	532	6,523	881	434	1,336	24,056	22,461
637	1,389	29	4	1,162	11	3	12	1,461	1,076	1,788	147	143	371	8,214	11,681
191	729	11	84	292	11			801	717	612	26	29	65	3,533	869
149	562	1		549	18	5	7	2,291	794	1,681	171	181	189	9,719	1,141
182	438			259	5		5	2,036	345	894	63	97	97	4,341	139
19	105			20	1			96	54	89	8	5	16	491	36
1,159	3,223	32	88	2,252	46	8	24	9,999	3,061	4,994	415	455	732	23,417	13,882
182	422			29				876	374	569	48	27	127	7,761	716
98	260		1	41	3			388	91	140	44	16	167	1,256	445
81	226			17	1			377	114	175	17	23	116	7,124	589
187	420		1	61	4			750	267	315	31	36	219	2,232	874
22	75			19				105	32	178	17	12	19	379	312
182	405	5	16	64	29		1	945	67	896	231	506	94	3,972	21,796
2	3	1	5	1				94		39	36	181	578	878	175
48	24	2	5	39	13	20	1	224	17	347	66	89	161	1,290	2,748
49	41	3		31	9	18		249	15	214	12	8	83	709	264
79	91		3	32	9	19		353	23	396	41	6	68	1,164	4,794
116	115	3	7	63	18	67		602	48	666	53	14	151	1,875	4,156
					2	4		1	6						7
4,535	7,198	54	297	4,674	135	118	34	16,810	4,282	11,461	1,730	1,767	4,671	66,722	66,184

W. HEMSWORTH,
Deputy Minister.

APPENDIX

RETURNS showing the Number of Dominion Measures of Capacity, Balances and during the Fiscal Year ended

Inspection Division.	Measures of Capacity.									Total number	Miscellaneous.	
	Dominion.											
	Bushel.	$\frac{1}{2}$ bushel.	Peck.	Gallon.	$\frac{1}{2}$ gallon.	Quart.	Pint.	$\frac{1}{2}$ pint.	Gill.			$\frac{1}{2}$ gill.
Belleville			1								1	
Hamilton				1							1	11
Kingston												
London			1								1	1
Ottawa				2	4	4	4	1	1		16	2
Toronto												3
Ontario		1	1	3	4	4	4	1	1		19	17
Montreal												17
Quebec				1	4	3	1				9	
Shedden												
St. Hyacinthe						1					1	5
Three Rivers												
Quebec				1	4	4	1				10	22
St. John, N.B.												
Halifax												
Pictou												
Nova Scotia												
Charlottetown, P.E.I.												
Winnipeg, Man.				1	2	2	1				6	21
Saskatoon, Sask.												
Calgary, Alta.												
Nelson												
Vancouver												
British Columbia												
Dawson, Yukon												
Totals		1	1	5	10	10	6	1	1		35	89

APPENDIX E.

STATEMENT of Gas Inspection Expenditures and Revenues for the Fiscal Year ended March 31, 1913.

Districts.	Inspectors and Assistants.	Expenditures.						Revenues.
		Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.	Total.	
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Barrie.....	Shanacy, M.	100 00					100 00	136 00
Belleville.....	Johnson, Wm	304 15	65 00	181 25	28 50	4 50	583 40	156 20
Berlin.....	Powell, J. B.	200 00	30 00		66 90	4 15	301 65	538 60
Brockville.....	Fraser, H							163 20
Cobourg.....	Bickle, J. W	100 00	24 00		39 25	75 59	238 84	173 60
Cornwall.....								94 20
Guelph.....	Broadfoot, S.	300 00	20 00			18 03	338 03	636 00
	McPhie, W. H.							
Hamilton.....	Lutz, H.	2,057 71	176 61	120 00	687 38	179 78	3,221 48	7,638 70
	Murphy, F. C.							
	Dennis, W. A.							
Kingston.....								470 00
Listowel.....	Male, T.	100 00	9 00	58 50			167 50	33 00
London.....	Nash, A. F.	2,499 96	196 98		402 50	41 95	3,141 39	3,821 70
	Skelton, A. R.							
Napanee.....	Johnson, Wm.							18 00
	Roche, H. G.							
Ottawa.....	Roche, W. J.	4,166 80	1,025 00	420 00		126 26	5,678 06	1,810 10
	Bond, M. B.							
	Couvrette, A. A.							
Owen Sound.....	Graham, W. J.	200 00					200 00	242 20
Peterborough.....	Rerk, T.	150 00					150 00	317 20
Sarnia.....	Thrasher, W. A.	200 00				3 75	203 75	414 50
Stratford.....	Rennie, Geo.	200 00	12 00			7 95	219 95	157 40
	Stiver, J. L.							
	Pape, J.							
	Reesor, M. W.							
Toronto.....	Renohan, M. J.	7,969 67	1,437 81			133 51	9,540 99	15,013 20
	Ogden, G. J.							
	Clark, H. M.							
	Johnstone, S. F.							
	Wilson, H. H.							
	Mills, A. E.							
Woodstock.....	Orr, H. N.	200 00	12 00			1 00	213 00	319 20
Ontario.....		18,688 29	3,008 40	779 75	1,224 53	596 47	24,297 44	32,173 20
	Aubin, A.							
	O'Flaherty, M. J.							
Montreal.....	Aubin, C.	5,216 50	66 00	240 00	50 00	148 63	5,721 13	17,118 70
	Mann, W.							
	Boucher, A.							
	Brandford, E. B.							
Quebec.....	LeVasseur, N.	1,679 05	60 00	108 33		679 25	2,526 63	685 80
	Beland, E.							
Sherbrooke.....	Simpson, A. F.	349 92					349 92	144 00
	Bowen, F. C.							
St. Hyacinthe.....	Benoit, L. V.	100 00					100 00	102 00
Quebec.....		7,345 47	126 00	348 33	50 00	827 88	8,697 68	18,050 50

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APPENDIX E—*Concluded.*

STATEMENT of Gas Inspection Expenditures and Revenues for the Fiscal Year ended March 31, 1913—*Concluded.*

Districts.	Inspectors (Total) Assistants.	Expenditures					Revenues
		Salaries	Board Assistants	Rent	Traveling Expenses	Supplies	
		\$	\$	\$	\$	\$	\$
Fredrikton, St. John	1 I. 1 A.	1,000.00	—	—	200.00	700.00	1,000.00
	N. S.	2,400.00	—	—	250.00	7,000.00	9,650.00
Halifax, N. S.	1 I. 1 W. S. W. 1 M. S. H. D.	1,500.00	—	—	200.00	1,000.00	1,500.00
Charlottetown, P. E. I.	1 I. 1 A.	1,000.00	—	—	—	1,000.00	1,000.00
Winnipeg, Man.	1 H. C. M. R. 1 E. V. G. M. I. P. 1 R. W. A. 1 W. L. B. T. S.	1,450.00	—	—	—	1,450.00	1,450.00
Calgary, Alta.	Kyle, W.	—	400.00	—	600.00	2,800.00	4,000.00
Nanaimo	Straw, J.	500.00	—	—	—	500.00	500.00
New Westminster	Wolfeenden, W.	100.00	—	—	—	100.00	100.00
Vancouver	Scott, Jas.	—	32.00	—	—	40.00	111.00
Victoria	Jones, R. Dresser, F.	1,000.00	—	—	—	1,000.00	1,000.00
	British Columbia	1,300.00	32.00	—	—	70.00	1,442.00
Eastern Dominion Inspection					258.85	2.24	291.09
Western " "					18.30	24.45	42.80
General Contingencies					—	324.01	824.01
Printing					—	4,111.78	4,111.78
Stationery					—	1,971.61	1,971.61
Grand Totals		35,025.58	3,747.00	1,000.00	1,060.93	7,877.64	50,253.49

ISLAND REVENUE DEPARTMENT,
OTTAWA, JUNE 1, 1913.

W. HIMSWORTH,
Deputy Minister.

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest.	Average	No. of times below stan- dard.	No. of tests.	Highest	Lowest.	Average	No of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Barrie—										
April			17 37	0	1					
May			17 36	0	1					
June			18 70	0	1					
July			18 93	0	1					
August			20 00	0	1					
September			18 34	0	1					
October			19 38	0	1					
November			19 78	0	1					
December			17 77	0	1					
January			18 68	0	1					
February			17 63	0	1					
March			18 85	0	1					
				0	12					
Belleville—										
April ..	18 06	17 86	17 96	0	2					
May	18 23	17 27	17 25	0	2					
June										
July	17 79	17 59	17 69	0	2					
August	17 86	16 39	17 63	0	2					
September	18 00	17 10	17 55	0	2					
October										
November										
December										
January										
February										
March										
				0	10					
Deseronto—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Berlin—										
April			19 81	0	1					
May			20 81	0	1					
June			19 22	0	1					
July			14 85	0	1					
August			17 82	0	1					
September			19 45	0	1					
October			17 00	0	1					
November			18 25	0	1					
December			18 89	0	1					
January			15 90	0	1					
February			17 58	0	1					
March			17 65	0	1					
				0	12					

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grams.				
	Highest Candles	Lowest Candles	Average Candles	No. of times below stan- dard.	No. of tests.	Highest Grains.	Lowest Grains.	Average Grains	No. of times in excess of allowance.	No. of tests.
Brockville—										
April			18.30	0	1					
May	18.50	18.30	18.40	0	1					
June			18.00	0	1					
July	18.20	18.00	18.10	0	1					
August			23.11	0	1					
September	23.14	19.00	21.07	0	1					
October			19.40	0	1					
November			21.00	0	1					
December	22.63	19.40	19.20	0	1					
January	19.20	19.00	19.10	0	2					
February			19.00	0	1					
March	19.00	18.80	18.90	0	2					
				0	14					
Cobourg										
April			18.21	0	1					
May			17.56	0	1					
June			17.73	0	1					
July			16.80	0	1					
August			17.98	0	1					
September			16.49	0	1					
October			16.26	0	1					
November			18.25	0	1					
December			17.05	0	1					
January			17.18	0	1					
February			17.21	0	1					
March			17.10	0	1					
				0	12					
Port Hope—										
April			19.48	0	1					
May			19.24	0	1					
June			19.52	0	1					
July			19.02	0	1					
August			18.53	0	1					
September			19.08	0	1					
October			18.58	0	1					
November			18.41	0	1					
December			17.37	0	1					
January			18.49	0	1					
February										
March			17.97	0	1					
				0	11					
Cornwall—										
April			18.00	0	1					
May			18.40	0	1					
June	18.80	18.00	18.40	0	3					
July			18.00	0	1					
August			18.20	0	1					
September	19.60	18.00	18.60	0	3					
October			18.00	0	1					
November			18.30	0	1					
December	20.40	18.00	18.90	0	3					
January			19.00	0	1					
February										
March	19.00	18.60	18.80	0	2					
				0	18					

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F—Continued.

Inspected during the Year ended March 31, 1913—Continued.

Ammonia per 100 Cubic Feet Allowance—4 Grains.			Sulphuretted Hydrogen.				Remarks.
Highest Grams.	Lowest Grams.	Average Grams.	No. of times absent.	No. of times present.	No. of tests.		
			2	0	2		
			2	0	2		
			1	0	1		
			1	0	1		
			1	0	1		
			1	0	1		
			1	0	1		
			1	0	1		
			1	0	1		
			1	0	1		
			1	0	1		
			1	0	1		
			1	0	1		
			1	0	1		
			1	0	1		
			1	0	1		
			1	0	1		
			14	0	14		
			2	0	2		
			2	0	2		
			2	0	2		
			1	0	1		
			1	0	1		
			1	0	1		
			1	0	1		
			1	0	1		
			1	0	1		
			1	0	1		
			1	0	1		
			1	0	1		
			15	0	15		
			4	0	4		
			4	0	4		
			5	0	5		
			4	0	4		
			4	0	4		
			5	0	5		
			4	0	4		
			4	0	4		
			5	0	5		
			4	0	4		
			4	0	4		
			5	0	5		
			4	0	4		
			4	0	4		
			5	0	5		
			4	0	4		
			4	0	4		
			5	0	5		
			52	0	52		
			4	0	4		
			4	0	4		
			5	0	5		
			4	0	4		
			4	0	4		
			5	0	5		
			4	0	4		
			4	0	4		
			5	0	5		
			4	0	4		
			4	0	4		
			5	0	5		
			52	0	52		

APPENDIX

RETURN of the Illuminated Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest	Average	No. of times below stan- dard.	No. of tests.	Highest	Lowest	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Candles	Candles	Candles		
Ontario Pipe Line—										
Hamilton—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Sterling Nat. Gas Co.,										
Port Colborne—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Kingston—										
April			18.40	0	1					
May			18.60	0	1					
June			18.50	0	1					
July			18.20	0	1					
August			18.40	0	1					
September			18.70	0	1					
October			18.90	0	1					
November			19.00	6	1					
December			19.60	0	1					
January			19.40	0	1					
February			18.90	0	1					
March			18.70	0	1					
				0	12					
Listowel—										
April			18.04	0	1					
May			20.32	0	1					
June			17.64	0	1					
July			18.78	0	1					
August			19.04	0	1					
September			17.82	0	1					
October			17.88	0	1					
November			16.45	0	1					
December			17.08	0	1					
January			17.62	0	1					
February			17.36	0	1					
March			17.36	0	1					
				0	12					

SESSIONAL PAPER No. 13

F.—Continued.

Inspected during the Year ended March 31, 1913—Continued.

Ammonia per 100 Cubic Feet. Allowance—4 Grains.			Sulphuretted Hydrogen.				Remarks.
Highest	Lowest.	Average					
Grains.	Grains.	Grains	Times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.
					4	0	4
					4	0	4
					5	6	5
					4	0	4
					4	0	4
					5	0	5
					4	0	4
					1	0	1
					5	0	5
					4	0	4
					4	0	4
					5	0	5
					52	0	52
					0	1	1
					0	1	1
					1	0	1
					1	0	1
					1	0	1
					1	0	1
					1	0	1
					1	0	1
					1	0	1
					1	0	1
					1	0	1
					10	2	12
					1	0	1
					1	0	1
					1	0	1
					1	0	1
					1	0	1
					1	0	1
					1	0	1
					1	6	1
					1	5	1
					1	0	1
					1	9	1
					12	0	12
					1	0	1
					1	0	1
					1	0	1
					1	0	1
					1	0	1
					1	0	1
					1	0	1
					1	0	1
					1	0	1
					1	0	1
					1	0	1
					1	0	1
					12	0	12

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest	Average	No. of times below stan- dard.	No. of tests.	Highest	Lowest	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
London—										
April	19 93	16 58	18 30	0	8					
May	18 95	16 04	17 45	0	8					
June	19 65	16 16	17 95	0	10					
July	19 23	16 83	18 26	0	8					
August	19 62	18 17	18 43	0	10					
September	19 30	18 41	18 79	0	8					
October	19 24	18 48	18 71	0	8					
November	19 89	17 79	19 03	0	10					
December	18 84	16 35	17 94	0	8					
January	20 76	17 20	19 25	0	8					
February	20 72	16 78	18 53	0	8					
March	20 28	17 10	18 56	0	10					
				0	104					
Chatham—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Ingersoll—										
April			20 04	0	1					
May			20 29	0	1					
June			18 81	0	1					
July			16 20	0	1					
August			18 84	0	1					
September			16 43	0	1					
October			17 71	0	1					
November			20 39	0	1					
December			21 70	0	1					
January			17 60	0	1					
February			17 84	0	1					
March			19 03	0	1					
				0	12					
St. Thomas—										
April	16 82	16 80	16 81	0	2					
May	20 43	19 03	19 73	0	2					
June	20 70	18 39	19 54	0	2					
July	20 19	19 03	19 61	0	2					
August	21 45	18 89	20 17	0	2					
September	20 45	19 92	20 18	0	2					
October	20 86	19 35	20 10	0	2					
November	22 92	20 58	21 75	0	2					
December	19 77	19 02	19 39	0	2					
January	19 60	18 43	19 01	0	2					
February	18 79	18 17	18 48	0	2					
March	19 45	17 96	18 70	0	2					
				0	21					

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest.	Average	No. of times below stan- dard.	No. of Tests	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Windsor—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Napanee—										
April			18.23	0	1					
May			19.90	0	1					
June			19.40	0	1					
July			18.90	0	1					
August										
September			14.35	0	1					
October										
November										
December										
January										
February										
March										
Ottawa—				0	5					
April	16.29	15.55	15.98	4	8	14.39	14.11	14.25	0	2
May	16.25	15.82	16.02	3	8	14.54	14.39	14.46	0	2
June	16.33	15.86	16.09	1	10	14.59	14.47	14.53	0	2
July	16.28	15.85	16.16	1	8	14.64	14.36	14.50	0	2
August	16.31	15.83	16.06	3	8	14.81	14.71	14.76	0	2
September	16.29	15.68	15.99	5	10	14.41	14.30	14.35	0	2
October	16.24	15.86	16.04	3	8	14.97	14.37	14.60	0	2
November	16.27	15.82	16.05	3	8	14.70	14.01	14.35	0	2
December	16.33	15.55	16.08	1	10	14.93	14.38	14.65	0	2
January	16.31	15.76	16.06	3	8	14.52	14.36	14.44	0	2
February	16.29	15.89	16.05	3	8	14.39	14.19	14.29	0	2
March	16.27	15.82	16.02	4	10	14.81	14.47	14.64	0	2
Owen Sound—				34	104				0	24
April			16.66	0	1					
May			17.00	0	1					
June			16.27	0	1					
July			16.40	0	1					
August			16.10	0	1					
September			16.26	0	1					
October			16.65	0	1					
November			16.33	0	1					
December			16.61	0	1					
January			16.05	0	1					
February			16.30	0	1					
March			16.25	0	1					
				0	12					

RETURN of Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Peterborough—										
April	18 60	18 40	18 50	0	2					
May	19 20	19 00	19 10	0	2					
June	20 00	19 60	19 80	0	2					
July	19 80	19 60	19 70	0	2					
August	20 00	20 00	20 00	0	2					
September	20 20	19 60	19 90	0	2					
October	19 20	19 00	19 10	0	2					
November	19 10	19 00	19 05	0	2					
December	20 00	19 50	19 75	0	2					
January	19 00	18 40	18 70	0	2					
February	18 80	18 40	18 60	0	2					
March	18 80	18 20	18 50	0	2					
				0	24					
Sarnia—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Stratford—										
April			16 70	0	1					
May			17 09	0	1					
June			18 02	0	1					
July			18 90	0	1					
August			18 03	0	1					
September			16 98	0	1					
October			18 01	0	1					
November			17 87	0	1					
December			19 00	0	1					
January			17 77	0	1					
February			17 12	0	1					
March			17 38	0	1					
				0	12					
Toronto—										
April	17 29	16 50	16 79	0	10	13 89	13 39	13 64	0	2
May	17 36	16 49	16 92	0	8	16 75	14 88	15 81	0	2
June	17 38	16 32	16 85	0	8	14 82	14 60	14 71	0	2
July	17 57	16 06	16 85	0	10	15 51	14 22	14 88	0	2
August	17 67	16 49	16 98	0	8	14 47	12 70	13 58	0	2
September	17 38	16 40	16 86	0	10	20 83	17 56	19 19	0	2
October	17 46	16 63	16 94	0	8			17 51	0	1
November	17 15	16 45	16 82	0	8	20 24	17 42	18 83	0	2
December	17 15	16 49	16 88	0	10	16 91	14 81	15 86	0	2
January	18 82	16 46	17 51	0	8	19 46	14 85	17 15	0	2
February	18 72	17 89	18 25	0	8	21 27	19 02	21 64	0	2
March	18 64	17 56	18 03	0	10	20 93	20 92	20 92	0	2
				0	106				0	23

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest.	Average	No. of times below stan- dard.	No. of tests.	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains	Grains.		
Woodstock—										
April			17 00	0	1					
May			17 04	0	1					
June			17 41	0	1					
July			17 11	0	1					
August			17 38	0	1					
September			17 07	0	1					
October			17 34	0	1					
November			17 78	0	1					
December			17 05	0	1					
January			17 19	0	1					
February			17 34	0	1					
March			17 51	0	1					
				0	12					
Montreal—										
April	16 65	16 28	16 51	0	9	2 69	2 61	2 65	0	2
May	17 00	16 20	16 48	0	9	3 24	2 93	3 08	0	2
June	18 53	16 24	17 12	0	8	3 10	2 37	2 73	0	2
July	17 79	16 14	17 13	0	9	3 89	2 88	3 38	0	2
August	18 24	16 41	17 39	0	9	2 22	1 98	2 10	0	2
September	17 89	17 15	17 48	0	8	2 47	1 95	2 21	0	2
October	17 96	16 42	17 08	0	9	3 09	2 56	2 79	0	2
November	17 63	16 51	17 04	0	9	2 81	1 92	2 36	0	2
December	18 78	16 63	17 20	0	9	1 87	1 69	1 78	0	2
January	17 25	16 22	16 75	0	9	2 79	1 80	2 29	0	2
February	17 95	16 17	17 15	0	8	13 64	13 64	13 64	0	2
March	17 43	16 50	16 94	0	8	15 55	15 09	15 32	0	2
				0	104				0	24
Quebec—										
April	17 84	17 26	17 55	0	2	17 91	16 62	17 26	0	2
May	17 66	17 24	17 45	0	2	20 58	15 62	18 10	0	2
June	17 88	17 32	17 60	0	2	17 75	15 47	16 61	0	2
July	17 98	17 10	17 54	0	2	20 29	14 07	17 18	0	2
August	18 06	17 79	17 92	0	2	21 02	18 38	19 70	0	2
September	17 82	17 69	17 75	0	2	19 33	15 74	17 53	0	2
October										
November										
December										
January										
February						18 68	14 33	16 50	0	2
March						19 99	16 99	18 49	0	2
				0	12				0	16
Sherbrooke—										
April										
May										
June										
July										
August										
September										
October			28 58	0	1					
November			31 76	0	1					
December			24 64	0	1					
January			25 78	0	1					
February			26 74	0	1					
March			35 56	0	1					
				0	6					

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest	Average	No. of times below stan- dard.	No. of tests.	Highest	Lowest	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains	Grains	Grains		
Halifax—										
April.....			17.58	0	1			16.47	0	1
May.....			17.55	0	1			13.33	0	1
June.....			17.08	0	1			8.19	0	1
July.....			16.99	0	1			12.67	0	1
August.....			17.09	0	1			12.60	0	1
September.....			17.15	0	1			14.59	0	1
October.....			16.58	0	1			12.70	0	1
November.....			16.91	0	1			11.87	0	1
December.....			17.00	0	1			5.49	0	1
January.....			17.48	0	1			17.70	0	1
February.....			17.45	0	1			8.92	0	1
March.....			16.46	0	1			9.70	0	1
				0	12				0	12
Yarmouth—										
April.....			15.78	1	1					
May.....			15.42	1	1					
June.....			15.89	1	1					
July.....			17.00	0	1					
August.....			17.12	0	1					
September.....			17.25	0	1					
October.....			15.82	1	1					
November.....			15.85	1	1					
December.....			17.07	0	1					
January.....			17.30	0	1					
February.....			17.16	0	1					
March.....			17.32	0	1					
					5					12
Charlottetown—										
April.....	16.02	14.60	15.31	2	3					
May.....			19.97	0	1					
June.....			18.94	0	1					
July.....			17.00	0	1					
August.....			15.51	1	1					
September.....			15.53	1	1					
October.....			16.00	0	1					
November.....			14.23	1	1					
December.....	15.80	14.06	14.93	2	2					
January.....			15.87	0	1					
February.....			16.04	0	1					
March.....			14.48	1	1					
					8					15
Winnipeg—										
April.....	17.20	15.43	16.39	3	8					
May.....	16.20	17.77	15.45	4	10					
June.....	18.38	15.56	16.59	1	8					
July.....	16.27	14.60	15.52	6	8					
August.....	18.63	15.12	16.67	3	10					
September.....	17.90	15.16	16.67	1	8					
October.....	19.58	16.20	17.42	0	10					
November.....	17.75	15.47	16.95	1	8					
December.....	19.36	16.40	17.07	0	8					
January.....	16.46	12.81	13.98	9	10					
February.....	14.80	12.50	14.09	8	8					
March.....	15.04	11.45	13.55	8	8					
				44	104					

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.						
	Highest	Lowest.		Average	No. of times below stan- dard.	No. of tests.	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.	
	Candles	Candles	Candles				Grains.	Grains	Grains.			
Calgary—												
April												
May												
June												
July												
August												
September												
October												
November												
December												
January												
February												
March												
Nanaimo—												
April			16 91	0	1							
May			17 00	0	1							
June			16 20	9	1							
July			18 01	0	1							
August			16 61	0	1							
September			17 49	0	1							
October			16 46	0	1							
November			16 27	0	1							
December			16 19	0	1							
January			16 12	0	1							
February			17 70	0	1							
March			16 74	0	1							
				0	12							
New Westminster—												
April			18 71	0	1							
May			18 54	0	1							
June			18 63	0	1							
July			18 51	0	1							
August			18 71	0	1							
September			18 46	0	1							
October			18 34	0	1							
November			18 51	0	1							
December			18 64	0	1							
January			22 80	0	1							
February			22 50	0	1							
March			21 57	0	1							
				0	12							
Vancouver—												
April	17 80	15 30	16 46	3	8							
May	17 80	12 12	15 95	3	10							
June	16 90	16 00	16 47	0	8							
July	17 90	15 70	16 86	1	8							
August	16 74	16 54	16 54	0	2							
September												
October												
November												
December												
January												
February	15 13	13 47	14 53	8	8							
March	19 40	15 30	16 49	2	8							
				17	52							

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—4 Grains.				
	Highest	Lowest	Average	No. of times below stan- dard.	No. of tests.	Highest	Lowest	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Victoria—										
April	15 93	15 51	15 72	2	2					
May			17 38	0	1					
June			16 07	0	1					
July	16 20	15 94	16 07	1	2					
August			Nil.							
September	16 00	15 59	15 79	1	2					
October										
November										
December										
January										
February										
March										
				4	8					

INLAND REVENUE DEPARTMENT,
OTTAWA, June, 1, 1913.

SESSIONAL PAPER No. 13

F.—*Concluded.*

Inspected during the Year ended March 31, 1913.

Ammonia per 100 Cubic Feet. Allowance— 4 Grains.			Sulphuretted Hydrogen.				Remarks.	
Highest	Lowest.	Average.	No. of times absent.		No. of times present.			
Grains	Grains	Grains	Times in excess of allowance.	No. of tests	No. of times absent.	No. of times present.	No. of tests.	
					2	0	2	
					1	0	1	
					1	0	1	
					2	0	2	
					2	0	2	
					8	0	8	

W. HILSWORTH,
Deputy Minister

APPENDIX G.

STATEMENT showing the number of Gas Meters Presented for Verification, Verified, Rejected and Verified after first Rejection, for the Fiscal Year ended March 31, 1913.

Districts.	Presented for Veri- fication.	Kind.		Verified as coming within the error tolerated by law.			Rejected.			Verified after first Rejection.			Totals.	
		Wet.	Dry.	Correct.	Fast.	Slow.	Unsound.	Fast.	Slow.	Correct.	Fast.	Slow.	Verified.	Rejected.
Barrie.....	147	147	21	47	61	1	7	1	1	5	3	138	9	
Belleville.....	169	169	70	35	64							169		
Berlin.....	738	738	89	98	517	3	9	22				704	34	
Brockville.....	92	92	56	4	32							92		
Cobourg.....	168	168	8	60	96			4				164	4	
Cornwall.....	95	95	26	10	43	2	1	13				79	16	
Guelph.....	748	748		129	583	4	20	4		2	6	720	28	
Hamilton.....	9,912	9,912	1,511	1,525	6,874		2					9,910	2	
Kingston.....	482	482	156	17	307			1	1			481	1	
Listowel.....														
London.....	4,009	4,009	888	792	2,261		58	10				3,941	68	
Napanee.....														
Ottawa.....	1,808	1,808	425	464	918		1					1,807	1	
Owen Sound.....	219	219	163	7	10				37		2	219		
Peterborough.....	334	334	80	34	220							334		
Sarnia.....	511	514	356	13	143		1	1				512	2	
Stratford.....	81	81	15	17	45	2	2					77	4	
Toronto.....	23,215	23,215	5,581	4,278	13,237		76	43				23,096	119	
Woodstock.....	348	348	20	104	224							348		
Montreal.....	27,002	27,002	3,365	9,423	13,721	108	283	102				26,509	493	
Quebec.....	831	834	303	79	452							834		
Sherbrooke.....	190	190	94	39	57							190		
St. Hyacinthe.....	110	110	77	18	15							110		
Fredericton.....														
St. John.....	1,339	1,339	737	24	577				1			1,338	1	
Halifax.....	186	186	124	18	43				1			185	1	
Charlottetown.....	21	21	2	4	11	3	1					17	4	
Winnipeg.....	3,595	3,595	1,610	659	1,326							3,595		
Calgary.....	6,992	6,992	594	764	5,613	2	18				1	6,972	20	
Nanaimo.....	132	132	74	11	47							132		
New Westminster.....	76	76	17	15	44							76		
Vancouver.....	3,770	3,770	1,087	999	1,593		42	32	6	3	8	3,696	74	
Victoria.....	910	910	241	283	386							910		
Totals.....	88,236	88,236	17,790	19,970	49,520	125	521	235	45	16	20	87,355	881	

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 13

APPENDIX H.

STATEMENT of Electric Light Expenditures and Revenues for the Fiscal Year ended March 31, 1913.

Districts.	Inspectors and Assistants.	Expenditures.						Revenues.	
		Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.	Total.		
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Bellville	Fraser, H. Johnston, C. W.	1,036 25	20 00		434 30	17 12	1,507 67	1,888 90	
Fort William	Little, E.	245 16	2 00		87 65	49 51	384 32	68 20	
Hamilton	Lutz, H.		250 25		228 19	195 53	673 88	4,330 05	
London	Nash, A. F.		62 49		371 90	37 35	471 74	3,315 80	
Ottawa	Roche, H. G.				681 80		681 80	3,772 55	
Toronto	Stiver, J. L.				947 45	53 74	1,901 19	14,445 60	
	<i>Ontario</i>	1,281 41	314 74		2,751 20	353 25	4,720 60	27,830 10	
Montreal	Anblin, A.		1,956 91		72 45	16 53	1,165 89	9,785 30	
Quebec	LeVasseur, N.		60 00	161 25	23 90	250 06	495 21	781 80	
Sherbrooke	Simpson, A. F.				143 41	14 45	162 86	502 10	
St. Hyacinthe	Provost, F. E.	300 00			91 50	1 90	393 40	258 75	
Three Rivers	Robitaille, G. W.	500 00		120 00	100 00	15 02	735 02	147 90	
	<i>Quebec</i>	800 00	1,116 91	281 25	431 26	322 96	2,952 38	11,475 85	
St. John, N. B.	Wilson, J. E.				202 35	21 15	223 50	1,227 75	
Halifax, N. S.	Toole, J.		25 00		419 74	86 38	531 12	1,679 79	
Charlottetown, P. E. I.	Bell, J. H.		40 00		39 40	45 32	115 72	115 35	
Winnipeg, Man.	Hamilton, R.		2,135 26	325 00	571 60	196 02	3,227 88	12,250 00	
Regina, Sask.	Hunter, W. M.	1,300 00			1,104 45	68 97	2,903 42	2,274 90	
Calgary	Kyle, W. P.	1,800 00	22 00		280 80	110 87	2,213 67	3,833 55	
Edmonton	Jones, Bruce Roe, E. A.	1,500 00			154 55	94 84	1,749 39	2,208 35	
	<i>Alberta</i>	3,300 00	22 00		435 35	205 71	3,963 06	6,041 90	
Vancouver	Stott, J. Templeton, W. A.	4,699 92	849 96		263 10	365 49	6,218 47	9,096 30	
Victoria	Power, O. S. Sonder, G. T. Dresser, F.				17 00	104 00	38 45	159 45	2,241 45
	<i>British Columbia</i>	4,699 92	866 96		407 10	433 94	6,407 92	11,337 75	
Dawson, Yukon	McDonald, J. E.	500 00						500 00	
Chief Electric Engineer			313 00		149 87	838 39	1,292 26		
Inspector, Eastern Dominion		2,474 98			186 85		2,661 83		
Inspector, Western Dominion		2,474 98			628 35	363 43	3,466 76		
Kinsman, E. A.		331 15					331 15		

APPENDIX H—*Concluded.*

STATEMENT of Electric Light Expenditures and Revenues for the Fiscal Year ended March 31, 1913.

Districts.	Inspectors and Assistants.	Expenditures.						Revenues.
		Salaries.	Special Assistance	Rent.	Travelling Expenses.	Sundries.	Total.	
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
General Contingencies.....						8,700 97	8,700 97	
Printing.....						223 68	223 68	
Stationery.....						246 47	246 47	
International Electro-technical Commission.....						244 16	244 16	
Grand Totals..		17,162 44	4,853 87	606 25	7,309 52	12,780 80	42,712 88	74,833 80

W. HIMSWORTH,

Deputy Minister.

INLAND REVENUE DEPARTMENT,

OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 13

APPENDIX I.

STATEMENT showing the number of Electric Meters Presented for Verification, Verified, Rejected and Verified after first Rejection, for the fiscal year ended March 31, 1913.

Districts.	Presented for Verification.	Verified as coming within the error tolerated by law.			Rejected ¹ .			Verified after first Rejection.			Totals.	
		Correct.	Fast.	Slow.	Unsound.	Fast.	Slow.	Correct.	Fast.	Slow.	Verified.	Rejected.
Bellefleur	3,063	1,625	826	611			1				3,062	1
Fort William	111	38	31	42							111	
Hamilton	7,991	4,140	1,198	1,752			1				7,090	1
London	5,189	1,838	1,827	1,505	1	4	5				5,179	10
Ottawa	6,112	754	3,650	1,691	5	2	10				6,095	17
Toronto	21,448	10,358	5,909	5,162	1	4	11	2	1	1	21,433	15
Montreal	16,130	12,592	2,260	1,278							16,130	
Quebec	1,303	1,168	20	111				2			1,301	2
Sherbrooke	800	294	219	287							800	
St. Hyacinthe	395	127	197	71							395	
Three Rivers	245	187	28	30							245	
St. John	2,029	761	798	448		7	6				2,097	13
Halifax	2,752	1,658	803	215	68	1	7				2,676	76
Charlottetown	192	79	59	60	3						189	3
Winnipeg	19,279	4,197	9,831	4,941	2	1	2		2		19,274	5
Regina	3,738	1,496	1,663	569	5	7	7				3,719	19
Calgary	6,265	1,668	3,155	1,432		6	1	2		1	6,258	7
Edmonton	4,565	1,768	2,555	242							4,565	
Vancouver	14,414	5,425	7,212	1,777	1	12	5	1		1	14,396	18
Victoria	3,536	1,756	1,318	460		1	1				3,534	2
Totals	118,629	52,229	43,573	22,655	80	45	59	7	3	3	118,459	184

W. HUMSWORTH,

*Deputy Minister.*INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

APPENDIX J.

STATEMENT showing Amount of Electrical Energy, Gas or Fluid generated or produced for Export and for Consumption in Canada, under the Authority of the Electricity and Fluid Exportation Act, for the Year ending March 31, 1913.

Name of Contractor and Place of Business.	Month.	Units Produced for Export.		Units Produced for use in Canada.		Total Output of Generating Station or other Source.		
		K. W. Hours.	H. P. Years.	K. W. Hours.	H. P. Years.	K. W. Hours.	H. P. Years.	
	1912.							
Ontario & Minnesota Power Co., Ltd.—Fort Frances, Ont.	April	1,599,870	244 83	79,890	12 25	1,679,760	257 08	
	May	1,699,820	260 11	66,953	10 25	1,766,773	270 36	
	June	1,600,220	246 25	58,173	8 90	1,658,393	255 15	
	July	1,678,650	256 87	122,295	18 71	1,800,945	275 58	
	August	1,835,260	280 84	138,138	21 14	1,973,398	301 98	
	September	1,748,020	267 49	100,420	15 37	1,848,440	282 86	
	October	1,914,300	292 93	113,998	17 44	2,028,298	310 37	
	November	1,858,730	299 73	105,102	16 08	1,963,832	315 81	
	December	1,844,000	282 18	80,830	12 37	1,924,830	294 55	
		1913.						
		January	1,951,950	298 69	74,543	11 41	2,026,493	310 10
		February	1,715,050	262 42	64,376	9 85	1,779,426	272 27
	March	1,778,650	341 86	89,795	13 74	1,868,445	355 60	
	Totals	21,233,520	3,334 20	1,094,513	167 51	22,328,033	3,501 71	
	1912.							
Canadian Niagara Power Co.—Niagara Falls, Ont.	April	27,668,710	4,233 95	1,077,290	164 85	28,746,000	4,398 80	
	May	27,136,330	4,152 49	876,676	134 15	28,013,000	4,286 64	
	June	26,209,800	4,010 71	520,260	79 60	26,730,000	4,090 31	
	July	26,897,890	4,116 00	522,110	79 90	27,420,000	4,195 90	
	August	26,171,310	4,004 82	923,690	141 34	27,095,000	4,146 16	
	September	25,917,620	3,965 99	809,380	123 86	26,727,000	4,089 85	
	October	28,248,330	4,321 65	802,670	123 83	29,051,000	4,445 48	
	November	26,948,602	4,123 76	1,014,648	155 26	27,963,250	4,279 02	
	December	27,242,730	4,168 77	926,279	141 74	28,169,000	4,310 51	
		1913.						
		January	27,623,300	4,227 00	1,174,700	179 76	28,798,000	4,406 76
		February	24,898,120	3,809 99	1,151,880	176 26	26,050,000	3,986 25
	March	30,813,100	4,715 12	1,187,480	181 69	32,000,580	4,896 81	
	Totals	325,775,842	49,850 25	10,986,988	1,682 24	336,762,830	51,532 49	
	1912.							
Ontario Power Co. of Niagara Falls, Ont.	April	19,147,828	2,930 06	20,846,772	3,190 04	39,994,600	6,120 10	
	May	18,236,327	2,790 57	19,146,173	2,929 82	37,382,500	5,720 39	
	June	18,649,309	2,853 71	17,776,691	2,720 31	36,426,000	5,574 02	
	July	20,432,174	3,127 60	21,295,026	3,257 53	41,727,200	6,385 13	
	August	21,621,672	3,308 62	22,228,728	3,401 51	43,850,400	6,710 13	
	September	20,291,237	3,105 03	22,455,313	3,436 20	42,746,550	6,541 23	
	October	22,339,396	3,418 44	25,850,204	3,955 68	48,189,600	7,374 12	
	November	21,729,341	3,325 09	26,593,659	3,969 45	48,323,000	7,394 54	
	December	23,016,906	3,522 12	27,319,902	4,180 58	50,336,808	7,702 70	
		1913.						
		January	22,882,158	3,501 50	28,190,942	4,314 17	51,073,100	7,815 67
		February	22,062,994	3,376 15	24,861,406	3,804 37	46,924,400	7,180 52
	March	23,877,238	3,653 77	28,384,162	4,343 43	52,261,400	7,997 20	
	Totals	254,286,580	38,912 66	284,950,978	43,503 09	530,237,558	82,515 75	

SESSIONAL PAPER No. 13

APPENDIX J. *Continued.*

STATEMENT showing amount of Electrical Energy, Gas, or Fluid generated or produced for export and for consumption in Canada, under the authority of the Electricity and Fluid Expectation Act, for the year ending March 31, 1913.

Name of Contractor and Place of Business.	Month.	Units Produced for Export.		Units Produced for use in Canada.		Total Output of Generating Station or other Source.		
		K.W. Hours.	H.P. Years.	K.W. Hours.	H.P. Years.	K.W. Hours.	H.P. Years.	
1912.								
Electrical Development Co., of Ontario, Niagara Falls, Ont.	April...	1,096,800	47.88	12,083,000	1,849.30	13,179,800	2,323.18	
	May...	2,299,700	97.21	11,998,007	1,853.97	14,297,707	2,293.18	
	June...	2,403,400	101.75	11,195,478	1,713.16	13,598,878	2,080.94	
	July...	2,313,100	95.55	11,281,168	1,726.28	13,594,268	2,084.83	
	August...	2,177,500	89.21	11,940,718	1,827.21	14,118,218	2,160.42	
	September...	2,539,400	105.29	12,111,045	1,873.27	14,650,445	2,241.86	
	October...	4,800,800	198.63	13,102,587	2,003.00	17,903,387	2,729.63	
	November...	6,541,400	269.94	13,918,944	2,139.92	20,460,344	3,130.86	
	December...	7,787,100	319.61	13,465,796	2,165.63	21,252,896	3,358.24	
	Totals...		36,094,200	1,491.31	133,773,908	21,837.38	179,867,408	28,218.90
	1913.							
	January...		8,118,800	336.96	14,086,490	2,191.26	22,205,390	3,400.22
February...		8,730,500	353.95	13,984,588	2,139.97	22,715,088	3,479.00	
March...		4,046,000	161.57	13,793,490	2,097.42	17,839,490	2,716.54	
Totals...		20,895,300	852.48	41,864,568	6,428.65	62,759,858	9,595.76	
1912.								
Maine and New Brunswick Electric Power Co., of Arundel, N.B.	April...	165,434	6.92	4,296	0.06	171,730	7.98	
	May...	150,144	6.24	4,294	0.06	154,438	6.30	
	June...	167,300	7.00	4,564	0.06	171,864	7.06	
	July...	172,000	7.11	4,571	0.06	176,571	7.17	
	August...	156,000	6.50	4,300	0.06	160,300	6.56	
	September...	175,000	7.28	4,500	0.06	179,500	7.34	
	October...	213,300	8.76	4,674	0.06	217,974	8.82	
	November...	246,500	10.02	7,156	0.09	253,656	10.11	
	December...	241,800	9.95	7,695	0.08	249,495	9.93	
	Totals...		2,074,400	86.85	53,070	0.65	2,127,470	87.50
	1913.							
	January...		233,520	9.53	7,180	0.09	240,700	9.62
February...		210,743	8.52	5,557	0.07	216,299	8.59	
March...		219,000	8.81	5,667	0.07	224,667	8.88	
Totals...		663,263	26.86	18,399	0.23	681,662	27.09	
1912.								
British Columbia Electric Railway Co., Vancouver, B.C.	April...	15,480	0.63	8,600,400	1,336.06	8,615,880	1,336.69	
	May...	16,308	0.67	8,878,125	1,338.76	8,894,433	1,339.43	
	June...	13,530	0.56	8,300,342	1,259.14	8,313,872	1,259.70	
	July...	15,520	0.64	8,980,830	1,356.28	8,996,350	1,356.92	
	August...	22,590	0.93	9,556,223	1,433.61	9,578,813	1,434.54	
	September...	20,730	0.85	9,536,000	1,439.34	9,556,730	1,439.19	
	October...	26,240	1.07	10,227,108	1,531.19	10,253,348	1,532.26	
	November...	33,905	1.39	11,268,285	1,713.13	11,302,190	1,714.52	
	December...	33,900	1.39	11,712,100	1,732.22	11,746,000	1,733.61	
	Totals...		282,383	11.53	120,789,188	18,477.83	121,071,571	18,519.14
	1913.							
	January...		33,440	1.37	11,746,992	1,737.56	11,780,432	1,738.93
February...		26,020	1.06	10,383,391	1,588.90	10,409,411	1,590.88	
March...		26,920	1.09	10,658,684	1,616.93	10,685,604	1,617.92	
Totals...		86,380	3.52	32,789,067	4,943.39	32,875,647	4,949.73	

APPENDIX J—Continued.

STATEMENT showing amount of Electrical Energy, Gas, or Fluid generated or produced for export and for consumption in Canada, under the authority of the Electricity and Fluid Exportation Act, for the year ending March 31, 1913.

Name of Contractor and place of Business.	Month.	Units Produced for Export.		Units Produced for use in Canada.		Total Output of Generating Station or other Source.		
		K.W. Hours.	H.P. Years.	K.W. Hours.	H.P. Years.	K.W. Hours.	H.P. Years.	
	1912.							
Western Canada Power Co., Ltd., Vancouver, B.C.	April	8,544	1 31	904,431	138 40	912,975	139 71	
	May	12,984	1 90	1,311,561	200 70	1,324,545	202 60	
	June	13,920	2 13	1,573,010	240 71	1,586,930	242 84	
	July	8,112	1 24	1,614,257	247 02	1,622,369	248 26	
	August	6,192	0 95	1,842,926	282 02	1,849,118	282 97	
	September . .	100,000	15 30	1,841,951	281 96	1,941,951	297 26	
	October	100,000	15 30	2,017,009	308 65	2,117,009	325 95	
	November . . .	100,000	15 30	1,723,725	263 77	1,823,725	279 07	
	December . . .	100,000	15 30	1,811,065	277 13	1,911,065	292 43	
		1913.						
		January	431,975	66 40	1,155,218	177 60	1,587,193	243 90
		February	773,370	118 34	1,051,805	160 95	1,835,175	279 29
	March	1,604,596	245 54	1,344,604	205 76	2,949,200	451 30	
	Totals	3,259,693	498 80	18,191,562	2,784 87	21,461,255	3,285 67	

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 13

APPENDIX K

STATEMENT showing total amount of Electrical Energy expressed in Kilowatt Hours and Horse Power Years, Generated for Export and for Consumption in Canada, by the Hydro Electric Companies during the Fiscal Year ended March 31, 1913

Name of Contractor.	Place of Business.	Units Produced for Export.		Units Produced for use in Canada.		Total Output of Generating Station or other Source.	
		Kilowatt Hours.	Horse Power Years.	Kilowatt Hours.	Horse Power Years.	Kilowatt Hours.	Horse Power Years.
Ontario & Minnesota Power Co.	Fort Frances, Ont.	21,233,380	3,331.20	1,091,513	167.31	22,324,893	3,501.71
Canadian Niagara Power Co.	Niagara Falls, Ont.	325,773,842	49,830.25	10,980,988	1,682.24	336,754,830	51,512.49
Electrical Development Co.	"	57,034,200	8,421.51	1,867,732,908	28,857.39	1,924,767,108	282,278.90
Ontario Power Co.	"	254,286,580	38,042.66	284,950,378	43,303.09	539,236,958	82,515.75
* Electrical Distributing Co.	Windsor, Ont.						
* Sherbrooke Ry. & Power Co.	Sherbrooke, Que.						
Maine & New Brunswick Electric Power Co.	Grandbrook Falls, N. B.	2,371,446	362.89	63,070	9.66	2,434,516	372.55
British Columbia Electric Ry. Co.	Vancouver, B.C.	282,383	43.21	120,789,188	18,477.83	121,071,571	18,519.14
Western Canada Power Co.	"	3,259,033	498.80	18,191,062	2,784.87	21,450,095	3,283.67
* Cedars Rapids Power Co.	Sault Ste. Marie, Que.						
Totals		662,943,664	101,423.52	501,849,567	76,462.58	1,164,793,231	177,886.30

* These companies have not yet commenced to export.

ISLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HUMSWORTH,
Deputy Minister.



REPORTS, RETURNS AND STATISTICS
OF THE
INLAND REVENUES
OF THE
DOMINION OF CANADA

FOR THE FISCAL YEAR ENDED MARCH 31

1913

PART III

ADULTERATION OF FOOD

PRINTED BY ORDER OF PARLIAMENT



OTTAWA
PRINTED BY C. H. PARMELEE, PRINTER TO THE KING'S MOST
EXCELLENT MAJESTY
1914

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REPORT

OF THE

DEPUTY MINISTER OF INLAND REVENUE

To the Hon. W. B. NANTL, Minister of Inland Revenue.

SIR,—I have the honour to submit herewith a statement showing the work done by the Chief Analyst and staff at Ottawa for the year ending March 31, 1913.

Description.	Genuine.	Doubtful.	Adulterated.	Sold as Compound	Total.	Remarks.
Lard.....	262		2	1	268	3 contain water accidentally.
Butter.....	152	1	4		157	
Cider and Sweet Cider.....	35	1	29		69	2 not sold as a cider, 2 concentrated with sugar.
Baking Powders.....	115 up to standard strength.		35 below standard strength.		150	
Registered Stock Feeds.....	64 up to guarantee, 5 up to standard requirements.	1	22 below guarantee, 4 below standard requirements.		138	4 Cattle Medicines, 1 unregistered illegal.
Fertilizer Inspection.....	313		3		324	1 not a fertilizer, 7 specially considered.
Cocoas and Chocolate.....					252	
Fruit Jams.....				3	158	155 explained in Bulletin 244.
Vanilla Flavouring Extract.....	13		40 mixture	27 artificial	80	
Canned Tomatoes.....					140	
Cheese.....					141	
Ground Black Pepper.....	223	11	45	1	280	
Bottled Pickles.....					80	
Ground White Pepper.....	215	5	53		273	
Ground Cinnamon and Cassia.....	198 apparently genuine.	14	12		250	4 lost by mistake, 22 Ash abnormal.
Ground Cloves a study.....					141	
Turpentine sold as a drug.....	106	5	47		158	
Bran Shorts and Chop Feed.....	364		32		396	
Sweet Spirit of Nitre.....	41		32		73	
Olive Oil.....	34		2		36	
Milk Powders and Condensed Milk.....					30	

* 35 below standard strength. † 22 below guarantee. ‡ 4 below standard requirements.

4 GEORGE V., A. 1914

Since the issue of the Report of last year, the Advisory Board, of which the Chief Analyst is Chairman, have devoted considerable time and work on the establishing of further standards for food products and the following have been duly legalized under the provisions of Section 26 of the Act.

Edible Oils.
Edible Vegetable Oils.
Standard for Commercial Turpentine.
Fruit and Fruit Products.
Flavouring Extracts.
Canned Peas.
Honey.
Limits for Arsenic.

Further work in this direction is progressing, the result of which will be published in the next Annual Report.

The provisions of the "Commercial Feeding Stuffs Act" and the "Fertilizers Act" relative to the registration of brands have been, I believe, well carried out.

I have the honour to be, sir,

Your obedient servant,

WM. HIMSWORTH,
Deputy Minister.

SESSIONAL PAPER No. 14

REPORT OF THE CHIEF ANALYST

OTTAWA, October 31, 1913.

WM. HIMSWORDH, Esq.,
Deputy Minister,
Inland Revenue Dept.,
Ottawa.

SIR.—I have the honour to report upon the work done in these Laboratories during the fiscal year ending March 31, 1913.

The total number of samples of Foods, Drugs and Fertilizers collected by our inspectors during the period named, is 3,009, and the results of analysis of these samples, together with full details, were reported in the following Bulletins Nos. 237 to 257, both inclusive.

Number of Bulletin.	Subject.	Number of Samples.
237	Lard.	268
238	Butter	171
239	Cider	69
240	Baking Powders	150
241	Stock Feeds (Registered)	138
242	Fertilizers	324
243	Cocoa and Chocolate	252
244	Jams	158
245	Extract of Vanilla	80
246	Canned Tomatoes	140
247	Cheese	141
248	Black Pepper	280
249	Pickles	80
250	White Pepper	270
251	Cinnamon	200
252	Cloves	141
253	Turpentine	158
254	Bran, &c.	300
255	Nitrous Ether	70
256	Olive Oil	30
257	Milk Powders	45
21 Bulletins	Total samples on same	3,009

Other samples analysed, and reported directly to the Deputy Minister, are as follows:—

OCCASIONAL SAMPLES, 1912-1913.

Drugs.	Samp ^l
Acetic Acid	67
Alcohol	3
Arsenate of Lead	4
Chloroform	10
Desinfectants	2
Dyes	2
Fusel Oil	4

4 GEORGE V., A. 1914

	Samples.
Kelp..	1
Ketones..	2
Linseed oil..	6
Miscellaneous..	10
Paints..	2
Seidlitz powders..	12
Soothing syrups..	11
Turpentine..	1

Total.. 134

Fertilizers..	48
Baking powders..	19
Beer..	14
Biscuits..	1
Brandy..	1
Butter..	59
Cider..	4
Coal..	1
Coffee..	4
Egg Substitutes..	1
Extracts..	12
Feeding Stuffs..	3
Fruit..	2
Gin..	1
Ginger..	3
Grape Juice..	1
Grease..	1
Honey..	1
Jam..	11
Lard..	4
Lemonade..	1
Malt..	1
Milk..	3
Mustard..	1
Salt..	3
Sugar..	6
Syrup..	30
Tapioca..	2
Tea..	5
Vinegar..	7
Water..	26
Whiskey..	4
Wine..	5

Total.. 419

In addition to the above, we have tested Vinegar samples for
Exeise.. 374

and have supplied the following standard solutions to the various offices:—

Winchesters Normal Soda..	85
Phenolphthalein..	16
Normal sulphuric acid..	6

Total.. 107

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The staff of these Laboratories during the past year has consisted of the following:—

Chief Analyst..	1
Assistants Analysts—	
(for the whole year).....	5
(for six months).....	2
Laboratory assistant.....	1
Recording clerk.....	1
Shipping clerk.....	1
Secretary.....	1
Messenger.....	1

The following standards for foods, etc., have been put into force by Order in Council, under authority of Section 26 of the Adulteration Act:—

STANDARDS, ETC.—

Edible Oils (Vegetable) (G. 1002).....	April 19, 1912
Turpentine (G. 1022).....	June 6, 1912
Lard (Amendment to G. 1010).....	Oct. 22, 1912
Fruit and Fruit Products (G. 1014).....	Oct. 29, 1912
Flavouring Extracts (G. 1015).....	Oct. 29, 1912
Canned Peas (G. 1016).....	Oct. 29, 1912
Honey (G. 1017).....	Oct. 29, 1912
Limits for Arsenic (G. 1018).....	Nov. 4, 1912
Examinations (G. 1051).....	Nov. 23, 1912
Rearrangements of Food Inspection Districts.....	Sept. 10, 1912

Details of the work of the year are published as Bulletins Nos. 237 to 257, which are appended to this report.

A large portion of the time of one of the assistant Analysts (Mr. Lemoine) has been given to the advisory work connected with the Proprietary and Patent Medicines Act.

I have the honour to be, sir,

Your obedient servant,

A. McGILL,

Chief Analyst.

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DEPARTMENT OF INLAND REVENUE,
OTTAWA, April 9, 1912.

MEMORANDUM.

Under the authority of an Order of His Royal Highness in Council, bearing date the twenty-eight day of March ultimo, and in virtue of the provisions of the twenty-sixth section of the 'Adulteration Act,' the following standards of quality have been established for 'Edible Vegetable Oils':—

EDIBLE VEGETABLE OILS.

1. *Olive Oil, Sweet Oil*, is entirely a product of the fruit of the olive tree. Its specific gravity, at 15.5°C., is not less than 0.9140 nor more than 0.9196. Its specific refractive index, at 15.5°C., is not less than 1.4700 nor more than 1.4718. Its Maumene number lies between 42 and 52. Its iodine absorption number (using the Hubl solution) lies between 77 per cent and 94 per cent. Its saponification number (Koettstorfer number) lies between 185.0 and 195.0. It does not contain above 3.5 per cent of free fatty acids.
2. *Cotton Seed Oil* is the oil obtained from the seeds of cotton plants and subjected to refining processes. It is free from rancidity; has specific gravity, at 15.5°C., between 0.9216 and 0.9300; has a refractive index (at 25°C.) not less than 1.4700 and not more than 1.4725, and an iodine number not less than 104 nor more than 110 (Hubl solution).
3. *Salad Oil*.—Either of the above may be sold as salad oil; but when Cotton Seed Oil is offered as Salad Oil, the fact that the article is Cotton Seed Oil must be declared on the label.
4. Mixtures of Cotton Seed Oil with Olive Oil must be so declared on the label. The standards above defined take effect on the 13th May proximo.

W. J. GERALD,
Deputy Minister.

PRIVY COUNCIL, CANADA.

AT THE GOVERNMENT HOUSE AT OTTAWA,
THURSDAY, the 6th day of June, 1912.

Present:

HIS ROYAL HIGHNESS THE GOVERNOR GENERAL IN COUNCIL.

His Royal Highness the Governor General in Council, in virtue of the provisions of Section 27 of Chapter 133, Revised Statutes of Canada, 1906, 'An Act respecting the Adulteration of Food and other Articles,' is pleased to order as follows:—

Turpentine is hereby added to Schedule 4 of the above described Act and the definition thereof shall be as hereinafter set forth:—

STANDARDS FOR TURPENTINE.

1. When turpentine is sold as a drug, for medicinal purposes or to the order of a physician, it shall meet pharmacopoeal requirements as provided by section 7 of the said Act.

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II. When turpentine is sold under any other conditions than for purposes of medicine, as above, it shall meet the following requirements:—

- (1) It shall be entirely free from mineral oil.
- (2) Unless sold as wood turpentine, it shall absorb not less than 340 times its weight of iodine (Hubl Solution and Method). If sold as wood turpentine it shall absorb not less than 240 times its weight of iodine by same method.
- (3) The undissolved (unpolymerized) residue on treatment of 10cc with 40cc of a sulphuric acid containing 20 per cent of the fuming acid, shall not exceed 10 per cent by volume of the sample.
- (4) The refractive index of this residue shall be not less than 1.4950 at 20° C.
- (5) The refractive index of the sample at 20°C. shall lie between 1.4680 and 1.4730.
- (6) The specific gravity of the sample at 20° C. shall not be less than 0.860.
- (7) The initial boiling point shall not be lower than 150°C. under ordinary atmospheric pressure.
- (8) At least 75 per cent by volume shall distil below 160° C.
- (9) The residue on evaporation over a steam bath shall not exceed two (2) per cent.

RODOLPHE BOUDREAU,

Clerk of the Privy Council.

DEPARTMENT OF INLAND REVENUE.

OTTAWA, October 29, 1912.

MEMORANDUM.

Under the authority of an Order of His Excellency the Deputy Governor General in Council, bearing date the 17th day of October, 1912, and in virtue of the provisions of the 26th Section of the 'Adulteration Act,' the following standards of quality have been established for 'Fruit and Fruit Products':

FRUIT AND FRUIT PRODUCTS.

1. Fruits are the clean, sound, edible, fleshy fructifications of plants, distinguished by their sweet, acid and ethereal flavours.

2. Dried fruit is the clean, sound product made by drying matured properly prepared fresh fruit in such a way as to take up no harmful substances; and conforms in name to the fruit used in its preparation.

3. Evaporated fruit is dried fruit in whose preparation artificial heat has been employed.

4. Evaporated Apples shall contain not more than 27 per cent of moisture.

5. Canned Fruit is the sound product made by sterilizing clean, sound, properly matured and prepared fresh fruit, by heating with or without sugar, and keeping in suitable clean, hermetically sealed containers; and conforms in name to the fruit used in its preparation.

6. Preserve is the sound product made from clean, sound, properly matured and prepared fresh fruit and sugar syrup, with or without spices and vinegar, and conforms in name to the fruit used in its preparation.

7. Jam, Marmalade, is the sound product made from clean, sound, properly matured and prepared fresh fruit or fruit pulp and sugar, with or without spices or vinegar, by boiling to a semi-solid consistence, and conforms in name to the fruit used in its preparation.

8. Fruit Butter is the sound product made from fruit juice, and clean, sound, properly matured and prepared fruit, boiled to a semi-solid mass of homogeneous

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consistence, with or without the addition of sugar and spices or vinegar, and conforms in name to the fruit used in its preparation.

9. Jelly, Fruit Jelly, is the sound, semi-solid gelatinous product made by boiling clean, sound properly matured and prepared fresh fruit with water, concentrating the expressed and strained juice, to which sugar is added, and conforms in name to the fruit used in its preparation.

10. When Jam, Marmalade, Fruit Butter or Jelly contains other fruit or fruit juice than that which gives its special name to the article, the fact of the presence of such other fruit shall be stated upon the label, in lettering as large and as distinct as that used in naming the fruit principally present. This requirement does **not, however,** apply to the use of fruit juice, up to the amount of ten (10) per cent of the weight of the jam, etc., used instead of water in the manufacture of the jam, etc.

11. When the sugar in preserve, jam, marmalade, fruit butter or jelly is wholly or partially replaced by glucose, or by any other substitute for sugar, the fact of such substitution shall be stated upon the label in plain lettering.

The Standards above defined take effect on the 25th November, 1912.

WM. HIMSWORTH,

Acting Deputy Minister.

DEPARTMENT OF INLAND REVENUE,

OTTAWA, September 4, 1913.

SIR,—I beg to inform you that under an Order of His Excellency, the Administrator in Council, dated the 25th August, 1913, the Order in Council of the 17th October, 1912, establishing Standards for Fruit and Fruit Products has been amended by adding another Section thereto, under the title of Section 12, which reads as follows:—

SECTION 12.

‘When Jam, Jelly, Marmalade, etc., are prepared from two or more sorts of fruits, the first named fruit on the label shall be that which is present in largest amount: thus a jam made from Strawberries and Apples or Apple Pulp or Apple Jelly, shall be labelled as Strawberry and Apple Jam, only if the weight of Strawberries used exceeds the weight of Apples or Apple Pulp or Apple Jelly in the product; where the weight of Apples or Apple Pulp or Apple Jelly exceeds the weight of Strawberries used, the label shall read, ‘Apple and Strawberry Jam,’ or ‘Apple Jam flavoured with Strawberries’ or otherwise, in such a way as to make clear the fact that Strawberries are not the chief constituent.’

I remain, sir,

Your obedient servant,

WM. HIMSWORTH,

Deputy Minister.

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DEPARTMENT OF INLAND REVENUE,
OTTAWA, October 29, 1912.

MEMORANDUM.

Under the authority of an Order of His Excellency the Deputy Governor General in Council, bearing date the 17th day of October, 1912, and in virtue of the provisions of the 26th Section of the 'Adulteration Act' the following standards of quality have been established for 'Flavouring Extracts':—

FLAVOURING EXTRACTS.

1. A Flavouring Extract intended for the purpose of flavouring food, is a solution of correct strength, as hereinafter defined, of sapid and odorous principles derived from an aromatic plant or parts of a plant, with or without its natural colouring matters, and conforms in name to the plant used in its preparations.

2. The usual solvents employed in the preparation of flavouring extracts are ethyl alcohol, water and glycerine. In the event of any other solvents than ethyl alcohol, water and glycerine being used, such solvents shall be harmless to health, and their names shall be plainly stated on the label.

3. Solutions of natural or synthetic preparations such as vanillin, coumarin, benzaldehyde, methyl salicylate or other sapid and odorous compounds, more or less resembling substances found in plants, or absolutely identical with these, if harmless to health, may be sold for flavouring purposes, if properly labelled so as to make it quite clear that they are not extracts as above defined; and preferably by the use of the word Artificial or Imitation.

4. If an extract be fortified or strengthened by having such natural or synthetic preparations as are referred to in the immediately preceding section added to it, the fact of such addition shall be clearly stated on the label, or the word 'compound' or 'mixture' shall be used to describe it.

5. Lemon Extract is the flavouring extract prepared from lemon peel, or from oil of lemon, and contains along with more or less of the terpenes of lemon oil not less than two-tenths (0.2) of one per cent of citral derived from oil of lemon.

6. Terpene Lemon Extract is the flavouring extract prepared as above described, and contains not less than five (5) per cent of oil of lemon, and not less than two-tenths (0.2) of one per cent of citral, derived from oil of lemon.

7. Vanilla Extract is the flavouring extract prepared from vanilla bean with or without sugar or glycerine, and contains in 100 cubic centimetres the soluble matters from not less than five (5) grams of vanilla bean (the dried, cured fruit of *Vanilla planifolia*).

The Standards above defined take effect on the 25th November, 1912.

WM. HIMSWORTH,
Acting Deputy Minister

DEPARTMENT OF INLAND REVENUE,
OTTAWA, October 29, 1912.

MEMORANDUM.

Under the authority of an Order of His Excellency the Deputy Governor General in Council, bearing date the 17th day of October, 1912, and in virtue of the provisions of the 26th Section of the 'Adulteration Act,' the following standards of quality have been established for 'Canned Peas':—

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CANNED PEAS.

1. Canned Peas, unless specially designated as below, shall be prepared from the harvest of the year in which they are canned, and shall be the unripe peas of the crop of that year.

2. Ripe Peas may be canned, provided that the label shows quite clearly that they are such. This may be done either by labelling them as Canned Ripe Peas, or by the use of the word Soaked.

3. Mixtures of ripe and unripe (or green) peas, shall be plainly labelled in such a way as to show that they are mixtures.

4. Peas which do not comply with the above regulations shall be deemed to be adulterated under the Act.

The Standards above defined to take effect on the 25th November, 1912.

WM. HIMSWORTH,
Acting Deputy Minister.

DEPARTMENT OF INLAND REVENUE,
OTTAWA, October 29, 1912.

MEMORANDUM.

Under the authority of an Order of His Excellency the Deputy Governor General in Council, bearing date the 17th October, 1912, and in virtue of the provisions of the 26th Section of the 'Adulteration Act' the following standard of quality has been established for 'Honey':—

HONEY.

Honey is entirely the product of the work of bees operating upon the Nectar of Flowers, and other saccharine exudations of plants; and contains not more than twenty-five (25) per cent of water; not more than eight (8) per cent of Sucrose (Cane Sugar); not more than twenty-five hundredths (0.25) of one per cent of ash; and not less than sixty (60) per cent of Invert Sugar.

The Standard above defined takes effect on the 25th November, 1912.

WM. HIMSWORTH,
Acting Deputy Minister.

DEPARTMENT OF INLAND REVENUE,
OTTAWA, November 4, 1912.

MEMORANDUM.

Under the authority of an Order of His Royal Highness in Council, bearing date the 24th day of October, 1912, and in virtue of the provisions of the 26th Section of 'An Act Respecting the Adulteration of Food and Other Articles,' Chapter 133 of the Revised Statutes of Canada, 1906, the following limits of arsenic (As₂O₃) in Foods and Food Materials, have been established:—

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* Arsenic (Arsenious acid, As_2O_3) shall not be present in Foods or Food Materials in excess of the following amounts:—

- * Citric Acid, 1 part per million.
- * Tartaric, 1 part per million.
- * Cream of Tartar, 2 parts per million.
- * Bi-carbonate of Soda, 2 parts per million.
- * Phosphoric Acid, 5 parts per million.
- * Phosphate of Lime, 5 parts per million.
- * Phosphate of Soda, 5 parts per million.
- * Boric (Boracic) Acid, 1 part per million.
- * Baking Powders, 2 parts per million.

* The above named articles shall be declared to be adulterated when found to contain arsenic in excess of the amounts above mentioned.

The Standards above defined take effect on the 2nd December, 1912.

WM. HIMS WORTHIL,
Acting Deputy Minister.

APPENDIX A.

BULLETIN No. 237—LARD.

OTTAWA, May 13, 1912.

WM. HIMSWORTH, Esq.,
Ass't Deputy Minister, Inland Revenue Dept.,
Ottawa.

SIR,—I beg to report upon 268 samples purchased as lard during the months of October and November of last year. These samples have been examined as regards their genuineness from the point of view of their conformity to the requirements of an Order-in-Council in effect from November 22, 1910, which defines lard as follows:—

1. Lard is the rendered fresh fat from hogs in good health at the time of slaughter, is clean, free from rancidity, and contains, necessarily incorporated in the process of rendering, not more than one (1) per cent, of substances other than fatty acids and fat.

2. Leaf lard is lard rendered at moderately high temperatures from the internal fat of the abdomen of the hog, excluding that adherent to the intestines, and has an iodine number not greater than sixty-five (65) and contains not more than one (1) per cent, of substances other than fatty acids and fat.

3. Compound lard; Lard compound, etc, is a mixture of animal and vegetable fats and oils. It must be free from rancidity, be made from sound and pure materials, and contain not more than one (1) per cent of substances other than fatty acids and fat.

The articles herein reported were sold to our inspectors as lard, with one exception, No. 45557, which was labelled as a compound.

It will be noted that allowance of only one per cent of substances other than fatty acids and fat, is common to all the grades of lard defined. Three samples of this collection contain an excess of water; but the amount is in two instances, so slightly beyond legal limits that it must be regarded as accidental. The cases in question are:—

	Water.
No. 37312—Ingersoll Packing Co	2.09
“ 47376—“ “	1.17
“ 48472—P. Burns Co.	1.14

Two samples sold as lard, contain cotton seed oil, and should have been sold as compound. These are No. 1389 and No. 38242.

All other samples, 262 in number, conform to the requirements of legal lard, and must be regarded as genuine.

It will be observed that many samples judged as genuine, give a distinct reaction with the Halphen test for cotton seed oil. I am convinced that the indications of this test considered by themselves, are not sufficiently positive to furnish a basis for pronouncing cotton seed oil present, with intent. Hogs which have been fed with cotton seed meal may yield a fat which gives the red coloration with Halphen's re-agent. Unless the absorption of iodine confirm the Halphen test, I do not regard the presence of cotton seed oil as established.

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The last report upon lard was published as Bulletin 193, in December, 1909. On the whole, this article appears to be of good quality; and the occasional sale of a compound lard for the genuine is to be regarded rather as an act of carelessness on the part of the retail dealer, than as intentional on the part of the manufacturer. Our inspection shows that manufacturers of compound lard are careful to state correctly the nature of the article on the container.

I beg to recommend the publication of this report as Bulletin No. 237.

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—							
1911.							
Nov. 8	Lard.....	46741	R. B. Adams & Co., Halifax, N.S.	1 lb.	17	Swift Co., Chicago...	Davis & Fraser, Halifax, N.S.
" 8	"	46742	P. T. Shea, Halifax, N.S.	1 "	20	J. Morrell, Ottumwa, U.S.	Mfr.....
" 8	"	46743	G. Hirshfield, Halifax, N.S.	1 "	14	Vendor.....	
" 8	"	46744	Thos. Spry, Halifax, N.S.	1 "	17	"	
" 9	"	46745	J. A. Leaman & Co., Halifax, N.S.	1 "	18	Vendors.....	
" 9	"	46746	A. L. Doyle & Co., Halifax, N.S.	1 "	17	"	
" 9	"	46747	T. J. Brown, Halifax, N.S.	1 "	18	Swift Co., Chicago...	Wentzells Ltd., Halifax, N.S.
" 9	"	46748	W. C. DeEay, Halifax, N.S.	1 "	18	Wm. Davies, Co., Toronto.	Davis & Fraser, Halifax, N.S.
" 9	"	46749	F. S. Short, Halifax, N.S.	1 "	18	F. W. Fearman, Ham- ilton.	Mfr.....
" 10	"	46750	Hy. Cook, Halifax, N.S.	1 "	15	Vendor.....	
" 10	"	46751	J. H. Emmett, Halifax, N.S.	1 "	15	"	
" 10	"	46752	J. G. Mitchell, Halifax, N.S.	1 "	17	"	
" 10	"	46753	J. A. Bremner, Halifax, N.S.	1 "	18	Wm. Davies, Co., Toronto, Ont.	R. B. Caldwell, agent, Halifax, N.S.
" 13	"	46754	Davis & Fraser, Halifax, N.S.	1 "	14	Vendors.....	
" 14	"	46755	O. Lyons, Kentville, N.S.	1 "	18	F. W. Fearman, Co., Hamilton, Ont.	Mfrs.....
" 15	"	46756	S. L. Cross, Kentville, N.S.	1 "	18	Park Blackwell, Toronto, Ont.	"
" 16	"	46757	Dixon Ltd., Halifax, N.S.	1 "	17	Wm. Davies, Co., Toronto, Ont.	R. B. Caldwell, agent, Halifax, N.S.
" 16	"	46758	Shore & Campbell, Halifax, N.S.	1 "	18	Unknown.....	J. Crowe, Ltd., Halifax, N.S.
" 17	"	46759	S. Thomson, Dart- mouth, N.S.	1 "	16	F. W. Fearman, Toronto, Ont.	Mfrs.....
" 17	"	46760	Forsyth, Jr., Dart- mouth, N.S.	1 "	18	"	"

DISTRICT OF PRINCE EDWARD ISLAND—

Oct. 16	Lard.....	46106	John McKenna, Char- lottetown, P. E. I.	1 lb.	18	Morris & Co., Chi- cago.	
" 16	"	46107	R. F. Maddigan & Co., Charlottetown, P. E. I.	1 "	18	Davis & Fraser, Char- lottetown, P. E. I.	
" 17	"	46108	S. Sanderson & Co., Charlottetown, P. E. I.	1 "	16	Langs, Montreal.	
" 18	"	46109	Stewart & Son, Char- lottetown, P. E. I.	1 "	16	Morris & Co., Chi- cago.	
21	"	46110	James Kennedy, Ken- sington, P. E. I.	1 "	17	Vendor.....	

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LARD.

RESULT OF ANALYSIS.

Inspector's Report. (Is not an expression of opinion.)	RESULT OF ANALYSIS.				No. of Sample	Remarks and Opinion of the Chief Analyst.
	Water.	Loehne Number (Hanus).	Barfoer Reaction at 40° C.	Halphen Reaction.		

R. J. WAUGH, INSPECTOR

'Silver Leaf' Brand	0.04	67.96	51.1	None	46741	Genuine
"	0.02	66.39	50.0	Faint Pink	46742	"
"	0.03	55.39	50.2	"	46743	"
Leaf Lard	0.03	55.37	49.6	None	46744	"
"	0.10	52.68	49.5	"	46745	"
"	0.01	60.75	50.3	Faint Pink	46746	"
'Silver Leaf' Brand	0.03	66.58	51.1	"	46747	"
Leaf Lard	0.04	62.02	50.4	"	46748	"
'Star' Brand	0.02	63.00	50.7	None	46749	"
"	0.03	56.27	49.5	"	46750	"
"	0.04	55.68	49.8	"	46751	"
Sold as pure	0.05	60.03	50.0	"	46752	"
"	0.05	59.39	50.1	Faint Pink	46753	"
Labelled pure leaf Lard	0.03	54.21	50.0	None	46754	"
"	0.09	55.11	51.3	Faint Pink	46755	"
"	0.05	56.36	51.4	"	46756	"
"	0.02	58.67	50.1	"	46757	"
"	0.02	58.63	50.1	"	46758	"
"	0.02	58.75	50.6	"	46759	"
"	0.04	57.63	51.0	"	46760	"

WM. A. WEEKS, INSPECTOR.

"	0.02	58.16	50.0	None	46106	Genuine.
"	0.02	57.36	49.5	"	46107	"
"	0.04	60.61	50.6	Light pink	46108	"
"	0.03	59.83	50.0	None	46109	"
"	0.04	51.93	49.8	"	46110	"

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 PRINCE EDWARD ISLAND—							
1911.							
Oct. 21	Lard,	46111	R. T. Holman, Ltd., Summerside, P. E. I.	1 lb . .	15	Wm. Davis & Son, Toronto.	
" 21	"	46112	Brace McKay Co., Summerside, P. E. I.	1 " . .	16	Davies Ltd., Montreal.	
" 26	"	46113	D. J. McLean, Montague, P. E. I.	1 " . .	16	Jno. Tobin & Co., Halifax.	
" 27	"	46114	W. W. Jenkins, Georgetown.	1 " . .	16	The Wm. Davies & Co., Ltd., Toronto.	
" 31	"	46115	T. Strickland, Charlottetown, P. E. I.	1 " . .	18	Vendor	

DISTRICT OF NEW BRUNSWICK—

Oct. 13	Lard,	45540	John Hopkins, St. John N. B.	1 lb . .	16	Vendor	
" 14	"	45541	F. E. Williams Co., Ltd., St. John, N. B.	1 " . .	18	Vendors	
" 18	"	45542	G. B. Taylor, St. John, N. B.	1 " . .	Nil.	Vendor	
" 18	"	45543	Slipp & Flewelling, St. John, N. B.	1 " . .	16	Vendors	
" 18	"	45544	Carpenter & Co., St. John, N. B.	1 " . .	15	D. B. Martin Ltd., West Toronto, Ont.	
" 24	"	45545	D. McDade, St. John, N. B.	1 " . .	16	Vendor	
" 24	"	45546	2 Barkers, Ltd., St. John, N. B.	1 " . .	14	The Park Blackwell Co., Ltd., Toronto.	
" 24	"	45547	James Collins, St. John, N. B.	1 " . .	18	Gunn's, West Toronto, Ont.	
Nov. 3	"	45548	P. F. McKenna, St. Stephen, N. B.	1 " . .	14	Swift Co. Ltd., U.S.A.	
" 7	"	45549	John McCluskey, Fredericton, N. B.	1 " . .	15	The Wm. Davies Co. Ltd., Montreal.	
" 8	"	45550	Imperial Packing Co., Ltd., Woodstock, N. B.	1 " . .	15	Vendors	
" 8	"	45551	W. S. Skillen, Woodstock, N. B.	1 " . .	16	Gunn's, Ltd., Toronto, Ont.	
" 9	"	45552	B. Beveridge, Andover, N. B.	1 " . .	17	"	
" 10	"	45553	F. D. Sadler, Perth, N. B.	1 " . .	17	Fowler's Can. Co. Ltd. Hamilton, Ont.	
" 14	"	45554	Sussex Packing Co., Ltd., Sussex, N. B.	1 " . .	15	Vendors	
" 15	"	45555	D. A. McBeath, Moncton, N. B.	1 " . .	17	F. W. Fearman Co., Ltd., Hamilton, Ont.	
" 15	"	45556	Wm. P. White, Moncton, N. B.	1 " . .	15	Davis & Fraser, Charlottetown, P. E. I.	
" 16	Lard Compound	45557	D. & J. Ritchie & Co., New Castle, N. B.	1 " . .	15	The N. K. Fairbank's Co., Montreal.	
" 17	Lard	45558	A. J. Meahan, Bathurst, N. B.	1 " . .	15	Gunn's Ltd., West Toronto, Ont.	
" 17	"	45559	W. J. Kent & Co., Ltd. Bathurst, N. B.	1 " . .	15	F. W. Fearman Co. Ltd., Hamilton, Ont.	
" 17	"	45580	Adams Burns Co., Ltd. Bathurst, N. B.	1 " . .	15	Laing, P. & P. Co., Montreal.	

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of opinion.)	RESULTS OF ANALYSIS.					Remarks and Opinion of the Chief Analyst
	Water.	Iodine num-ber (Hanus).	Poly-mer Re-fractometer at 40 C.	Halphen Reaction.	No. of Sample.	
WM. A. WEEKS, INSPECTOR <i>Continued.</i>						
	0.02	58.42	50.4	None	46111	Genuine
	0.01	61.02	50.3		46112	
Swifts	0.02	67.64	51.2		46113	
	0.02	58.42	50.2		46114	
	0.04	52.75	49.1		46115	
J. C. FERGUSON, INSPECTOR.						
	0.01	56.25	49.2	None	45540	Genuine
	0.04	56.69	50.0		45541	
	0.01	58.34	49.9		45542	
	0.06	57.28	49.8		45543	
	0.03	61.97	50.8		45544	
	0.03	56.19	49.3		45545	
	0.09	55.83	51.7		45546	
	0.09	58.98	50.2		45547	
"Silver Leaf" Brand	0.04	66.38	51.2	Pink	45548	
	0.04	60.57	50.3		45549	
	0.17	54.79	49.4	Light Pink	45550	
	0.04	57.73	50.7	None	45551	
	0.01	60.36	50.5		45552	
	0.04	60.48	51.0		45553	
	0.03	55.76	49.7		45554	
"Star" Brand	0.02	61.27	50.9		45555	
	0.02	57.55	49.9		45556	
"Boar's Head" Compound	0.02	95.94	56.7	Red.	45557	Sold as compound
	0.03	60.73	50.3	Faint Pink	45558	Genuine
	0.03	62.63	51.0	Light Pink	45559	
	0.05	60.77	50.2	Faint Pink	45580	

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—

1911.							
Oct.	12	Lard.	36998	Cantin & Frère, 271 rue St-Joseph, Quebec.	1 lb.	18	Blackwell Co., Toronto. Unknown
"	13	"	36999	G. Gingras, 265 rue du Roi, Quebec.	1 "	20	Mathews, Peterboro. J. B. Reneaud et Cie.
"	16	"	37000	O. Lacroix, 19 rue St-Joseph, Quebec.	1 "	16	A. Dombrosky. Manufacturer
"	16	"	37301	J. E. Gregoire, 128 rue du Pont, Quebec.	1 "	15	G. Mathews Co., Hull. Emond and Côté
"	17	"	37302	W. Cantin, 133 rue du Pont, Quebec.	1 "	18	Ingersalt Co., Montreal. J. B. Reneaud et Cie.
"	19	"	37303	A. Pichette, 176 rue D'Orchester, Quebec.	1 "	18	Davis, Toronto. "
"	19	"	37304	Louis Jobin, 156 rue D'Orchester, Quebec.	1 "	20	Leon Bertrand. Manufacturer.
"	19	"	37305	J. D. Marier, 136 rue D'Orchester, Quebec.	1 "	16	Gunn's Ltd, Toronto. W. Carrier et Cie.
"	20	"	37306	W. Panjalon, 120 rue D'Orchester, Quebec.	1 "	20	Imperial, Hamilton. N. Turcot et Cie.
"	20	"	37307	J. F. Goslin, 50 rue D'Orchester, Quebec.	1 "	20	Sylvain & Frere. Manufacturers
"	20	"	37308	Mad. T. Savard, 16 rue D'Orchester, Quebec.	1 "	20	Mathews. J. B. E. Letellier
"	20	"	37309	Mad. Theodul Dubuc, 135 rue Charest, Que.	1 "	15	" " "
"	23	"	37310	A. A. Cantin, 555 rue St. Valier, Quebec.	1 "	18	Follor Cannille, Hamilton. J. B. Reneaud et Cie.
"	23	"	37311	J. E. Morand, 406 rue St-Valier, Quebec.	1 "	20	" " "
"	23	"	37312	J. E. Emond, Laliberté aud St. Helene, Que.	1 "	18	Ingersall Packing Co. Unknown
"	23	"	37313	L. Mercier, 118 rue Laliberté, Quebec.	1 "	18	Geo. Mathews & Co., Ltd. Drouin & Frère.
"	24	"	37314	Alfred Cloutier, 132 rue Laliberté, Quebec.	1 "	18	Ingersoll, Ont. J. B. E. Letellier
"	24	"	37315	Ed. Verreault, 204 rue de la Reine, Quebec.	1 "	18	Fowlers, Hamilton. Octave Jacques.
"	24	"	37316	F. X. Goselin, 115 rue de la Couronne, Que.	1 "	16	Mathews, Hull. J. B. E. Letellier
"	24	"	37317	G. H. Turcotte, 92 rue Caron, Quebec.	1 "	17	Emond & Côté. Manufacturers

DISTRICT OF ST. HYACINTHE—

Oct.	25	Lard	1370	A. E. D'Artois & Fils, Farnham.	1 lb.	18	The Harris Abattoirs Co., Ltd., Montreal
"	25	"	1371	Ed. Bienvenu, Farnham.	1 "	16	The Park Blackwell Co., Ltd., Toronto.
"	26	"	1372	W. R. Horner, Granby.	1 "	16	Gunn's Ltd., West Toronto.
"	26	"	1373	W. D. Bradford, Granby.	1 "	15	The Laing P. & P. Co. Ltd., Montreal.
"	26	"	1374	Allan Taylor & Co., Waterloo.	1 "	15	" " "
"	26	"	1375	Gilmore & Girard, Waterloo.	1 "	15	The Park Blackwell Co., Ltd., Toronto.
"	26	"	1376	Mde a D'Lebeau, Sutton.	1 "	15	Hudon & Orsali, Montreal.

SESSIONAL PAPER No. 14

LA D.

RESULTS OF ANALYSIS.

Inspector's Report (Is not an expression of opinion).	Water.	Iodine Num- ber (Hal- lows).	Butyro- fractometer at 40°C.	Hallphen Reaction.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
F. X. W. E. BELAND, INSPECTOR.						
		p. c.				
	0.45	55.95	50.2	None.	36998	Genuine.
	Trace.	57.54	51.5	Faint Pink.	36999	"
		56.12	50.5	"	37000	"
	None.	62.04	51.1	"	37301	"
	1.08	51.40	49.8	None.	37302	"
	0.11	60.55	50.3	"	37303	"
	Trace.	62.87	51.1	"	37304	"
		58.60	50.2	"	37305	"
		62.39	50.8	"	37306	"
	0.35	59.22	50.2	"	37307	"
Pure Lard	Trace.	63.38	51.0	"	37308	"
"		61.97	50.4	Faint Pink.	37309	"
"		60.52	50.2	None.	37310	"
"		63.87	50.6	"	37311	"
"	2.09	56.30	50.7	"	37312	Excess water.
"	Trace.	60.67	50.3	"	37313	Genuine.
"		56.91	50.8	"	37314	"
"		59.28	50.1	Light Pink.	37315	"
"		60.50	50.9	None.	38316	"
"		63.02	50.8	"	37317	"

J. C. ROULEAU, INSPECTOR.

	0.02	59.32	50.0	Faint Pink.	1370	Genuine.
	0.22	58.02	51.5	None.	1371	"
	0.02	64.46	51.0	Faint Pink.	1372	"
	0.04	61.63	50.6	Pink.	1373	"
	0.04	62.38	50.3	Red.	1374	"
	0.03	62.00	50.4	None.	1375	"
	0.03	58.25	50.0	"	1376	"

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

1911.							
Nov.	6	Lard	1377	Bray Bros., Sherbrooke.	3 lbs.	55	The Ingersoll Packing Co., Ltd., Ingersoll, Ont.
"	6	"	1378	King's Cash Store, Thetford.	$\frac{3}{4}$	13	Armour's Packing Co., Chicago.
"	8	"	1379	C. E. Roy, Megantic.	1	15	Fowler's Canadian Co., Ltd., Hamilton
"	9	"	1380	E. A. McKee, Coaticook.	1	15	The Laing P. & P. Co. Ltd., Montreal.
"	9	"	1381	Meade Bros. & Co., North Coaticook.	1	14	D. S. Bachand, Coaticook.
"	11	"	1382	F. W. D. Melloon, Rock Island.	1	14	Armour & Co., Chicago.
"	11	"	1383	J. A. Surprenant, Rock Island.	1	13	Vendor.
"	21	"	1384	J. P. Réne, Nicolet.	1	15	L. Chaput fils & Cie, Montreal.
"	21	"	1385	A. D. Réne, Nicolet.	1	14	
"	22	"	1386	L. H. Paquin & Cie, Sorel.	1	17	The Whyte Packing Co., Ltd., Stratford.
"	22	"	1387	J. V. Fagnan, Sorel.	1	15	The Laing Co., Montreal.
"	23	"	1388	J. B. St. Pierre, St. Hyacinthe.	1	17	Davies, Ltd., Montreal.
"	23	"	1389	Bazinnet & Brodeur.	1	16	National Packing Provision Co., Quebec.

DISTRICT OF MONTREAL—

Oct.	23	Lard	40941	J. E. Belisle, 129 Wellington St., Montreal	1 lb.	20	
"	23	"	40942	J. Caron, 252 Church St., Verdun, P.Q.	1	14	D. B. Martin, Toronto
"	23	"	40943	"	1	15	Davies Ltd., Montreal
"	23	"	40944	A. Clarke, 241 Church St., Verdun, P.Q.	1	15	Gunn, Langlois & Co., Montreal.
"	23	"	40945	Louis Leblanc, 142 Church St., Verdun, P.Q.	1	15	
"	23	"	40946	O. Brunet, 1265 Wellington St., Verdun, P.Q.	1	20	
"	23	"	40947	obitaille & Gauthier, 2 Craig West, Montreal.	1	18	McDuff Lamb, Montreal.
"	23	"	40948	P. H. Theoret, 21 Vitre St. E., Montreal.	1	20	Laing P. & P. Co., Ltd., Montreal.
"	23	"	40949	R. Bernard, 91 Lagachetiere E., Montreal	1	15	Lunham & Graham, Montreal.
"	23	"	40950	E. Lionnais, 56 Sanguinet St., Montreal.	1	17	
"	24	"	40951	Jos. Fournelle, St. Agathe de Monts, P.Q.	1	15	Davies Ltd., Montreal

SESSIONAL PAPER No. 14

LARD.

Inspector's Report (Is not an expression of opinion.)	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	iodine Num- ber (Hanus).	Butyro. Re- fractometer at 40 C.	Sulphur Re- action.		

J. C. ROULEAU, INSPECTOR *Concluded.*

	p. c.				
Pure Lard	0.03	59.31	50.2	Faint Pink..	1377 G name
.....	0.03	66.13	51.0	"	1378 "
Pure Lard.....	0.04	61.25	50.7	None	1379 "
Extra Pure Lard	0.07	64.10	50.3	Red	1380 "
.....	0.04	68.58	51.2	Faint Pink..	1381 "
.....	0.03	67.83	51.1	Pink	1382 "
.....	0.03	59.35	50.1	None.....	1383 "
Extra Pure Lard.....	0.03	59.28	50.0	"	1384 "
"	0.02	59.43	50.0	"	1385 "
.....	0.02	56.19	49.8	"	1386 "
.....	0.05	60.03	50.0	Red	1387 "
.....	0.03	63.50	50.3	None.....	1388 "
Pure Lard	0.04	72.88	52.9	Red	1389 Contains cotton seed oil. Adulterated.

J. J. COSTIGAN, INSPECTOR.

Sold as pure	0.03	59.50	56.2	Red	40941 Genuine.
.....	0.02	61.14	50.1	None.....	40942 "
.....	0.03	59.57	50.0	"	40943 "
.....	0.02	63.50	50.7	Faint pink.	40943 "
Sold as pure	0.04	59.73	50.0	Pink	40944 "
"	0.03	59.46	50.3	Faint pink.	40945 "
"	0.03	59.49	49.9	None.....	40946 "
"	0.07	60.18	50.4	Pink.....	40947 "
"	0.04	56.41	49.8	None.....	40948 "
"	0.05	64.25	50.9	Light pink.	40949 "
ure	0.02	62.74	50.5	None.....	40950 "

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 MONTREAL—

1911.							
Oct.	24	Lard.....	40952 E. Masse, St. Agathe de Monts, P.Q.	1 lb ..	15	.....	.....
"	27	"	40953 E. Dufour, Joliette, P.Q.	1 " ..	15	Laing P. & P. Co., Ltd.	.....
"	27	"	40954 O. Chevalier et fils, Joliette, P.Q.	1 " ..	15	Davies Ltd., Montreal	.....
Nov.	3	"	40955 E. W. Farrell, 79 St. Antoine St. West, Montreal.	1 " ..	18	The Geo. Matthews Co., Ltd.	.....
"	3	"	40956 J. A. Reneaud, 622 St. Antoine St. West, Montreal.	1 " ..	15	.....	.....
"	3	"	40957 Davies Ltd., 1640 B St. James St., Montreal.	1 " ..	16	Vendors .....	.....
"	3	"	40958 A. Pilon, 1681 Notre Dame West, Montreal.	1 " ..	16	.....	.....
"	3	"	40959 P. Lebrun, 1662 Notre Dame West, Montreal.	1 " ..	18	Fowler's Canadian Co., Ltd.	.....
"	3	"	40960 H. Desmarais, 1650 Notre Dame West, Montreal.	1 " ..	15	.....	.....

DISTRICT OF OTTAWA—

Oct.	10	Lard.....	49011 Peter Speirs & Co., Carleton Place.	1 lb ..	18	The Geo. Matthews Co., Ltd., Hull.	.....
"	10	"	49012 Wm. Jenkins, Carleton Place.	1 " ..	16	The Park-Blackwell, Ltd., Toronto.	.....
"	12	"	49013 W. E. Parsons, Arnprior.	1 " ..	15	The Geo. Matthews Co., Ltd., Hull.	.....
"	12	"	49014 T. McCormick, Arnprior.	1 " ..	15	Fowler's Canadian Co., Hamilton.	.....
"	13	"	49015 L. M. Davison, Kemptville.	1 " ..	18	Gilmour & Co., Brockville.	.....
"	16	"	49016 D. J. Dick, Almonte.	1 " ..	15	The Geo. Matthews Co., Ltd., Hull.	.....
"	16	"	49017 Fred W. Robertson, Almonte.	1 " ..	15	Fowler's Canadian Co., Ltd., Hamilton.	.....
"	20	"	49018 Sanders, Soule & Casselman Co., Ltd., Chesterville.	1 " ..	16	The Geo. Matthews Co., Ltd., Hull.	.....
"	20	"	49019 Chester Casselman, Chesterville.	1 " ..	15	The Wm. Davies Co., Toronto.	.....
"	25	"	49020 A. Moreland, Bank st., Ottawa.	1 " ..	18	Gunn's, Ltd., Toronto	Bate & Co., Ottawa.
"	25	"	49051 H. Armstrong, Bank st., Ottawa.	1 " ..	17	Fowler's Can. Co., Ltd., Hamilton.	.....
"	25	"	49052 A. E. Rea & Co., Ottawa	1 " ..	18	Gunn's, Ltd., West Toronto.	.....
"	25	"	49053 The Geo. Matthews Co., Ltd., By Ward Market, Ottawa.	1 " ..	15	Vendors .....	.....
"	25	"	49054 " " " "	1 " ..	17	" .....	.....

SESSIONAL PAPER No. 14

LARD.

Inspector's Report (Is not an expression of opinion.)	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Iodine Num- ber (Hanns.)	Butyro Re- fractometer at 40°C.	Hallpen Re- action.		

J. J. COSTIGAN, INSPECTOR—*Continued.*

	p.c.				
Sold as pure.....	0 02	57 41	49 7	None.....	40952 Genuine
Labelled extra pure lard.....	0 06	62 12	50 8	Red.....	40953 "
Labelled pure.....	0 04	61 51	50 4	None.....	40954 "
.....	0 07	59 91	50 0	Red.....	40955 "
.....	0 03	58 50	50 1	None.....	40956 "
.....	0 03	60 87	50 3	".....	40957 "
.....	0 01	60 00	50 2	".....	40958 "
.....	0 04	60 94	50 1	Light pink.	40959 "
.....	0 06	59 57	50 0	None.....	40960 "

J. A. RICKEY, INSPECTOR.

.....	0 04	56 63	49 9	None.....	49011 Genuine.
Labelled choice family lard ; pure lard.....	0 03	53 91	50 6	".....	49012 "
Matthews pure lard.....	0 07	63 71	50 9	".....	49013 "
Imperial pure lard.....	0 07	60 85	50 3	".....	49014 "
Pure lard.....	0 07	58 61	50 1	".....	49015 "
Buttercup Brand.....	0 07	63 22	50 5	".....	49016 "
Imperial pure lard.....	0 05	60 18	50 8	".....	49017 "
Choice pure lard.....	0 08	60 97	51 1	".....	49018 "
.....	0 04	59 18	50 2	Faint pink..	49019 "
.....	0 03	56 50	49 9	".....	49020 "
Pure lard. L. & S. Best.....	0 03	59 13	50 0	None.....	49051 "
Maple Leaf ; pure lard.....	0 03	58 37	50 2	".....	49052 "
Matthews pure lard.....	0 04	58 92	50 0	".....	49053 "
Rose Brand.....	0 03	56 88	49 9	".....	49054 "

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—							
1911.							
Oct. 26	Lard.....	49055	Goodall Bros., Ottawa.	3 lbs	50	D. B. Martin, West Toronto.	
" 26	"	49056	A. P. Johnson, Ottawa	1 "	18	Jno Duff & Son, Hamilton.	
" 26	"	49057	The Geo. Matthews Co., Ltd., Queen st. West, Ottawa.	1 "	15	Vendors.....	
" 26	"	49058	Jos. Martel, Hull, P.Q.	1 "	15	The Geo. Matthews Ltd., Hull.	
" 26	"	49059	P. H. Charron & Co., Hull, P.Q.	1 "	15	Jos. O'Mara, Palmers ton, Ont.	
" 27	"	49060	B. Slattery, Ottawa...	1 "	18	D. B. Martin, Ltd., West Toronto.	
DISTRICT OF KINGSTON—							
Nov. 1	Lard.	48554	W. E. Hopkinson, Kingston.	1 lb...	20	Anderson Bros., Kingston.	
" 1	"	48555	Geo. Gibson, Kingston	1 "	15	Gunn's Ltd., West Toronto.	
" 1	"	48556	L. W. Murphy, Kingston.	1 "	15		J. Y. Parkhill, Kingston.
" 1	"	48557	J. Cullen, Kingston...	1 "	16	Geo. Matthews, Peterboro.	
" 1	"	48558	C. Saunders, Kingston	1 "	15	" "	
" 1	"	48559	C. H. Pickering, Kingston.	1 "	15		Geo. Robertson & Son, Kingston.
" 1	"	48560	Anderson Bros., Kingston.	1 "	15	Vendors	
" 1	"	48561	E. S. Suddard, Kingston.	1 "	15	Gunn's Ltd., West Toronto.	
" 1	"	48562	D. Couper, Kingston..	1 "	15	Geo. Matthews, Peterboro.	
" 1	"	48563	Kelley Bros., Kingston	1 "	15	" "	
" 2	"	48564	M. Nolan, Kingston...	1 "	15	Freeman, Hamilton..	
" 2	"	48565	J. Crawford, Kingston.	1 "	17	Geo. Matthews, Peterboro.	
" 2	"	48566	D. B. Gage, Kingston.	1 "	15	Fowlers, Hamilton...	
" 2	"	48567	J. Lemmon, Kingston.	1 "	15	Geo. Matthews, Peterboro.	
" 2	"	48568	J. A. Donaldson, Kingston.	1 "	15	A. Maclean, Kingston	
" 2	"	48569	J. T. Morris, Kingston	1 "	14	J. Y. Parkhill, Kingston.	
" 4	"	48570	G. D. Vallean, Kingston.	1 "	16	Gunn's Ltd., West Toronto.	
" 4	"	48571	J. McCulla, Kingston.	1 "	16	Fowlers, Hamilton...	
" 4	"	48572	J. R. B. Gage, Kingston.	1 "	15	Gunn's Ltd., West Toronto.	
" 4	"	48573	J. Redden, Kingston..	1 "	15	Anderson Bros., Kingston.	

SESSIONAL PAPER No. 14

LARD.

RESULTS OF ANALYSIS.

Inspector's Report. (Is not an expression of opinion.)	Water.	Iodine Number (Harris).	Batyro Refractometer at 40° C.	Halphen Reaction.	No. of Sample.	Remarks and opinion of the Chief Analyst.
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J. A. RICKEY, INSPECTOR—*Continued.*

	p. c.					
.....	0 01	60 32	50 1	None	49055	Genuine
Horse Shoe Brand	0 03	60 75	50 8	"	49056	"
Matthews pure lard	0 04	60 18	50 2	"	49057	"
Rose Brand	0 01	57 00	49 9	"	49058	"
Pure lard	0 99	57 01	50 6	"	49059	"
.....	0 08	59 65	50 1	"	49060	"

JAS. HOGAN, INSPECTOR.

.....	0 03	59 07	50 0	None	48554	Genuine
.....	0 03	60 59	50 5	"	48555	"
.....	0 05	59 78	50 1	"	48556	"
.....	0 05	59 50	50 5	"	48557	"
.....	0 01	59 72	50 2	Pink	48558	"
.....	0 04	59 63	50 0	None	48559	"
.....	0 03	59 76	50 0	"	48560	"
.....	0 05	58 61	50 0	"	48561	"
.....	0 05	59 43	50 2	"	48562	"
.....	0 04	59 03	50 0	"	48563	"
.....	0 04	61 23	50 5	"	48564	"
.....	0 03	62 63	50 7	"	48565	"
.....	0 04	55 89	49 4	Faint Pink	48566	"
.....	0 03	51 00	49 0	None	48567	"
.....	0 04	60 23	50 1	"	48568	"
.....	0 03	59 15	50 3	Pink	48569	"
.....	0 02	57 63	50 0	None	48570	"
.....	0 03	61 23	50 5	"	48571	"
.....	0 03	61 65	50 9	Pink	48572	"
.....	0 04	58 44	50 2	None	48573	"

4 GEORGE V., A. 1914

BULLETIN No. 237—

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—

1911.							
Oct.	24	Lard	47360	C. W. Fox, Owen Sound.	1 lb.	15	Gunn's, Ltd, Toronto
"	11	"	47365	James Blake, 393 Mary St., Hamilton.	1 "	15	F. W. Fearman Co., Ltd., Hamilton.
"	16	"	47366	B. Chrysler, Mary St., Hamilton.	1 "	15	Fowler's Can. Co., Hamilton.
"	18	"	47367	A. E. Cronk, Cannon St., Hamilton.	1 "	14	Jno. Duff & Son, Hamilton.
"	18	"	47368	A. T. Prosser, 214 Locke St., Hamilton.	1 "	15	Gunn's Ltd., Toronto.
"	20	"	47369	H. A. Tubb, 337 Parliament St., Toronto.	1 "	17	Puddy Bros., Toronto.
"	20	"	47370	E. Handley, 268 Spadina St., Toronto.	1 "	16	"
"	23	"	47371	F. H. Arkell, Orangeville.	1 "	15	Gunn's Ltd., Toronto.
"	23	"	47372	T. Durkin & Son, Orangeville.	1 "	15	"
"	24	"	47373	J. R. Boyd, Owen Sound.	1 "	15	Vendor
"	24	"	47374	M. A. Goetz, Owen Sound.	1 "	17	"
"	24	"	47375	J. McQuaker & Co., Owen Sound.	1 "	15	Whyte Packing Co., Stratford.
"	26	"	47376	D. Gibbons & Sons, Meaford.	1 "	15	The Ingersoll Packing Co., Ltd., Ingersoll
"	26	"	47377	Brown Bros., Meaford.	1 "	15	The Collingwood Packing Co., Ltd., Collingwood.
"	26	"	47378	T. M. McKeown, Collingwood.	1 "	15	Swift Can. Co., Ltd., W. Toronto.
"	27	"	47379	J. Bingham & Son, Barrie.	1 "	15	Vendors
Nov.	2	"	47380	W. B. Pringle & Co., Whitby.	1 "	17	The Wm. Davies Co., Ltd., Toronto.
"	2	"	47381	Mathison Bros. Whiteby.	1 "	18	The Geo. Matthews Co., Ltd., Peterboro
"	2	"	47382	C. H. Crysedale & Son, Oshawa.	1 "	15	Fowlers Can. Co., Ltd., Hamilton.
"	2	"	47382	Brooks & Armour, Oshawa.	1 "	16	Vendors

DISTRICT OF WINDSOR—

Oct.	16	Lard	47801	M. Vansycle, St. Thomas.	1 lb.	10	St. Thomas Packing Co.
"	16	"	47802	A. J. Kadwell, St. Thomas.	1 "	16	Geo. Matthews Co., Brantford.
"	16	"	47803	Karstadt & Mahler, St. Thomas.	1 "	18	Tillsonburg Packing Co.
"	16	"	47808	St. Thomas Packing Co., St. Thomas.	1 "	nil.	Vendors
"	16	"	47812	R. T. Pencombe, St. Thomas.	1 "	16	Fowler's Canadian Co., Hamilton.
"	17	"	47816	Orendorf Bros., Ridgetown.	1 "	15	Geo. Matthews Co., Brantford.

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of opinion.)	RESULT OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Iodine Number (Harris).	Butyro Refractometer at 40°C.	Hulphen Reaction.		

H. J. DAGER, INSPECTOR.

	p.c.					
"Maple Leaf" Brand. Pure Lard.	0.04	59.50	50.3	None	47360	Genuine.
.....	0.03	58.32	50.0	"	47365	"
.....	0.03	63.75	51.0	"	47366	"
.....	0.03	61.01	50.4	"	47367	"
.....	0.04	52.56	49.0	"	47368	"
.....	0.04	57.91	50.1	"	47369	"
.....	0.03	55.17	51.2	"	47370	"
"Maple Leaf" Pure Lard	0.04	61.38	50.5	"	47371	"
.....	0.04	62.24	50.5	Pink	47372	"
.....	0.13	57.18	49.7	None	47373	"
.....	0.04	56.08	49.8	"	47374	"
.....	0.02	60.35	50.4	"	47375	"
"Beaver" Brand	1.17	61.73	50.8	"	47376	Water in excess. Duplicate sample gave 1.52 p.c. moisture.
.....	0.03	56.97	49.9	Pink	47377	Genuine.
"Silver Leaf" Brand. Guaranteed Pure Lard.	0.04	68.28	51.5	None	47378	"
.....	0.03	62.20	51.0	"	47379	"
.....	0.03	61.97	50.5	"	47380	"
"Rose" Brand	0.04	53.91	49.2	"	47381	"
.....	0.04	60.49	50.5	Faint pink	47382	"
.....	0.06	59.95	50.6	None	47383	"

JNO. TALBOT, INSPECTOR.

Labelled Pure Family Lard.	0.05	62.50	50.9	None	47801	Genuine.
.....	0.03	64.26	51.3	"	47802	"
Labelled London T. P. C. Pure Lard	0.04	60.19	50.4	Faint pink.	47803	"
.....	0.11	59.72	50.3	None	47808	"
Labelled Fowler's Pure Lard, L. & S. Best.	0.04	60.67	50.2	Faint pink.	47812	"
Labelled Geo. Matthews' Pure Lard.	0.02	61.72	50.7	None	47816	"

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

DISTRICT OF WINDSOR—

1911.							
Oct. 17.	Lard.....	47823	Clark & Sons, Ridge-town.	1 lb..	15	Geo. Matthews Co., Brantford.	
" 18.	"	47825	B. C. Watson, Leamington.	1 " ..	15	F. W. Fearman, Hamilton.	
" 18.	"	47829	B. & W. McIntyre, Leamington.	1 " ..	16	Geo. Matthews Co., Brantford.	
" 18.	"	47834	R. T. Moran, Leamington.	1 " ..	16	F. W. Fearman Co., Hamilton.	
" 20.	"	47850	Wm. Rodgers, Chatham.	1½ lb.	20	Dom. Provision Co., London.	
" 20.	"	47851	E. R. Snook, Chatham.	1½ " ..	20	F. W. Fearman, Hamilton.	
" 20.	"	47852	Jas. Tefft, Chatham...	1 tin..	40	Vendor	
" 20.	"	47853	M. Taylor, Chatham...	1½ lb.	13	Fowler's Can. Co., Hamilton.	
" 23.	"	47859	Geo. Jackson, London.	1 lb..	15	Vendor	
" 23.	"	47860	T. Hamlyn, London...	1 " ..	15	"	
" 23.	"	47861	H. A. Schafer, London.	1 " ..	15	Tillson Packing Co., Tillsonburg.	
" 23.	"	47862	F. T. Adams, London.	1 " ..	13	Vendor	

DISTRICT OF MANITOBA—

Nov. 6	Lard.....	47448	D. Christie, Winnipeg.	1 lb..	15	Wm. Davis & Co., Toronto.	Unknown
" 6	"	47449	Robertson & Co., Winnipeg.	1 " ..	20	Western Packing Co., Winnipeg.	
" 6	"	47450	J. Patterson, Winnipeg	1 " ..	20	Gordon Ironsides, Fares Co., Winnipeg.	
" 6	"	47451	The W. H. Stone & Co., Winnipeg.	1 " ..	20	Swift Canadian Co., Winnipeg.	Manufacturers.
" 6	"	47452	M. Brown, Winnipeg..	1 " ..	20	.....
" 6	"	47454	F. E. Crone, Winnipeg	1 " ..	20	Swift Canadian Co., Winnipeg.	Unknown
" 6	"	47455	F. Fawley, Winnipeg.	1 " ..	20	Gordon Ironsides, Fares Co., Winnipeg.	
" 6	"	47456	F. H. Menlove, Winnipeg.	1 " ..	20	.....
" 7	"	47457	Carson Bros., Norwood Grove, Man.	1 " ..	15	Western Packing Co., Winnipeg.	
" 7	"	47458	John Donnelly & Son, Norwood Grove, Man.	1 " ..	20	Swift Canadian Co...	
" 7	"	47459	W. J. Kennedy, Norwood Grove, Man...	1 " ..	20	F. W. Fearman & Co., Hamilton.	
" 7	"	47460	W. T. Francis, Norwood Grove, Man...	1 " ..	20	Gordon Ironsides, Fares Co., Winnipeg.	
" 8	"	47461	T. and B. Grocery, Winnipeg.	1 " ..	20	Western Packing Co., Winnipeg.	

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks, and opinion of the Chief Analyst.
	Water.	Iodine Number (Hanus).	Butyric-acid fractionator at 40° C.	Halphen Reaction.		
JNO. TALBOT, INSPECTOR <i>Concluded.</i>						
Labelled Family Lard.	0 07	65 52	51 3	None	47823	Genuine
"	0 04	60 71	50 4	"	47825	"
"	0 05	61 89	50 6	"	47829	"
Labelled "Star" Brand Pure Lard.	0 12	59 60	50 6	"	47831	"
"	0 09	59 30	50 0	"	47850	"
"	0 07	62 61	50 7	Faint pink.	47851	"
Labelled Pure Lard	0 03	58 77	49 8	None	47852	"
Labelled L. & S. Pure Lard	0 07	63 25	50 9	"	47853	"
"	0 08	60 90	50 3	"	47859	"
"	0 09	59 72	50 1	"	47860	"
Labelled London's T. P. C. Pure Lard.	0 04	55 40	49 7	"	47861	"
"	0 05	60 09	50 1	"	47862	"

A. C. LARIVIERE, INSPECTOR

"	0 03	64 21	51 1	None	47418	Genuine
"	0 11	56 55	51 2	"	47419	"
"	0 01	53 50	51 0	"	47450	"
"	0 02	67 43	50 3	Faint pink.	47451	"
"	0 03	62 56	50 6	Light pink.	47452	"
"	0 02	67 50	51 3	Faint pink.	47454	"
"	0 10	53 84	50 8	None	47455	"
"	0 10	54 92	50 7	"	47456	"
"	0 05	57 81	50 9	"	47457	"
"	0 03	64 23	50 8	Faint pink.	47458	"
"Star Brand"	0 02	62 05	50 4	Pink	47459	"
"	0 03	57 62	49 8	Faint pink.	47460	"
"	0 03	60 32	50 0	None	47461	"

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—							
1911.							
Nov. 8	Lard.....	47462	C. J. Caswell, Winnipeg.	1 lb ..	20	Gallagher, Holman, Lafrance, Winnipeg	
" 8	"	47463	W. Rourke & Co., Winnipeg.	1 " ..	20	Armour & Co.....	
" 8	"	47464	Walter Fee, Winnipeg.	1 " ..	20	Swift Canadian Co., Winnipeg.	Unknown
" 9	"	47465	H. A. Webb (Elmwood), Winnipeg.	1 " ..	15	Unknown	"
" 9	"	47466	Reimer Trading Co., (Elmwood), Winnipeg	1 " ..	20	Swift Canadian Co., Winnipeg.	
" 9	"	47467	R. Beath & Son (Elmwood), Winnipeg.	1 " ..	18	.....
" 9	"	47473	Wm. Coates, Winnipeg	1 " ..	18	Gordon, Ironside & Fares, Winnipeg.	
DISTRICT OF CALGARY—							
Nov. 9	Lard ..	44021	J. T. Bell & Sons, Medicine Hat.	1 lb.	20	Vendors.....	
" 9	"	44022	H. W. Ireland & Co., Medicine Hat.	3 " ..	60	Gallagher, Holman, Lafrance Co., Winnipeg.	
" 9	"	44023	Spencer & Todd, Medicine Hat.	1 " ..	25	Swift Canadian Co., Edmonton.	
" 9	"	44024	L. B. Cochran, Medicine Hat.	1 " ..	25	" " ..	
" 9	"	44025	R. Mitchell, Medicine Hat.	1 " ..	20	Vendor	
" 9	"	44026	LePage Bros., Medicine Hat.	1 " ..	25	Swift Canadian Co., Edmonton.	
" 9	"	44027	Hewitt & Armstrong, Medicine Hat.	1 " ..	25	Gallagher, Holman, Lafrance Co., Winnipeg.	
" 9	"	44028	H. Morrow, Medicine Hat.	1 " ..	25	Swift Canadian Co., Edmonton.	
" 9	"	44029	A. W. Curran, Medicine Hat.	1 " ..	25	" " ..	
" 9	"	44030	J. T. Bell & Sons, Medicine Hat.	1 " ..	25	Vendors.....	
" 20	"	44031	R. J. Frizzle, Calgary.	1 " ..	20	Swift Canadian Co., Winnipeg.	
" 20	"	44032	C. Bradley, Calgary...	1 " ..	20	P. Burns & Co., Calgary.	
" 20	"	44033	Sugden & Morse, Calgary.	1 " ..	20	Swift Canadian Co., Edmonton.	
" 20	"	44034	C. Wrightson & Son, Calgary.	1 " ..	20	Dom. Meat Co., Calgary.	
" 20	"	44035	Jenkins & Co., Calgary.	1 " ..	20	Swift Canadian Co., Edmonton.	
" 20	"	44036	Summers & Comfoot, Calgary.	1 " ..	20	" " ..	
" 22	"	44037	P. Burns & Co., Ltd., East Calgary.	1 " ..	20	Vendors.....	
" 22	"	44038	Hughes Meat Co., Calgary.	1 " ..	20	Swift Canadian Co., Edmonton.	
" 22	"	44039	Swift Canadian Co., Ltd., Calgary.	1 " ..	20	" " ..	
" 22	"	44040	The Dom. Meat Co., Ltd., Calgary.	1 " ..	20	Vendors.....	

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.					Remarks and Opinion of the Chief Analyst.
	Water.	Iodine number (Hanus).	Butyro Refractometer at 40 C.	Rapin Reaction.	No. of Sample.	
A. C. LARIVIERE, INSPECTOR—Concluded.						
		p. c.				
.....	0 03	58 98	49 9	Faint pink.	47462	Genuine
Armours Shield. Pure Lard.	0 04	67 50	51 2	"	47463	"
.....	0 02	67 69	51 4	"	47464	"
.....	0 04	57 34	50 1	"	47465	"
.....	0 03	64 98	50 7	"	47466	"
.....	0 03	64 13	50 9	Light pink.	47467	"
.....	0 04	56 47	49 7	None	47473	"
R. W. FLETCHER, INSPECTOR.						
.....	0 01	61 89	50 3	None	44021	Genuine
.....	0 01	62 75	51 1	Faint pink.	44022	"
.....	0 04	64 24	51 0	Light pink.	44023	"
.....	0 03	65 91	51 1	"	44024	"
.....	0 04	62 16	50 5	None	44025	"
.....	0 02	63 25	51 0	Faint pink.	44026	"
.....	0 02	62 87	51 0	"	44027	"
.....	0 01	65 49	51 1	Pink	44028	"
.....	0 04	66 38	51 0	Light pink.	44029	"
.....	0 03	62 23	50 4	None	44030	"
.....	0 02	66 24	51 2	Faint pink.	44031	"
.....	0 02	63 50	50 5	Pink	44032	"
.....	0 03	67 71	51 3	Faint pink.	44033	"
.....	0 02	62 99	50 5	None	44034	"
.....	0 02	64 21	50 7	Light pink.	44035	"
.....	0 02	64 22	51 0	Faint pink.	44036	"
.....	0 01	63 61	51 0	Red.	44037	"
.....	0 03	65 85	51 4	None	44038	"
.....	0 03	63 50	51 0	Faint pink.	44039	"
.....	0 03	63 50	50 9	"	44040	"

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—

1911.							
Oct. 19	Lard	48436	Trites, Wood Co., Fernie, B.C.	3 lbs.	55	Armour & Co., Chicago.	
" 19	"	48437	"	3 "	55	Swift Can. Co., Edmonton.	
" 19	"	48438	"	3 "	55	P. Burns & Co., Calgary.	
" 27	"	48449	W. R. Braden & Son, Rossland, B.C.	1 pail.	60	Swift Can. Co., Edmonton.	
" 27	"	45454	Union Coop Assoc., Rossland, B.C.	1 "	65	"	
" 27	"	48461	Hunter Bros., Rossland, B.C.	1 "	90	E. H. Stanton & Co., Spokane.	
" 27	"	48462	"	1 "	60	Swift Can. Co., Edmonton.	
" 27	"	48467	N. Laface, Rossland, B.C.	1 "	60	Armour & Co., Chicago.	
" 27	"	48468	P. Burns & Co., Rossland, B.C.	1 "	60	P. Burns & Co., Calgary.	
" 27	"	48469	"	1 lb.	20	Vendors.	
" 28	"	48470	Union Grocery, Nelson.	1 pail.	55	Armour & Co., Chicago.	
" 28	"	48471	"	1 "	55	G. Matthews Co., Peterboro.	
" 28	"	48472	W. W. Harris, Nelson.	1 "	60	P. Burns & Co., Calgary.	
" 28	"	48473	"	1 "	60	Swift Can. Co., Edmonton.	
" 28	"	48474	"	1 "	90	Armour & Co., Chicago.	
" 28	"	48475	P. Burns & Co., Nelson.	1 "	95	Park, Blackwell Co., Toronto.	
" 28	"	48476	"	1 "	95	Armour & Co., Chicago.	
" 28	"	48477	"	1 "	95	P. Burns & Co., Calgary.	
" 28	"	48478	A. S. Horswill, Nelson.	1 "	55	Swift Can. Co., Edmonton.	
" 28	"	48479	"	1 "	55	Armour & Co., Chicago.	

DISTRICT OF VANCOUVER--

Oct. 23	Lard	38235	Vancouver-Prince Rupert Meat Co., Vancouver.	1 lb.	15	Vendors.	
" 23	"	38236	Andrew Reid, Robson st., Vancouver.	1 "	20	Wm. Davies, Toronto	
" 23	"	38237	W. E. Morrison, Public Market, Vancouver.	1 "	20	Swift & Co., Winnipeg.	
" 23	"	38238	Gray & Co., Granville Market, Vancouver.	1 "	20	P. Burns & Co., Vancouver.	
" 23	"	38239	F. R. Stewart, Water st., Vancouver.	1 "	15	Frye & Co., Seattle, Wash.	

SESSIONAL PAPER No. 14

LARD.

RESULTS OF ANALYSIS.

Inspector's Report (Is not an expression of opinion.)	Water.	Loane Number (Harris.)	Payot Re- fractometer at 10°C.	Hulphen Re- action.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
THOS. PARKER, INSPECTOR.						
.....	0 04	68 46	51 6	None	4846	Genuine.
.....	0 04	65 71	51 5	"	4847	"
.....	0 05	63 75	50 8	"	4848	"
.....	1 00	65 98	51 3	Faint Pink.	4849	"
.....	0 00	65 68	51 4	None	4850	"
.....	0 07	64 11	50 9	"	4851	"
.....	0 02	68 17	51 6	"	4852	"
.....	0 10	65 11	52 2	"	4857	"
.....	0 04	61 88	50 7	Faint Pink.	4868	"
.....	0 05	58 55	50 1	None	4869	"
.....	0 05	66 25	51 1	Faint Pink.	4870	"
.....	0 04	62 59	50 6	"	4871	"
.....	1 14	62 88	50 6	"	4872	Excess water. Duplicate sample gave 1 14 p.c. water.
.....	0 01	67 23	51 1	"	4873	Genuine.
.....	0 04	69 60	51 6	"	4874	"
.....	0 13	60 10	51 8	"	4875	"
.....	0 04	65 33	50 9	None	4876	"
.....	0 03	63 27	51 0	Pink...	4877	"
.....	0 04	63 07	51 0	"	4878	"
.....	0 03	60 46	50 1	None	4879	"

J. F. POWER, INSPECTOR.

.....	0 03	60 80	50 5	None	38235	Genuine.
.....	0 03	58 52	50 0	"	38236	"
Guaranteed pure lard.	0 02	64 12	51 0	"	38237	"
.....	0 03	62 75	50 5	Pink..	38238	"
.....	0 03	65 58	51 1	Faint pink..	38239	"

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 VANCOUVER—

1911.							
Oct. 25	Lard.....	38240	Blain's Grocery, Nicola st., Vancouver.	1 lb ..	20	Morrell & Co., Ottumwa, Ia., U.S.A.	.....
" 25	"	38241	W. H. Walsh & Co., Seymour st., Vancouver.	1 " ..	20	P. Burns & Co., Vancouver.	.....
" 25	"	38242	Wm. Crossan, Davie st., Vancouver.	1 " ..	20	.....	.....
" 25	"	38243	J. Atkins, Hamilton st., Vancouver.	1 " ..	20	.....	.....

DISTRICT OF VICTORIA—

Oct. 25	Lard.	47641	Windsor Grocery Co., Victoria.	1 lb ..	20	Frye, Bruhn & Co., Seattle, Wash.	.....
" 26	"	47642	The West End Grocery Co., Ltd., Victoria.	1 " ..	20	Jno. Morrell & Co., Ottumwa, Ia., U.S.A.	.....
" 26	"	47643	"	1 " ..	20	Swift Can. Co., Ltd., Winnipeg.	.....
Nov. 9	"	47644	Copas & Young, Victoria.	1 " ..	20	Jno. Morrell & Co., Ottumwa, Ia., U.S.A.	.....
" 9	"	47645	Wm. B. Hall, Victoria.	1 " ..	20	Swift Can. Co., Ltd., Winnipeg.	.....
" 13	"	47646	Erskine & Co., Victoria	1 " ..	20	" .....	.....
" 15	"	47647	D. H. Ross, Victoria..	1½ " ..	30	Frye Bruhn Co., Seattle, Wash.	.....
" 15	"	47648	Harrison & McDonald, Victoria.	1 " ..	20	Jno. Morrell & Co., Ottumwa, Ia., U.S.A.	.....
" 16	"	47649	E. G. Bailey, Victoria.	1 " ..	25	Frye Bruhn Co., Seattle, Wash.	.....
" 16	"	47650	Acton Bros., Victoria.	3 " ..	55	Swift Can. Co., Ltd., Winnipeg.	.....

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and opinion of the Chief Analyst.
	Water.	Iodine Number (Hanus).	Batyro Refractometer at 40° C.	Halphen Reaction.		

J. F. POWER, INSPECTOR—*Continued.*

	p. c.					
.....	0.03	67.06	51.3	None	38240	Genuine.
.....	6.03	62.48	50.5	Faint pink.	38241	"
.....	0.03	71.33	52.1	Red	38242	Contains cotton seed oil. Adulterated.
Packed by vendor from Burns bulk article.	0.02	61.67	50.5	Faint pink	38243	Genuine.

D. O'SULLIVAN, INSPECTOR.

'Wild Rose' Brand; pure lard.	0.15	67.16	51.9	Faint pink.	47641	Genuine.
Morrell's warranted pure lard	0.05	65.65	51.6	None	47642	"
Swift's 'Silver Leaf' Brand pure lard.	0.06	65.75	51.5	"	47643	"
.....	0.03	65.56	51.3	"	47644	"
.....	0.05	63.62	51.0	Faint pink.	47645	"
Swift's pure lard	0.04	64.46	51.2	"	47646	"
Wild Rose brand pure lard	0.04	65.12	51.0	"	47647	"
Morrell's warranted pure lard	0.02	66.11	51.5	"	47648	"
'Wild Rose' brand pure lard	0.03	68.16	51.4	Light pink.	47649	"
.....	0.04	63.37	51.2	None	47650	"

SUPPLEMENT TO BULLETIN No. 227 FERTILIZERS 1911

CORRECTIONS.

Bulletin No. 227, page 11, sample No. 36942. This sample is found to contain 20·1 per cent. of phosphoric acid. It is identical with sample No. 46637 on page 5 of the same Bulletin, and the percentage of phosphoric acid there given as 12·25 should read 20·1—Sample 46637 is therefore up to its guarantee in phosphoric acid. The mistake was due to confusion of a license number with a registration number, by the Analyst.

APPENDIX B.

BULLETIN No. 238—BUTTER.

OTTAWA, May 14, 1912.

W. M. HIMSWORTH, Esq.,

Assistant Deputy Minister of Inland Revenue.

SIR,—I beg to report upon a collection of 157 samples of butter purchased by our inspectors during February and March of this year.

An official standard for butter is established by an Order-in-Council of November 3, 1910, as follows:—

(G. 934).

Butter Fat, is the fat of milk, and has a Reichert-Meißl number not less than 24 and a specific gravity not less than 0. 905 $\left(\frac{40^{\circ} \text{C.}}{40^{\circ} \text{C.}}\right)$.

Butter is the clean non-rancid product made by gathering in any manner the fat of fresh or ripened milk or cream into a mass, which also contains a small portion of the other milk constituents, with or without salt, and contains not less than 82.5 per cent milk fat and not more than 16 per cent of water. Butter may also contain added colouring matter of harmless character.

The value of butter inheres in the amount and the quality of the fat contained in it. Legal butter must not contain more than 17.5 per cent of other substances than milk fat. These substances are essentially water, salt and curd. It is evident that by increasing the water content of butter, the purchaser may be defrauded, and for this reason a specific maximum for water is fixed by law. This maximum (16 per cent) is evidently much higher than necessary, and the following synopsis of water content actually found in the 157 samples now reported is instructive:—

Less than 1 per cent water in 5 samples.		
"	2	" 6 "
"	10	" 112 "
Above	10	" 33 "
"	16	" 1 "
Total	..	..... 157 "

It is by the introduction of water, rather than by an excess of salt, that the producer can increase the weight of his product, since modern taste objects to the presence of more than 3 or 4 per cent of salt. This is seen in the following resume of the present collection:—

Salt below 1 per cent in 7 samples.		
"	from 1 to 2	" 50 "
"	" 2 to 3	" 51 "
"	" 3 to 4	" 28 "
"	" 4 to 5	" 13 "
"	" 5 to 6	" 5 "
"	" 6 to 7	" 2 "
"	above 7	" 1 "
Total	157 "

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Where a butter contains 3 per cent of salt, it is evident that not more than 14·5 per cent of water can be present, if the butter is legal butter; that is if it contains 82·5 per cent of milk fat, as required by law. It would appear from the above record of water content, that this allowance is ample; and indeed the best butters contain much less than 14·5 per cent of water.

The following statement is instructive as showing that the best butter making provinces furnish a butter with comparatively low water content.

10	samples of butter from Nova Scotia, average 8·38 per cent water.
10	Pr. Ed. Island " 3·93 "
10	New Brunswick " 5·66 "
10	Quebec " 6·31 "
10	St. Hyacinthe " 7·82 "
10	Montreal " 8·23 "
10	Ottawa " 5·13 "
10	Kingston " 6·70 "
10	Toronto " 6·14 "
8	London " 6·14 "
9	Windsor " 6·40 "
10	Manitoba " 11·01 "
10	Calgary " 11·36 "
10	Nelson " 7·66 "
10	Vancouver " 8·25 "
10	Victoria " 9·73 "

This showing becomes more emphatic when considered in relation to the average price of butter in the different provinces.

Province.	Number Samples.	Average Price.	Average Water Content.
		cts.	
Nova Scotia.....	10	30·7	8·38
Prince Edward Island.....	10	29·5	3·93
New Brunswick.....	10	32·4	5·66
Quebec.....	30	37·1	7·46
Ontario.....	47	35·3	6·09
Manitoba.....	10	42·5	11·01
Alberta.....	10	44·0	11·36
British Columbia.....	30	41·2	8·55

It appears from the above, that the price of butter of good quality, varies from 29·5 cents per pound in Prince Edward Island, where it is cheapest, to 44·0 cents per pound in Alberta, where the ruling price is highest. But if we consider the cost of the essential component of butter, namely the milk fat, the difference in price at these two extremes is much greater. Alberta butter averages 2·35 per cent of salt; Prince Edward butter averages 3·01 per cent. So that while 29·5 cents pays for 93·06 per cent butter fat in Prince Edward Island, 44·0 cents pays for only 86·29 per cent butter fat in Alberta. While the nominal difference in price per pound is expressed by the ratio 1 to 1·49 the real difference in cost for the butter fat is 1 to 1·608.

Judging not alone by the present examination, but as the result of analyses recorded in Bulletins No. 219 (211 samples), No. 170 (295 samples), No. 131 (101 samples), &c., I am convinced that the legal maximum of 16 per cent for water in butter is unnecessarily large; and permits of the placing on the market of butter varying too greatly in actual value, to the disadvantage of the consumer and of the butter maker who is careful to avoid the retention of unnecessarily large amounts of water in his product.

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The following tabulation of fat content gives more direct information regarding the milk-fat values of these butters:—

Below 82.5 per cent fat (legal minimum),	4 samples.
82.5 to 85 per cent.	13 "
85 to 86 "	6 "
86 to 87 "	12 "
87 to 88 "	12 "
88 to 89 "	12 "
89 to 90 "	15 "
90 to 91 "	11 "
91 to 92 "	29 "
92 to 93 "	15 "
93 to 94 "	6 "
94 to 95 "	7 "
95 to 96 "	9 "
96 to 97 "	3 "
Above 97 "	3 "
Total	157

Four samples are adulterated, as having less than the legal minimum fat.

The fat is found to be genuine milk fat in every case. In one or two samples it exhibits somewhat exceptional character, but not such as to justify any suspicion of being of foreign origin.

Boric acid is present in ten (10) samples. This does not constitute legal adulteration, under present regulations. The question of allowing preservatives in butter is under investigation. British law permits boric acid up to one-tenth of one per cent.

I beg to recommend the publication of this report as Bulletin No. 238.

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.							
Feb. 23	Table Butter....	47041	Yerxas, Kentville, N.S.	1 lb	25	Unknown	Unknown
" 26	"	47042	J. E. Sanford, Halifax, N.S.	1 "	35	Acadia Creamery Co. Kingston, N.S.	Mfrs.
" 29	"	47043	Ziwick & Co., Lunenburg, N.S.	1 "	26	Unknown	J. F. Turner, Northfield, N.S.
" 29	"	47044	J. S. Berringer, Lunenburg, N.S.	1 "	25	"	R. Brahum, Blockhouse, N.S.
" 29	"	47045	B. G. Oxner, Lunenburg, N.S.	1 "	25	"	H. A. Mader, Barss Corner, N.S.
Mar 4	"	47046	Smith & Proctor, Halifax, N.S.	1 "	36	Crapaud Creamery Co., Crapaud, P.E.I.	Mfrs.
" 4	"	47047	Rooney & Lovett, Halifax, N.S.	1 "	35	Lawrencetown Creamery Co., Lawrencetown, N.S.	"
" 4	"	47048	P. T. Shea, Halifax, N.S.	1 "	35	Bass River Mfg. Co., Bass River, N.S.	"
" 5	"	47049	Truro Market Ltd., Truro, N.S.	"	30	Geo. Chaplin, Middle Stawaackie, N.S.	"
" 6	"	47050	S. Thomson, Dartmouth, N.S.	1 "	35	Unknown	Bank & Williams Halifax, N.S.

DISTRICT OF PRINCE EDWARD ISLAND—

Feb. 19	Table Butter	46146	Beer & Goff, Charlottetown, P.E.I.	1 lb	34	Dunstaffnage Butter Co., Dunstaffnage, P.E.I.	
" 15	"	46147	Brace & McKay Co., Ltd., Summerside, P.E.I.	1 "	25	F. Frelholm, Muddy Creek, P.E.I.	
" 15	"	46148	"	1 "	30	Central Creamery Lot 16, P.E.I.	
" 16	"	46149	R. T. Holman, Ltd., Summerside, P.E.I.	1 "	30	Co-operative Central Creamery, Summerside, P.E.I.	
" 16	"	46150	Sinclair & Stewart, Summerside, P.E.I.	1 "	25	Unknown	
" 19	"	46151	Sanderson & Co., Charlottetown, P.E.I.	1 "	27	"	Sinclair & Stewart, Summerside, P.E.I.
" 21	"	46152	Sterns Bros., Souris, P.E.I.	1 "	30		
" 21	"	46153	Mathew & McLean, Ltd., Souris, P.E.I.	1 "	32	Lakeville Dairying Co., Kings Co., P.E.I.	
" 21	"	46154	J. J. Hughes & Co., Souris, P.E.I.	1 "	30	Unknown	
" 21	"	46155	Sterns Son & Co., Souris, P.E.I.	1 "	32	East Point Dairying Ass'n, Kings Co., P.E.I.	

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TABLE BUTTER.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.					Remarks and Opinion of the Chief Analyst.
	Water.	Salt.	Butyric-acid fractometer reading at 40 C.	Dry saltless Butter.	Free acid.	
R. J. WAUGH, INSPECTOR.						
	p. c.	p. c.		p. c.		
Local Farmer's Butter	9.82	2.59	41.1	87.70	None	47041 Genuine.
Dairy	9.16	4.54	42.1	86.39		47042
	8.04	4.80	42.1	87.16		47043
	8.32	5.90	43.2	85.78		47044
	5.74	2.96	42.6	91.30		47045
	7.68	1.84	42.3	90.48		47046
	9.04	3.74	42.5	87.22		47047
	8.68	2.14	42.6	89.18		47048
	7.82	2.04	42.1	89.24		47049
Dairy	9.54	4.20	41.8	86.26		47050
WM. A. WEEKS, INSPECTOR.						
	2.82	1.60	42.9	95.58	None	46146 Genuine.
	5.24	2.60	43.7	92.16		46147
	6.60	0.70	42.8	92.70		46148
	0.60	3.26	42.8	96.14		46149
	7.80	4.26	42.4	87.94		46150
Tub Butter	0.60	1.80	43.0	97.60		46151
	3.82	5.80	41.6	90.40		46152
	1.44	3.60	42.8	94.96		46153
	3.24	5.34	43.4	91.42		46154
	7.18	1.10	42.8	91.72		46155

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.							
Feb.	7	Table Butter.	45591 M. E. Grass, St. John, N.B.	1 lb.	37	Standard Creamery, St. John, N.B.	
"	7	"	45592 W. Fenwick, St. John, N.B.	1 "	32	Thos. A. Goggin, Albert Co., N.B.	
"	15	"	45593 Harry G. McBeath, St. John, N.B.	1 "	36	Maritime Dairy Co., Sussex, N.B.	
"	15	"	45594 H. S. Francis, St. John, N.B.	1 "	34	Jno. E. McAuley, Lower Mill Stream, Kings Co., N.B.	
"	27	"	45595 Jos. W. Robinson, St. Stephen, N.B.	1 "	30	T. L. Boyd, St. David's Parish, Charlotte Co., N.B.	
Mar.	5	"	45596 M. E. Doohan, Fredericton, N.B.	1 "	30	Unknown	
"	6	"	45597 C. B. Snow, Woodstock, N.B.	1 "	28		Philip Isaacson, Woodstock, N.B.
"	8	"	45598 J. W. McPhail, Perth, N.B.	1 "	30	Unknown	Unknown
"	12	"	45599 Sussex Mercantile Co., Ltd., Sussex, N.B.	1 "	37	Maritime Dairy Co., Ltd., Sussex, N.B.	
"	13	"	45600 Mrs. P. White, Moncton, N.B.	1 "	30		David Steeves, Moncton, N.B.

DISTRICT OF QUEBEC—

Feb.	6	Table Butter.	37348 Arthur Rinfret, 414 Rue St. Joseph, Quebec.	1 lb.	35	Unknown	Dom. Fish Co.
"	7	"	37349 Arthur Drolet, 714 Rue St. Valier, Quebec.	1 "	35	Beurrerie Encienne, Lorrette.	Mfr.
"	7	"	37350 " " " "	1 "	35	Unknown	Charle Damrais, St. Roch des Aul's.
"	8	"	37351 O. Lacroix, 19 Rue St. Joseph, Quebec.	1 "	35	"	P. A. Caron, Village des Aul's.
"	8	"	37352 " " " "	1 "	35	"	"
"	8	"	37353 " " " "	1 "	32	"	Emond & Cote.
"	9	"	37354 Hamel & Bedard, 728 Rue St. Valier, Quebec.	1 "	35	Beurrerie St. Augustin.	Mfr.
"	12	"	37355 Cantin & Frere, 291 Rue St. Joseph, Quebec.	1 "	35	Unknown	J. B. Renaud & Cie.
"	12	"	37356 " " " "	1 "	35	"	Unknown
"	12	"	37357 " " " "	1 "	35	"	"

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TABLE BUTTER.

RESULTS OF ANALYSIS.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.					Remarks and opinion of the Chief Analyst.
	Water.	Salt.	Butyric acidometer reading at 40° C.	Dry Saltless Butter.	Boric acid.		No. of Sample
J. C. FERGUSON, INSPECTOR.						
	p. c.	p. c.	p. c.			
Creamery	6.42	1.94	41.8	91.64	None	45594 Genuine
Country prints.	4.88	1.26	41.3	96.86		45592
	6.34	1.46	43.3	92.20		45593
Dairy	7.08	1.50	43.0	91.42		45594
	6.70	2.08	42.5	91.22		45595
Country prints	5.58	4.00	42.4	90.42		45596
	8.96	6.40	44.0	84.64		45597
	2.78	1.66	43.2	95.56		45598
	4.66	2.74	43.0	92.60		45599
Country prints	6.24	4.10	41.7	89.66		45600
E. X. W. E. BELAND, INSPECTOR.						
	8.86	2.80	44.0	88.44	None	37348 Genuine
	5.80	4.00	43.8	90.20		37349
	9.88	2.00	43.3	88.12		37350
	9.56	1.80	42.6	88.64		37351
	5.64	2.20	43.0	92.16		37352
	8.86	6.86	43.8	84.28		37353
	4.64	3.80	43.9	91.56		37354
	7.94	2.08	44.1	89.98		37355
	4.44	4.26	43.0	94.30		37356
	0.76	2.04	41.9	97.20		37357

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.							
Feb.	19	Table Butter...	39012 R. Bernard, Farn-	1	lb.	38	Unknown...
	20	"	39013 H. Huot, St. Jean...	1	"	38	Gunn's Creamery... Gunn, Langlois & Co., Montreal.
	20	"	39014 F. Giroux, St. Jean...	1	"	40	Morin Bros., Saber- vais,
	21	"	39015 F. X. Gagnon, Ma- gog.	1	"	40	Mathews, Ltd., Montreal.
	22	"	39016 A. Baillargeon, Sher- brooke.	1	"	35	C. McKenzie, Sherbrooke.
Mar.	6	"	39017 Hubert & Jobin, 1 Waterloo.	1	"	38	H. True, Frost Vill- age.
	6	"	39018 E. A. Westover, 1 Knowlton.	1	"	38	Mr. Dussault, Kn- owlton.
	12	"	39013 N. Dufault, Sorel...	1	"	38	Gunn's Creamery... Gunn, Langlois & Co., Montreal.
	19	"	39020 F. Baril, Warwick...	1	"	35	Jos. Birrette, War- wick.
	25	"	39021 Alb. Brodeur, St. 1 Hyacinthe.	1	"	40	A. Casavanet, St. Dominique.

DISTRICT OF MONTREAL--

Feb.	20	Table Butter...	40801 G. H. Falls, St. Ant- oine Market, Mon- treal.	1	lb.	37	Eastern Township Creamery.
	20	"	40802 A. Benoit, St. Antoine 1 Market, Montreal.	1	"	35	
	20	"	40803 " " 1	"	"	37	Gunn, Langlois & Co., Ltd.
	20	"	40804 J. R. Lefebvre, 246 1 St. Antoine St. Montreal.	1	"	37	
	20	"	40805 E. E. Wallace, 100 1 Stanley St., Mon- treal.	1	"	38	
	20	"	40806 Willisson Bros., 20 1 Prince Arthur West, Montreal.	1	"	40	Wm. Carson, Spring- dale Creamery.
	20	"	40807 S. L. Mathawson & 1 Son, 18 Ontario st. East, Montreal.	1	"	40	E. E. Wallace...
	20	"	40808 L. Beauvais, 206 De- montigny, st. West, Montreal.	1	"	38	Gunn, Langlois & Co., Ltd.
	20	"	40809 L. Frankel, 80 De- montigny st., West, Montreal.	1	"	40	
	20	"	40810 " " 1	"	"	38	

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TABLE BUTTER.

Inspector's Report Is not an expression of opinion.	Results of Analysis.					Remarks at Foot of Table of Analyst.
	Water	Salt	Butyric Acid in 100 grams of fat	Free Alkalies in 100 grams	Free acid	
	9.78	1.94	41.9	86.02	None	40812 (100)
	1.72	2.06	43.4	90.22		40813
	5.44	2.72	42.5	91.84		40814
	5.36	1.94	43.3	87.7		40815
	7.70	4.56	44.2	87.74		40816
	10.82	3.30	43.5	85.88		40817
	7.84	2.70	43.0	89.46		40818
	8.58	3.16	44.0	88.36		40819
	9.28	2.70	42.9	88.02		40820
	8.64	2.84	44.3	86.72		40821
J. J. COSTIGAN, INSPECTOR.						
Fall's Special	8.04	2.50	44.2	87.80	None	40801 (100)
	10.24	1.67	44.0	88.09		40802
	11.00	2.20	43.5	87.20		40803
	6.36	2.40	44.0	91.24		40804
	6.06	2.60	44.3	91.34		40805
	7.76	3.08	42.9	89.16		40806
	7.70	1.22	44.2	91.08		40807
	5.28	2.16	43.9	92.56		40808
	10.82	0.20	43.0	88.02	(Present)	40809
Labelled Central Dairy Co.	9.42	0.20	43.3	90.48	None	40810

* Reichert Meissl Number 28.3.

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BULLETIN No. 238—

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.
1912.							
Feb. 2	Table Butter....	50111	The Civil Service Co-op. Supply Asso'cn., Ottawa.	1 lb...	35	Unknown	Moyneur, Ottawa.
" 2	"	50112	J. Bambrick, Ottawa.	1 " ..	35	A. Trudel & Bro., William St., Montreal.	.....
" 2	"	50113	Wall & Co., " ..	1 " ..	35	Unknown	Moyneur, Ottawa.
" 2	"	50114	S. Diannend, By Ward Market, Ottawa.	1 " ..	33	"	Unknown
" 2	"	50115	A. E. Rea & Co., Ltd., Ottawa.	1 " ..	33	"	Moyneur, Ottawa.
" 5	"	50116	H. H. Layng, Smith's Falls.	1 " ..	32	"	Anderson & Langstaff, Kempville.
" 7	"	50117	T. R. Dunkin, Cornwall.	1 " ..	40	"	James Alexander, Ltd., Montreal.
" 9	"	50118	P. A. Huot & Son, Alexandria.	1 " ..	33	"	Unknown.
" 13	"	50119	Stewarts Ltd., Renfrew.	1 " ..	30	"	Mrs. Ferguson, Admaston.
" 19	"	50120	Jos. P. Valiquette, Dalhousie St., Ottawa.	1 " ..	38	"	Moyneur, Ottawa.

DISTRICT OF KINGSTON—

Feb. 5	Table Butter....	49511	Wm. J. Arnil, Kings ton.	1 lb...	38	Eastern Dairy School, Kingston.	.....
" 6	"	49512	Wm. Davies, Kings ton.	1 " ..	38	Maple Leaf Standard Dairy.	.....
" 7	"	49513	H. E. Fairfield, Belleville.	1 " ..	40	G. A. Gillespie, Peterboro'.	.....
" 7	"	49514	Thompson Bros., Belleville.	1 " ..	38	Cold Spring, Toronto.	.....
" 7	"	49515	C. Hilton, Belleville	1 " ..	38	Jersey Lily Dairy...	.....
" 7	"	49516	Geo. Pearson, Belleville.	1 " ..	40	E. B. Mallory, Frankford.	.....
" 8	"	49517	J. H. Heal, Peterboro'.	1 " ..	38	Central Smith Dairy Co.	.....
" 8	"	49518	J. E. Lillico, Peterboro'.	1 " ..	38	S. A. Southworth, Omeme Creamery	.....
" 8	"	49519	H. Bradshaw, Peterboro'.	1 " ..	38	G. A. Gillespie, Peterboro'.
" 8	"	49520	A. Pearson, Peterboro'.	1 " ..	38	Unknown

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TABLE BUTTER.

Inspector's Report (Is not an expression of opinion).	RESULTS OF ANALYSIS.					No. of Sample	Remarks and Opinion of the Chief Analyst.
	Water.	Salt.	Butyro-refractometer reading at 40 C.	Dry saltless Butter.	Boric acid.		
J. A. RICKEY, INSPECTOR.							
Dairy	1.58	7.16	43.1	91.26	None.	50111	Genuine.
Creamery	12.56	2.36	44.2	85.08	"	50112	
Dairy	11.06	3.20	43.2	85.64	"	50113	
"	5.92	3.50	42.2	90.58	"	50114	
"	4.94	3.06	43.8	92.00	"	50115	
"	1.16	2.14	44.2	86.70	"	50116	
Maple Leaf Creamery	2.36	1.70	43.5	96.94	"	50117	
Dairy	5.16	4.78	44.0	90.06	"	50118	
"	0.74	5.36	43.2	94.90	"	50119	
Creamery	5.80	1.50	44.2	92.70	"	50120	

JAS. HOGAN, INSPECTOR.

"	7.98	1.88	42.9	91.14	None.	49511	Genuine.
"	13.70	1.40	43.8	84.90	"	49512	
"	10.04	3.80	43.3	86.16	"	49513	
"	3.80	1.50	44.0	94.70	"	49514	
"	9.08	3.34	42.7	87.68	"	49515	
"	3.26	3.56	42.8	92.18	"	49516	
"	7.04	1.60	42.5	91.36	Present.	49517	
"	3.16	3.18	44.8	93.66	None. ¹	49518	
"	4.42	2.00	44.1	93.58	"	49519	
"	4.52	2.86	43.3	92.62	"	49520	

¹ Reichert Meissl number 29.2.

BULLETIN No. 238--

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.	
				Quality.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF TORONTO -

1912.							
Feb. 7	Table Butter....	49327	The Duff-Jones Co., Ltd., 216 York St., Hamilton.	1 lb.	35		Farmers.....
" 7	"	49328	A. J. Lambert, 17 Market Hall, Hamilton.	1 "	32		Geo. Detweiler, Cargill.
" 14	"	49329	The Wm. Davies Co., Ltd., 1291 Bloor St., Toronto.	1 "	38	Vendors.....	
" 19	"	49330	The Ferguson Produce Co., Shelburne, Ont.	1 "	32		Wm. Shields, Shelburne, Ont.
" 20	"	49331	McDougal & Evans, Ltd., Owen Sound.	1 "	35		
" 20	"	49332	Dan. McClean, Owen Sound.	1 "	37		Farmers.....
" 21	"	49333	C. T. Enright, Collingwood.	1 "	25		"
" 29	"	49334	England & Sons, 758 Bathurst St., Toronto	1 "	33	Vendors.....	
Mc. 1	"	49335	J. McCuaig, Eglington, Ont.	1 "	38		E. Brown, Victoria Square.
" 2	"	49336	Doige Produce Co., 117 Carleton St., Toronto.	1 "	40		D. C. Ross, Brussels, Ont.

DISTRICT OF LONDON--

Feb. 19	Table Butter....	47881	Jones & May, Exeter	1 lb.	31	Unknown.....	Unknown.....
" 20	"	47894	Beacom & Smyth, Clinton.	1 "	30	"	"
" 20	"	47899	Cantelon Bros., Clinton.	1 "	32	"	"
" 20	"	48201	H. Wiltse, Clinton.	1 "	30	A. Innis, Stanley Tp.	
" 21	"	48211	Cardno Bros., Seaforth.	1 "	32	Unknown.....	Unknown.....
" 21	"	48212	T. S. Blues, Seaforth.	1 "	30	Mrs. Kirton.....	
" 22	"	48219	Knechtel Grocery Co., Stratford.	1 "	33	Unknown.....	Unknown.....
" 24	"	48226	A. Beattie & Co., St. Marys.	1 "	38	St. Marys Creamery Co., St. Marys.	

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TABLE BUTTER.

Inspector's Report (Is not an expression of opinion.)	RESULTS OF ANALYSIS.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Salt.	Baume tracometer reading at 40°C.	Dry Salts Butter.	Boic acid.		
H. J. DAGER, INSPECTOR.							
	P.C.	P.C.		P.C.			
.....	4.92	1.89	42.7	93.28	None.	49327	Genuine.
.....	2.20	2.30	42.9	95.50		49328	
Woodside Creamery	8.72	1.80	43.3	89.68	Present.	49329	
.....	3.54	3.56	43.6	92.90	None.	49330	
.....	1.84	3.25	42.8	94.91		49331	
.....	10.84	1.52	42.7	87.64		49332	
.....	2.28	3.42	46.2	94.30		49333	Probably genuine, but fat of exceptional character.
.....	10.76	1.96	43.1	87.28		49334	Genuine.
.....	7.54	3.80	41.8	88.36		49335	
.....	8.62	2.92	42.9	88.46		49336	
ENO. TALBOT, ACTING INSPECTOR.							
.....	7.28	2.58	43.0	91.14	None.	47881	Genuine.
.....	3.12	1.66	42.8	95.22		47894	
.....	6.30	2.70	43.0	91.00		47899	
.....	9.16	4.40	42.5	86.34		48201	
.....	5.52	3.58	42.5	91.90		48211	
.....	6.58	2.20	43.0	91.22		48212	
.....	4.60	0.70	43.0	94.70		48219	
.....	6.60	2.20	42.5	91.20		48226	

¹ Reichert Meissl number 24.9.
Polenske 3.0.
Iodine 45.0.
14—4

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—

1912.							
Feb. 13	Table Butter...	47876	Jas. Noble, Strathroy	1 lb.	32	Miss McIntyre, Adelaide.	
" 13	"	47878	Wm. Cross, Strathroy	1 "	32	Unknown	Unknown
" 6	"	48077	A. J. Clark & Co., London.	1 "	40	Kerwood Creamery Co., Kerwood.	
" 7	"	48081	E. S. English, London	1 "	40	"	
" 7	"	48084	Wm. Hayes, London.	1 "	35	"	Mrs. Ardell.
" 7	"	48088	S. H. Wilson, London East.	1 "	38	Medway Creamery	
" 8	"	48091	Mrs. F. Boug, London West.	1 "	36	Maple Leaf Creamery	
" 8	"	48093	R. W. Jones, London West.	1 "	36	Mrs. Scott.	
" 8	"	48094	J. A. Glin, London West.	1 "	40	Medway Creamery, Arva, Ont.	

DISTRICT OF MANITOBA—

Mar. 13	Table Butter...	47479	C. H. Hoffman & Son, grocers, Winnipeg.	1 lb.	45	Crescent Creamery Co., Winnipeg.	Manufacturers ..
" 13	"	47480	"	1 "	45	Swift & Co., Winnipeg.	"
" 13	"	47481	W. R. Straefer, grocer, Winnipeg.	1 "	35	Unknown	Rosen Salamon, Jarvis Ave., Winnipeg.
" 13	"	47482	D. A. Ritchie, grocer, Winnipeg.	1 "	40	"	The Simpson Produce Co., Winnipeg.
" 14	"	47483	D. G. Macdonald, Portage La Prairie.	1 "	40	The Ideal Creamery Co., Portage La Prairie.	Manufacturers ..
" 15	"	47484	G. T. Grant & Co., grocers, Winnipeg.	1 "	45	The Carson Hygienic Dairy Co., Winnipeg.	"
" 15	"	47485	"	1 "	45	The Crescent Creamery Co., Winnipeg.	"
" 15	"	47486	Hicks & Gillespie, grocers, Winnipeg.	1 "	45	The Carson Hygienic Dairy Co., Winnipeg.	"
" 19	"	47487	Alex. Reid, grocer, Brandon.	1 "	45	The Brandon Creamery & Supply Co., Brandon.	"
" 19	"	47488	A. M. Percival, grocer, Brandon.	1 "	40	"	"

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TABLE BUTTER.

Inspector's Report. (Is not an expression of opinion.)	RESULTS OF ANALYSIS.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Salt.	Butyric fractionator reading at 40°C.	Dry Saltless Butter.	Boric Acid.		
JNO. TALBOT, INSPECTOR							
	p.c.	p.c.					
	3.16	1.56	43.0	95.28	None	47876	Genuine.
	8.60	2.90	43.0	89.50		47878	"
	6.92	1.70	43.3	91.38		48077	"
	6.36	1.88	43.3	91.76		48081	"
	5.46	3.60	43.5	90.94		48084	"
	6.28	1.46	42.7	89.26		48088	"
	9.20	1.50	44.5	86.30		48091	"
	6.16	1.50	43.6	92.34		48093	"
	5.38	2.76	42.8	91.86		48094	"
A. C. LARIVIERE, INSPECTOR							
Present Creamery	15.26	3.16	43.1	81.58	None	47479	Below standard in fat. Adulterated.
Brookfield Creamery	10.90	3.30	43.9	86.70		47480	Genuine.
"	2.54	1.52	43.5	95.94		47481	"
From Cowansville, P. Q.	3.24	1.20	43.6	95.59		47482	"
"	6.10	1.10	43.9	92.80		47483	"
"	13.84	5.50	41.8	80.66		47484	Below standard in fat. Adulterated.
"	13.74	1.46	42.9	84.80		47485	Genuine.
"	13.36	1.66	41.0	84.98		47486	"
"	15.17	3.38	43.5	81.45		47487	Below standard in fat. Adulterated.
"Prairie Rose Creamery	16.82	3.90	42.5	79.28		47488	Below standard in fat and excess water. Adulterated.

¹ Reichert Meissl number, 29.7.
14—4½

² Reichert Meissl number 28.7.

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

DISTRICT OF CALGARY—

1912.							
March 6	Table Butter...	44111	Capital Mercantile Co., Edmonton, Alta.	1 lb.	45	Gilt Edge Creamery, Edmonton.	
" 7	"	44112	Hudson Bay Co., Edmonton, Alta.	1 "	40	Swift Packing Co., Evanstown.	
" 7	"	44113	Acme Co., Edmonton, Alta.	1 "	50	Edmonton City Dairy, Edmonton.	
" 8	"	44114	Hallier & Aldridge, Edmonton, Alta.	1 "	45	Swift Co., Edmonton.	
" 8	"	44115	J. H. Morris & Co., Edmonton, Alta.	1 "	45	Flavelle, Ltd., Lindsay, Ont.	
" 15	"	44116	P. Burns Co., Ltd., Calgary.	1 "	40	Vendors	
" 15	"	44117	Maitland & Co., Calgary.	1 "	45	The Swift Canadian, Calgary.	
" 15	"	44118	Hallett & Longden, Calgary.	1 "	45	" " "	
" 15	"	44119	S. G. Freeze, Calgary.	1 "	45	Campbell & Griffith, Calgary.	
" 15	"	44120	Calgary Cattle Co., Calgary.	1 "	40	P. Burns & Co., Ltd., Calgary.	

DISTRICT OF NELSON—

Feb. 13	Table Butter...	48493	England & Son, Kamloops, B.C.	1 lb.	45	Swift Canadian Co., Edmonton.	
" 13	"	48494	" " "	1 "	45	F. R. Stewart & Co., Vancouver.	
" 13	"	48495	" " "	1 "	40	" " "	
" 13	"	49601	Hudson Bay Co., Kamloops, B.C.	1 "	40	" " "	
" 13	"	49606	Stevens & Alien, Kamloops, B.C.	1 "	40	A. P. Slade & Co., Vancouver.	
" 13	"	49610	P. Burns & Co., Kamloops, B.C.	1 "	40	Vendors, Calgary	
" 20	"	49623	F. L. Rosenberg, Ashcroft, B.C.	1 "	45	New Westminster Creamery Co., New Westminster.	
" 20	"	49624	J. J. Ling & Co., Ashcroft, B.C.	1 "	40	W. H. Malkin Co., Vancouver.	
" 20	"	49625	" " "	1 "	40	Swift Canadian Co., Edmonton.	
" 20	"	49626	" " "	1 "	40	Milne & Gunn, Vancouver.	

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TABLE BUTTER.

Inspector's Report (Is not an expression of opinion.)	RESULTS OF ANALYSIS.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Salt.	Butyro re- fractometer reading at 10 C.	Dry saltless Butter.	Boric acid.		

R.W. FLETCHER INSPECTOR

	p.c.	p.c.	p.c.	p.c.		
.....	12.36	1.52	42.7	86.12	Present.	41111 Genuine.
.....	16.52	2.70	43.5	86.78	None.	41112 ² "
.....	16.49	1.96	43.6	87.70	"	41113 ³ "
.....	7.04	1.90	45.3	91.66	"	41114 ³ "
.....	19.88	3.98	43.7	86.04	"	41115 ³ "
.....	11.56	3.46	43.2	84.78	"	41116 ³ "
.....	13.49	2.96	42.7	84.54	"	41117 ³ "
.....	11.92	1.56	42.9	87.48	"	41118 ³ "
.....	12.34	2.52	43.9	85.14	Present.	41119
"Shamrock" Brand	14.98	2.84	43.6	83.18	None.	41120

THOS. PARKER, INSPECTOR.

	p.c.	p.c.	p.c.	p.c.		
.....	5.20	2.00	45.3	92.89	None.	48493 Genuine.
.....	12.06	1.66	43.2	86.28	"	48494 "
.....	9.14	1.69	42.5	89.26	"	48495 "
.....	3.89	1.60	42.8	95.20	"	49601 "
.....	13.52	2.08	42.3	84.40	"	49606 "
.....	3.14	1.56	44.9	95.30	"	49610 "
.....	6.68	2.00	45.2	91.32	"	49623 "
.....	8.24	2.30	43.3	89.46	"	49624 "
.....	8.06	1.66	43.5	90.28	"	49625 "
.....	6.72	1.58	43.5	91.70	"	49626 "

¹ Reichert-Meissl number, 25.6. ² Reichert-Meissl number, 26.0. ³ Reichert-Meissl number, 28.3.

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 VANCOUVER

1912.							
Feb. 13.	Table butter	38265	J. Graham, Milner, B.C.	1 lb.	40	New Zealand Produce Co., Pahiataua, N.Z.	
" 13	"	38266	Burrows & Carnecross, Cloverdale, B.C.	1 "	40		A. P. Slade & Co., Vancouver.
" 13.	"	38267	H. V. Parr, Cloverdale, B.C.	1 "	35	Unknown	Farmers.....
" 13	"	38268	Lillie's Cash Grocery, Chilliwack, B.C.	1 "	35		A. P. Slade & Co., Vancouver.
" 13	"	38269	Ashwell's Dept. Store, Chilliwack, B.C.	1 "	40	Chilliwack Creamery, Chilliwack, B.C.	
" 14.	"	38270	McFee & Kerr, Abbotsford, B.C.	1 "	35	J. Wolfe, Abbotsford, B.C.	
" 14.	"	38271	S. Brook, Abbotsford, B.C.	1 "	10		F. R. Stewart & Co., Vancouver.
" 14.	"	38272	N. Antier, Abbotsford, B.C.	1 "	45	Abbotsford Valley Creamery, Abbotsford.	
" 15.	"	38273	Bowie's Bakery, Mission Jct., B.C.	1 "	40		A. P. Slade & Co., Vancouver.
" 15.	"	38274	Des Brisay Gen. Store, Mission Jct., B.C.	1 "	40		W. H. Malkin & Co., Vancouver.

DISTRICT OF VICTORIA

Feb. 27.	Table butter	47681	Windsor Grocery Co., Victoria, B.C.	1 lb.	50	Cowichan Creamery Association, Duncan, B.C.	
" 27.	"	47682	Windsor Grocery Co., Victoria, B.C.	1 "	50	Salt Spring Island Creamery, Ganges Harbour, B.C.	
" 28	"	47683	The West End Grocery Co., Ltd., Victoria, B.C.	1 "	35		R. S. Rithet & Co., Victoria, B.C.
" 28.	"	47684	The West End Grocery Co., Ltd., Victoria, B.C.	1 "	40		B. Wilson Co., Ltd., Victoria, B.C.
" 29.	"	47685	D. H. Ross & Co., Victoria, B.C.	1 "	40		Wilson Bros., Victoria, B.C.
" 29.	"	47686	D. H. Ross & Co., Victoria, B.C.	1 "	50	Island Creamery Association, Victoria, B.C.	
Mar. 1.	"	47687	Copas & Young, Victoria, B.C.	1 "	40	The Comox Creamery Association, Courtenay, B.C.	
" 1	"	47688	Wm. B. Hall, Victoria, B.C.	1 "	45	Northwestern Creamery, Victoria, B.C.	
" 6	"	47689	Harrison & McDonald, Victoria, B.C.	1 "	40		Northwestern Creamery, Victoria, B.C.
" 6	"	47690	Acton Bros., Victoria, B.C.	1 "	40		B. Wilson Co., Ltd., Victoria, B.C.

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TABLE BUTTER.

Inspector's Report. Is not an expression of opinion	RESULTS OF ANALYSIS.					Remarks, and Opinion of the Chief Analyst
	Water, %	Fat, %	Proteins, Reading at 40° C.	Dry Salts, Parts per Cent.	Total Acid		No. of Sample.
J. E. POWER, INSPECTOR:						
	13.82	2.20	42.3	81.98	Present	48265 Genuine
	11.84	2.20	43.0	85.96	None	48266
	1.79	1.46	42.9	93.84		48267
	14.26	1.54	43.1	84.20		48268
	9.54	2.1	43.5	97.36	Present	48269
	6.68	1.24	42.1	92.08	None	48270
	7.84	2.00	42.7	90.16		48271
	5.82	2.20	43.7	91.92		48272
	9.84	2.34	42.2	87.82		48273
	7.12	3.20	44.2	89.68	Present	48274
D. O'SULLIVAN, INSPECTOR:						
	10.40	0.50	43.2	89.10	None	47681 Genuine
	9.10	2.20	43.0	88.70		47682
White Clover Creamery	7.10	2.66	44.0	90.24		47683
Finest New England Creamery.	7.24	1.20	42.7	91.56		47684
Anburn Creamery	9.00	1.60	41.1	89.40		47685
Island Creamery	7.88	0.54	42.1	91.58		47686
	10.40	1.40	42.2	88.20		47687
Northwestern Creamery	6.92	1.56	43.4	91.52		47688
	14.24	1.30	42.2	84.46		47689
Lindow Grove Creamery.	15.04	2.26	43.0	82.70	Present	47690

APPENDIX C.

BULLETIN No. 239—CIDER AND SWEET CIDER.

OTTAWA, May 14, 1912.

W. M. HIMSWORTH, Esq.,
Ass't Deputy Minister of Inland Revenue.

SIR.—I beg to report upon sixty-nine (69) samples of beverages sold as Cider or as Sweet Cider.

These terms are defined by Order in Council taking effect from March 13, 1911.

Cider is defined as follows:—

4. Cider, Hard Cider, is the product made by the normal alcoholic fermentation of apple juice, and the usual cellar treatment, and contains not more than seven (7) per cent by volume of alcohol, and in one hundred (100) cubic centimetres (20° C.) of the cider, not less than two (2) grammes nor more than twelve (12) grammes of solids, not more than eight (8) grammes of sugars, in terms of reducing sugars, and not less than twenty (20) centigrammes nor more than forty (40) centigrammes of cider ash.

Of thirty-three samples sold as Cider, twenty-seven samples meet the requirements of legal definition, and must be recognized as genuine, under the Act. Six samples which fail to meet the standards named, appear to have had water added to the apple juice. This is indicated by the small amount of mineral matter (ash) present. Six samples contain preservatives.

Apple Juice or Sweet Cider is defined as follows:—

2. Apple Juice, Apple Must, Sweet Cider, is the fresh fruit juice obtained from apple, the fruit of *Pyrus malus*, has a specific gravity (20° C.) not less than 1.0415 nor greater than 1.0690; and contains in one hundred (100) cubic centimetres (20° C.) not less than six (6) grammes, and not more than twenty (20) grammes of total sugars, in terms of reducing sugars, not less than twenty-four (24) centigrammes nor more than sixty (60) centigrammes of apple ash, which contains not less than fifty (50) per cent of potassium carbonate.

Out of thirty six samples sold as Cider, only eight are found to meet the requirements of the legal definition. It may be urged, in some cases, that the definition quoted does not apply since the articles are labelled with modified names as "Champagne Cider", "Raspberry Cider", &c.; but so long as the word cider appears upon the label, and the beverage is supplied to our inspectors on a demand for cider, it seems proper to judge the article as cider.

In connection with Compound (hyphenated) names, it is important to note that these names must not misrepresent the article. Where one of the components is itself a legal name for a specific article such as Cider, Wine, Coffee, &c., it is evident that the compound name can only apply properly to an article of which the specific constituent in question is the essential or basic part. Thus Coca Wine, implies the presence of wine; Champagne Cider, implies the presence of Cider; Decaffeinated Coffee implies the presence of Coffee, &c.

Our beverage standards provide for the use of the terms Sparkling Cider; Champagne Cider; but define this article as "*Cider*, impregnated with carbonic acid,

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&c." A solution of sugar and flavouring extracts is not cider; and the impregnating of such a solution with gas, does not constitute it a sparkling cider.

Imitations of cider, if labelled so as not to deceive, are legitimate articles, provided they contain nothing injurious to health.

There are certain beverages, such as Ginger Ale, Ginger Beer, Sassafras Beer, Root Beer, &c., which have been long in use, and are well understood to be non-alcoholic, although involving the terms ale and beer, which properly apply to alcoholic beverages. In the case of these articles, it may be pleaded that long usage and public acceptance justifies the name; and it is possible that the plea may hold good. It is not a part of the duty of this Department to make language. This must be decided by popular usage. But it is our duty to see that language is employed in such a way as to guide the purchaser, and not to deceive him. Final ruling in cases of this kind, must be based upon the careful study of the particular matter in hand. So far as I know, nothing else than the juice of apples (fermented or unfermented) is entitled to the term cider used either simply or in combination. Such a name as "Raspberry Cider" means nothing, unless it implies an apple juice flavoured with raspberry.

Such a name as "Boiled Cider" or "Concentrated Cider" or "Condensed Cider," if applied to an article made from cider by boiling, would appear to be perfectly proper, as correctly describing the material sold. If applied to an artificial solution, in imitation of a cider concentrate, it would, of course, be misleading and fraudulent.

There need, I venture to think, be no difficulty in so naming any modification of apple juice as to correctly inform the purchaser regarding what is supplied to him. Apple juice, pure and simple, is not cider, any more than grape juice is wine. Fermentation is essential to the production of cider. The name *Sweet Cider* is recognized, by wide usage, as an equivalent for apple juice.

If it be desired to remove the alcohol from fermented apple juice, the resultant beverage is properly described as dealcoholized cider, or non-alcoholic cider, or by some other plain and intelligible name. If it be desired to keep the alcohol in a cider below a fixed percentage, and this be accomplished by adding water, or sugar and water, to the article, this can correctly be described as watered cider, or diluted cider. But it must not be sold as cider.

It must be clearly understood that the word adulterated in this bulletin, is used conformably to Section 3, g, of the Adulteration Act, which states that "Food shall be deemed to be adulterated if its strength or purity falls below the standard, &c.

This is no suggestion of the addition of anything harmful to health.

Since this is a first inspection under legal definition, it is open to question whether the penalties prescribed by the Act need be enforced. It may be reasonable to regard this inspection and report rather as a means of bringing these recently enacted standards to the notice of the trade, and the public.

The last inspection of cider was made in July and August, 1908; and was reported as Bulletin No. 169 in December of that year.

I would respectfully recommend publication of the present report as Bulletin No. 239

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.		Inspector's Report. (Is not an expression of opinion).
				Quantity	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NOVA SCOTIA—								
1912.								
Feb. 19	Sweet Cider.	47026	Wentzels, Ltd., Halifax, N.S.	3 bots.	25	Annapolis Valley Cider Co., Bridgetown, N.S.	Mfrs.	Sold as Apple Cider.
23	"	47028	Annapolis Valley Cider Co., Bridgetown, N.S.	3 " "	Nil.	Vendors		"
Mar. 6	"	47030	Gas. Rowe, Halifax, N.S.	3 " "	Nil.	Cleveland Cider Co., Ohio, U.S.	Mfrs.	"
DISTRICT OF PRINCE EDWARD ISLAND—								
Feb. 14	Sweet Cider.	46171	R. F. Maddigan & Co., Charlottetown P. E. I.	3 bots.	30	Annapolis Valley Cider Co., Ltd.		
" 16	"	46173	J. Ching, Summerside, P. E. I.	3 " "	30		N. Rathenbury Ltd., Charlottetown P. E. I.	
" 16	Orange Cordial.	46174	J. M. Noonan, Summerside, P. E. I.	3 " "	30	G. E. Barbour & Co., Ltd., St. John, N. B.		
DISTRICT OF NEW BRUNSWICK—								
Feb. 6	Sweet Cider.	45611	W. A. Simonds, St. John, N. B.	3 bots.	60	Annapolis Valley Cider Co., Ltd., Bridgetown, N. S.		Bottled Cider.
DISTRICT OF QUEBEC—								
Feb. 6	Sweet Cider.	37368	Arthur Rinfret, 414 Rue St. Joseph, Quebec.	3 " "	40	F. A. Fleuet, Quebec.	Mfr	
" 7	"	37370	Arthur Drolet, 414 Rue St. Valier, Quebec.	3 " "	18	Chas. Bedard, Quebec.		
" 12	"	37372	Cantin & Frère, 271 Rue St. Joseph, Quebec.	3 " "	18	Eliz. Fortier & Co., Quebec.		
" 13	"	37400	P. Renaud, 537 Rue St. Valier, Quebec.	3 " "	25	F. A. Fleuet & Cie, Quebec.		
DISTRICT OF ST. HYACINTHE—								
Mar. 12	Sweet Cider.	39048	Pierre Paul, Sorel	1 bot.	15	Dme. X. Berard, Sorel.		

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SWEET CIDER.

RESULTS OF ANALYSIS.

Sp. Gr. of Cider at 15°C.	Sp. Gr. of Distillate.	Sp. Gr. of Residue.	Alcohol by Volume.	Grammes per 100cc.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Ash.	Undetermined Solids.	Alkalinity of Ash as K ₂ CO ₃ .	Preservatives.		
R. J. WAUGH, INSPECTOR.													
1.0373	0.9994	1.0383	0.40	9.96	6.87	2.41	9.28	0.21	0.47	0.10	None	47026	Density and ash nearly up to standard.
1.0312	0.9993	1.0316	0.46	8.20	0.84	5.75	6.59	0.11	1.51	0.04	..	47028	Doubtful.
1.0380	0.9992	1.0388	0.53	9.44	3.72	4.54	8.26	0.04	1.14	0.02	..	47030	Density and ash too low. Adulterated.
W.M. A. WEEKS, INSPECTOR.													
1.0213	0.9979	1.0238	1.42	11.17	8.20	0.81	9.01	0.08	2.08	0.05	None	46171	Density and ash low. Adulterated.
1.0275	0.9983	1.0285	1.13	7.28	5.64	None	5.64	0.15	1.50	0.19	..	46173	Density and ash low. Adulterated.
1.0546	0.9979	1.0566	1.42	14.73	10.96	1.80	12.76	0.05	1.92	0.01	..	46174	Not sold as Cider.
J. C. FERGUSON, INSPECTOR.													
1.0300	0.9991	1.0310	0.60	7.86	5.48	1.56	7.04	0.09	0.73	0.04	None.	45611	Density and ash low. Adulterated.
F. X. W. E. BELAND, INSPECTOR.													
1.0273	0.9998	1.0282	0.13	7.50	1.40	5.40	6.80	0.16	0.54	0.005	None.	37368	Density and ash low. Adulterated.
1.0225	0.9995	1.0230	0.33	6.06	4.69	1.28	5.97	0.08	None.	0.02	..	37370	..
1.0320	1.000	1.0320	None.	8.87	0.95	7.70	8.65	0.12	0.10	0.01	..	37372	..
1.0362	0.9998	1.0372	0.11	9.68	1.12	7.39	8.51	0.08	1.10	0.01	..	37400	..
J. C. ROULEAU, INSPECTOR.													
1.0193	0.9996	1.0197	0.33	5.28	0.60	3.40	4.00	0.04	1.24	0.02	None.	39048	Density and ash low, adulterated.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of the Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF MONTREAL—								
1912.								
Feb. 24	Sweet Cider.	49837	Robert Millar, 168 St. Maurice St., Montreal.	3 bots.	30	.....	.....	Bottled by Vendor. Labeled Royal Windsor Champagne Cider.
Mar. 8	"	49839	Harris Co., 158 Desmontigny St., Montreal.	3 "	15	.....	.....	Labeled Christian's Champagne Cider
" 8	"	49840	S. Dionne, 140 Dorchester St. E., Montreal.	3 "	25	.....	.....	Labeled Sweet Apple Cider
DISTRICT OF OTTAWA—								
Feb. 20	Sweet Cider.	50131	Calderone & Bossio, Ottawa.	3 bots.	15	S. Patterson & Co., Toronto.	H.S. Anstiss & Co., Ottawa.	Apple Cider..
" 20	"	50132	H. N. Anstiss, Ottawa.	3 "	15	"	Mfrs..	"
DISTRICT OF KINGSTON—								
Feb. 5	Sweet cider	49531	Geo. Thompson, Kingston.	1 qt.	15	Belleville Cider and Vinegar Co.	.....	.....
" 5	"	49532	E. Beaupre, Kingston.	1 "	15	S. Allen, Norwich.	.....	.....
" 8	"	49554	F. S. White, Kingston.	1 "	10	"	.....	.....
DISTRICT OF TORONTO—								
Feb. 20	Sweet cider.	49363	Taylor & Pringle Co., Ltd., Owen Sound.	3 bots.	15	Vendors	.....	.....
Mar. 4	"	49364	S. Patterson & Co., 318 Berkley st., Toronto.	3 "	25	"	.....	Genuine Apple Cider.
" 4	"	49365	T. B. Franklin, 729 Queen st. East, Toronto.	3 "	10	.....	The Whitby Fruit and Vinegar Co., Whitby.	.....
" 4	"	49366	Mrs. R. Craig, 170 Christie st., Toronto.	3 "	20	.....	Kemp Beverage Co., Toronto.	Champagne Cider.

SESSIONAL PAPER No. 14
SWEET CIDER.

RESULTS OF ANALYSIS.

Sp. Gr. of Cider at 15.5 C.	Sp. Gr. of Discil- late.	Sp. Gr. of Residue.	Alcohol by Vol.	Grammes per 100 CC.								No. of Sample.	Remarks, and Opinion of the Chief Analyst.
				Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Ash.	Unde- termined Solids.	Alkalinity of Ashes K ₂ CO ₃ .	Preser- vatives.		
J. J. COSTIGAN, INSPECTOR.													
1 0183 0	0 9996 1	0 184	0 26	4 64	1 34	3 18	4 52	0 04	0 08	0 02	None	4087	Density and ash low. Adul- terated.
1 0288 0	0 9996 1	0 293	0 26	7 38	1 29	5 50	6 79	0 32	0 27	None		40830	Density and Al- kalinity of ash too low. Ad- ulterated.
1 0271 0	0 9982 1	0 276	1 19	7 22	6 01	6 22	6 23	0 11	0 89	0 04		40840	Density and ash low. Adul- terated.
J. A. RICHKEY, INSPECTOR													
1 0513 0	0 9975 1	0 575	1 73	14 64	10 46	1 75	12 15	0 34	2 15	0 24	Ben- zoic acid.	50131	Genuine.
1 0658	1 000 1	0 659	None	13 53	12 49	None	12 49	0 50	0 74	0 24	" "	50132	
JAS. HOGAN, INSPECTOR.													
1 0155 0	0 9991 1	0 159	0 40	9 52	5 21	1 99	7 20	0 24	2 08	0 18	Sal- cyclic acid.	49531	Density low. Adulterated.
1 0316 0	0 9981 1	0 370	1 26	9 16	7 24	0 23	7 47	0 16	1 53	0 12	Ben- zoic acid.	49532	Density and ash low. Adul- terated.
1 0463 0	0 9992 1	0 067	0 53	11 45	8 70	None	8 70	0 20	2 46	0 25	None	49554	Genuine.
H. J. DAGGER, INSPECTOR													
1 0532 0	0 9982 1	0 547	1 19	15 37	9 78	1 05	10 83	0 30	2 54	0 22	Ben- zoic acid.	49563	Genuine.
1 0596 0	0 9994 1	0 605	0 40	15 27	11 47	1 43	12 90	0 32	2 05	0 24		49564	
1 0736 0	0 9998 1	0 744	0 13	18 81	12 95	2 70	15 65	0 39	2 77	0 25		49565	
1 0373 0	0 9995 1	0 376	0 33	10 82	5 48	3 07	8 55	0 04	2 23	0 02	None	49566	Density and ash low. Adul- terated.

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BULLETIN No. 239—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of the Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF MANITOBA—								
1912.								
Feb. 19.	Champagne.	48616	Carson's Confectionery, Main st. North, Winnipeg.	3 bots.	75	The Blackwoods, Mrs Ltd., Winnipeg.		Orange Pure Fruit Champagne.
" 19.	Sweet cider.	48617	Prairie Restaurant, Main st. North, Winnipeg.	3 "	60	E. L. Drewry, Winnipeg.		Orange Cider.
" 19	"	48619	The White Star Mfg. Co., Winnipeg.	3 "	35	Vendors		"
" 19	"	48620	"	3 "	25	"		Raspberry Cider.
DISTRICT OF CALGARY—								
Mar. 9.	Sweet cider.	44133	Hallier & Aldridge, Edmonton.	3 bots.	60		Brown & Co., Edmonton.	
DISTRICT OF NELSON—								
Feb. 26	Sweet cider.	49635	J. A. McDonald, Nelson.	3 bots.	30	Spokane Cider Works, Spokane, U.S.		
DISTRICT OF VANCOUVER—								
Feb. 19.	Boiled cider.	38305	New Westminster Co-op. Association, New Westminster.	3 bots.	90	W. K. Houston, Victoria, B.C.		Pure Boiled Cider.
" 19	Sweet cider.	38306	Gold Seal Liquor Co., Ltd., Vancouver, B.C.	3 "	45	Am. Fruit Products Co., Rochester, N. Y.		Duffy's refined pure fruit champagne cider. Bottled by Vendors.
" 19	"	38307	F. Filion, Carrall st., Vancouver, B.C.	3 "	75	Pacific Mfg. Co., Victoria, B.C.		Champagne Cider.
" 19	"	38308	Hudson's Bay Co., Vancouver, B.C.	3 "	75		Cross & Co., Vancouver	Allen's pure Apple Cider
DISTRICT OF VICTORIA—								
Feb. 28.	Boiled cider.	49116	The West End Grocery, Victoria, B.C.	3 bots.	100		W. K. Houston & Co., Victoria, B.C.	Pure Boiled Cider.
Mar. 1.	Sweet cider.	49118	Copas & Young, Victoria, B.C.	3 "	66		C. Morely, Victoria, B.C.	Celebrated Oregon cider.

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SWEET CIDER.

RESULTS OF ANALYSIS.

Sp. Gr. of Cider at 15.5 C.	Sp. Gr. of Distillate.	Sp. Gr. of Residue.	Alcohol by Vol.	Grammes per 100 CC.							Preservatives	No. of Sample.	Remarks and Opinion of the Chief Analyst
				Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Ash.	Undeter- mined Solids	Alkalinity of Ash as K ₂ O.			
A. C. LARIVIERE, INSPECTOR													
1 0307 0	9992 1	0317	0 53	7 82	1 49	5 25	6 65	0 12	1 17	0 09	Sali- cyclic acid.	48616	Density and ash low. Not sold as cider.
1 0234 0	9997 1	0240	0 20	11 05	3 49	5 54	8 94	0 22	1 92	0 15	-	48617	Density and ash low. Adul- terated.
1 0122 0	9978 1	0144	1 49	11 43	0 32	8 90	9 22	0 12	1 79	0 10	Ben- zoic acid.	48619	Ash low. Adul- terated.
1 0187 0	9997 1	0496	0 20	13 17	0 26	10 63	10 89	0 14	2 14	0 09	-	48620	
R. W. FLETCHER, INSPECTOR													
1 0106 6	9975 1	0127	1 73	3 29	2 34	None	2 74	0 16	0 79	0 09	Sali- cyclic acid.	4433	Density and ash low. Adul- terated.
THOS. PARKER, INSPECTOR													
1 0415 0	9975 1	0478	1 73	12 97	7 75	1 75	9 50	0 23	2 34	0 18	Ben- zoic acid.	49635	Genuine.
J. E. POWER, INSPECTOR.													
1 2499 0	9987 1	2516	0 86	61 08	44 62	1 75	46 37	1 50	14 81	1 13	Ben- zoic acid.	38305	Concentrated with addition of sugar.
1 0603 0	9898 1	0112	0 13	2 66	0 62	0 57	1 19	0 26	1 21	0 22	None	38306	Density and sugar too low. Adulterated.
1 0298 0	9972 1	0331	1 96	8 28	7 08	None	7 08	0 20	1 00	0 13	-	38307	Density and ash low. Adul- terated.
1 0341 0	9982 1	0360	1 19	8 64	6 92		6 92	0 26	1 52	0 19	Sali- cyclic acid.	38308	Density and ash low. Adul- terated.
D. O'SULLIVAN, INSPECTOR.													
1 2308 0	9998 1	2325	0 79	60 00	47 00	3 52	50 52	1 40	9 08	1 49	Ben- zoic acid.	49116	Concentrated with added sugar.
1 0540 0	9997 1	0542	0 20	13 63	8 67	2 22	10 89	0 27	2 47	0 24	-	49118	Genuine.

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

DISTRICT OF NOVA SCOTIA—

1912.								
Feb. 23	Hard Cider.	47027	P. N. Bishop, Kentville, N.S.	3 bts.	10	F. Drake, New Glasgow, N.S.	Mfr.	Sold as Apple Cider.
Mch. 5	"	47029	F. Drake, New Glasgow, N.S.	3 "	Nil	S. Allen, Norwich, Ont.	"	"

DISTRICT OF PRINCE EDWARD ISLAND—

Feb. 14	Hard Cider.	46172	J. P. Duffy, Charlottetown, P.E.I.	3 bts.	30	S. Allen, Norwich, Ont.	.....	.....
" 21	"	46175	M. A. Paquet, Somis, P.E.I.	3 "	25	Sussex Mineral Spring Co., Sussex, N.B.	.....	.....

DISTRICT OF NEW BRUNSWICK—

Feb. 15	Hard Cider.	45612	Harry G. McBeath, St. John, N.B.	3 bts.	15	.....	Dearborn & Co., St. John, N.B.	Bulk Cider.
Mch. 5	"	45613	Wm. P. Grannan, Fredericton, N.B.	3 "	15	.....	H. Crotty, Fredericton, N.B.	Allen's refined Apple Cider, Norwich, Ont.
" 12	"	45615	Kmg, Asbell & Co., Sussex, N.B.	3 "	15	.....	Willett Fruit Co., St. John, N.B.	.....

DISTRICT OF QUEBEC—

Feb. 7	Hard Cider.	37369	Arthur Drolot, Rue St. Valier, Quebec.	3 bts.	69	Belvil Fruit and Vinegar Co., Bristol.	Langlois & Paradis.
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DISTRICT OF ST. HYACINTHE—

Feb. 20	Hard Cider.	39046	A. C. Poutre, St. Jean.	3 bts.	30	Unknown	Unknown
Mch. 25	"	39049	Thos. Hebert, St. Hyacinthe.	1 "	10	Wilson, Lytle & Badgerow, Toronto.

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HARD CIDER.

RESULTS OF ANALYSIS

Sp. Gr. of Cider at 15°C.	Sp. Gr. of Distillate.	Sp. Gr. of Residue.	Alcohol by Vol.	Total Solids.	Invert Sugar.	Grammes per 100 cc.				Alkalinity of Ash as K ₂ CO ₃ .	Preservatives.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
						Sucrose.	Total Sugar.	Ash.	Undetermined Solids.				
R. J. WAUGH, INSPECTOR.													
1.02050	0.99571	1.0248	3.97	6.26	1.95	None	1.95	0.20	1.11	0.11	None	47927	Genuine.
1.01420	0.99501	1.0198	3.55	1.97	2.66		2.66	0.22	2.00	0.12		47929	
WM. A. WEEKS, INSPECTOR.													
1.02500	0.99641	1.0295	2.58	7.74	6.60	None	6.60	0.20	0.94	0.10	None	46172	Genuine.
1.02910	0.99711	1.0327	2.04	8.39	7.08		7.08	0.10	1.17	0.08		46177	Ash too low. Apple juice watered. Adulterated.
J. C. FERGUSON, INSPECTOR.													
1.03600	0.99571	1.0405	3.07	9.79	7.24	0.05	7.29	0.36	2.14	0.32	Ben- zoic Acid.	45912	Genuine.
1.02670	0.99661	1.0305	2.43	7.47	6.23	None	6.23	0.24	1.00	0.10		45643	
1.00670	0.99491	1.0141	5.86	3.14	0.95		0.95	0.10	1.89	0.21	Salic cyclic Acid.	45915	
F. X. W. E. BELAND, INSPECTOR.													
1.02160	0.99271	1.0281	5.24	7.22	4.84	None	4.84	0.24	2.14	0.20	None	37369	Genuine.
L. C. ROULEAU, INSPECTOR.													
1.00590	0.99121	1.0148	6.48	3.52	1.64	0.29	1.84	0.30	1.38	0.25	None	39046	Genuine.
1.03330	0.99251	1.0165	5.39	2.22	0.74	None	0.74	0.10	1.38	0.07		39049	Ash too low. Apple juice watered. Adulterated.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF MONTREAL—								
1912.								
Feb. 24	Hard Cider.	40836	Robert Millar, 168 St. Maurice St., Montreal.	3 bots.	30			Allen's Apple Cider. Bottled by Vendor.
Feb. 8	"	40838	J. T. Mallette, Ontario Street East, Montreal.	3 "	30			Labeled Millar's Celebrated Genuine Sparkling Apple Cider
DISTRICT OF OTTAWA—								
Feb. 20	Hard Cider.	50133	C. Stratton, Ottawa.	3 bots.	15	Allen, Norwich, Ont.	C. E. Plain, Ottawa.	Apple Cider..
" 20	"	50134	Bate & Co., Ottawa.	3 "	75	Ross Bros., Liverpool, Eng.	Chas. Parker, Ottawa.	Ross' Sparkling Devonshire Cyder.
" 21	"	50135	A. E. Rea & Co., Ltd., Ottawa.	3 "	75	S. Allen, Norwich, Ont.	C. E. Plain, Ottawa.	Apple Cider..
DISTRICT OF KINGSTON—								
Feb. 7	Hard cider	49525	S. Fort, Port Hope.	1 qt.	10	S. Allen, Norwich, Ont.		
" 7	"	49535	W. D. Stephens, Port Hope.	1 "	10	"		
DISTRICT OF TORONTO—								
Feb. 8	Hard cider	49362	A. Ballentine & Bros., 171 John St., South Hamilton.	3 bots.	15	S. Allen, Norwich, Ont.		
DISTRICT OF WINDSOR—								
Feb. 12	Hard cider	47871	A. H. Gammon & Son, Sarnia.	3 bots.	8		S. Allen, Norwich.	
" 13	"	47874	W. H. Trecker, Sarnia.	3 "	5		"	
" 13	"	47875	Peter Clark, Sarnia.	3 "	8	Whitby Cider & Vinegar Co., Whitby, Ont.		

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HARD CIDER.

RESULTS OF ANALYSIS.

Sp. gr. of cider at 15°C.	Sp. gr. of Distillate.	Sp. gr. of Residue.	Alcohol by Volume.	Total Solids.	Gramms per 100cc.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
					Invert Sugar.	Sucrose.	Total Sugar.	Ash.	Undetermined Solids.	Alkalinity of Ash as K_2CO_3.			Preservatives.
J. J. COSTIGAN, INSPECTOR.												
1 0271 0 9935 1 0338	4 63	8 30	7 45	None	7 45	0 26	0 59	0 19	None	40836	Genuine.	
1 0072 0 9909 1 0159	6 63	3 92	1 34	1 24	2 58	0 21	1 13	0 18		40838		
J. A. RICKEY, INSPECTOR.												
1 0292 0 9952 1 0345	3 42	9 1	6 97	0 62	7 59	0 31	1 24	0 24	None	50133	Genuine.	
1 0211 0 9944 1 0272	3 98	6 7	5 43	None	5 43	0 27	1 63	0 17		50134		
1 0135 0 9941 1 0190	4 20	4 8	4 69		4 69	0 12	0 63	0 14		50135	Ash, too low. Apple juice watered. Ad. altered.	
JAS. HOGAN, INSPECTOR.												
1 0227 0 9954 1 0276	3 28	6 96	4 69	1 60	5 69	0 25	1 02	0 43	None	49625	Genuine.	
1 0263 0 9944 1 0321	3 98	8 02	5 91	0 20	6 11	0 28	1 63	0 19		49538		
H. J. DAGGER, INSPECTOR.												
1 0140 0 9922 1 0217	5 63	5 04	2 76	0 38	3 14	0 28	1 62	0 26	None	49662	Genuine.	
JNO. TALBOT, INSPECTOR.												
1 0520 0 9957 1 0197	3 97	6 44	3 16	0 95	4 11	0 29	2 04	0 29	None	47871	Genuine.	
1 0010 0 9905 1 0165	6 94	2 68	0 52	0 12	0 64	0 32	1 59	0 26		47874		
1 0199 0 9940 1 0253	5 00	6 15	3 51	2 50	5 01	0 50	0 81	0 24	Ben- zoic acid.	47875		

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cost.	Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
						Manufacturer.	Furnisher.	
DISTRICT OF MANITOBA—								
1912.								
Feb. 19	Hard cider	48618	The Blackwood Ltd., Winnipeg.	3 bots.	Nil.	Vendors		Apple cider
DISTRICT OF CALGARY—								
Mar. 9	Hard cider	44131	Acme Co., Edmonton	3 bots.	60	Annapolis Valley Cyder Co., Ltd., Bridgetown, N.S.		
" 9	"	44132	A. C. Dempsey, Edmonton.	3 "	60		A. C. McDonald Co., Edmonton.	
" 9	"	44134	Edmonton Wine Spirit, Co., Edmonton.	3 "	90	Paul Taintier, France.		
" 13	"	44135	Hudson Bay Co., Calgary.	3 "	75	Annapolis Valley Cyder Co., Ltd., Bridgetown, N.S.		
DISTRICT OF NELSON—								
Feb. 13	Hard cider	48500	Hudsons Bay Co., Kamloops, B.C.	3 bots.	1 50	Bulmer & Co., Hereford, Eng.		
" 13	"	49611	Wilson Grocery Co., Kamloops, B.C.	3 "	75	Annapolis Valley Cyder Co., Ltd., Bridgetown, N.S.		
" 20	"	49622	Carlson & Nelson, Savona, B.C.	3 "	45	Cross & Co., Vancouver.		
DISTRICT OF VANCOUVER—								
Feb. 19	Hard cider	38309	London Grocery Co., Ltd., Vancouver, B.C.	3 bots.	75	T. P. Griffin & Co., Liverpool, Eng.		The pure juice of Devonshire apples.
DISTRICT OF VICTORIA—								
Feb. 27	Hard cider	49115	Windsor Grocery Co., Victoria, B.C.	3 bots.	75	T. P. Griffin & Co., London, Eng.		Devonshire cider.
" 29	"	49117	D. A. Ross & Co., Victoria, B.C.	3 "	75		Kelly Douglas Co., Ltd., Vancouver.	Ontario cider.
Mar. 6	"	49119	Harrison & McDonald, Victoria, B.C.	3 "	75		W. O. Wallace, Victoria.	Champagne cider.

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HARD CIDER.

RESULTS OF ANALYSIS.											Remarks and Opinion of the Chief Analyst.		
Sp. gr. of cider at 15°C.	Sp. gr. of Distillate.	Sp. gr. of Residue.	Alcohol by Volume.	Total Solids.	Grammes per 100cc.							No. of Sample.	
					Invert Sugar.	Sucrose.	Total Sugar.	Ash.	Undeter- mined Solids.	Alkalinity of Ash as K ₂ CO ₃ .			Preservatives.
A. C. LARIVIÈRE, INSPECTOR.													
1 0223 0	9923 1	0299	5 55	7 29	4 84	None	4 84	0 26	2 19	0 20	None	4848	Genuine.
R. W. FLETCHER, INSPECTOR.													
1 0246 0	9937 1	0313	4 49	7 67	6 97	None	6 97	0 09	0 61	0 06	None	4431	Ash too low. Apple juice watered. Ad- ulterated.
1 0278 0	9966 1	0312	2 43	7 72	6 65		6 65	0 21	0 86	0 41		4432	Genuine.
1 0178 0	9924 1	0256	5 47	6 31	4 69		4 69	0 22	1 49	0 12		4434	
1 0287 0	9965 1	0324	2 51	8 01	6 64		6 71	0 12	1 09	0 90		4435	Ash too low. Apple juice watered. Ad- ulterated.
THOS. PARKER, INSPECTOR.													
1 0155 0	9925 1	0229	5 49	5 78	3 73	0 05	3 78	0 24	1 76	0 18	None	4800	Genuine.
1 0239 0	9963 1	0281	2 62	6 96	5 59	0 31	5 90	0 17	0 89	0 10		4961	Ash too low. Apple juice watered. Ad- ulterated.
1 0266 0	9951 1	0312	3 49	8 01	6 28	None	6 28	0 21	1 52	0 15	Ben- zoin acid.	4962	Genuine.
J. F. POWER, INSPECTOR.													
1 0168 0	9940 1	0228	4 27	5 68	3 94	None	3 94	0 21	1 53	0 14	None	3806	Genuine.
D. O'SULLIVAN, INSPECTOR.													
1 0145 0	9933 1	0212	4 78	5 22	4 00	None	4 06	0 22	1 00	0 15	None	4915	Genuine.
1 0158 0	9965 1	0253	6 94	6 45	4 84		4 84	0 20	1 41	0 13		4917	
1 0300 0	9918 1	0382	5 94	9 28	7 08		7 08	0 22	1 98	0 17	Ben- zoin acid.	4919	

APPENDIX D.

BULLETIN No 240--BAKING POWDERS.

OTTAWA, May 28, 1912.

WM. HIMSWORTH, Esq.,
Assistant Deputy Minister,
Inland Revenue Department,
Ottawa.

SIR,— I beg to hand you a report upon 150 samples of baking powders, collected throughout Canada in October and November last.

Baking powders have been examined, in the large way, on four different occasions, since the Adulteration Act came into force, the last inspection being reported in Bulletin 174 (February, 1909).

This article warrants examination from two points of view ; first, its efficiency as a gas producer for baking purposes ; second, as regards the wholesomeness of the materials from which it is made, and the residues left in the finished bread.

So far as the present report is concerned, the baking powders found upon the Canadian markets may be arranged in four classes, on the basis of their essential acid components, as follows :—

	Samples.
Alum phosphate powders	68
Cream of tartar “	16
Acid phosphate “	31
Alum powders	5
Total	150

No complaint, upon the ground of wholesomeness, has been formulated against cream of tartar or acid phosphate powders, to my knowledge. The wholesomeness of such as contain alum, either as the sole acid component, or in combination with acid phosphate of lime, has frequently been questioned, and is, at present, an unsettled point. The matter is now in the hands of a Referee Board at Washington, D.C., composed of men whose qualifications and character are such as to command the respect of the scientific world. I am, for this reason, unwilling to open the question of alum as a material in baking powder ; preferring to await publication of the results obtained by the aforesaid Referee Board.

As regards the effectiveness of baking powders of the above classes, we have the following to record :—

68 alum phosphate powders, average	10·78	per cent gas.
46 cream of tartar “ “	11·01	“ “
31 acid phosphate “ “	11·25	“ “
5 alum powders average	12·40	“ “

After much consideration of the matter, and conference with manufacturers, I am of opinion that it is reasonable to require all baking powders, as sold, to yield a minimum of ten (10) per cent available gas.

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These powders, as made, usually contain a slight excess of bi-carbonate of soda, so that the further addition of an acid gives a certain further amount of gas, called residual gas. This residual gas is not available in baking, except when sour milk, or other acid ingredient is added to the bread. For purposes of judging the value of a baking powder, the available gas should alone be considered.

From this point of view thirty-five (35) samples are below standard strength, twenty-three (23) of these being more than one per cent below the standard, and several of them being much more than one per cent below. Details are as follow:

Acid phosphate powders

Less than one per cent below	6
More " " "	11

17

Cream of tartar powders

Less than one per cent below	6
More " " "	7

13

Phosphate powders

More than one per cent below	5
------------------------------	---

Total	35
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It is in the nature of a baking powder to deteriorate (in the sense of yielding gas by keeping), the rate of deterioration depending much upon the hygroscopicity of the materials; their initial dryness; the way in which it is packed, and the conditions under which it is stored. It is clear that so far as length of time in stock, and conditions of storage are concerned, the manufacturer of the powder is irresponsible, for this reason, the retail vendor must be held responsible for the strength (gas producing power) of the article he sells. He should assure himself of the quality of the goods he buys, for his own protection; and this is provided for in section 33 of the Act, for their condition as he sells them, he must hold himself responsible.

Since we have as yet, no legal minimum prescribed for the strength of baking powders, none of those now reported can be described as adulterated under the Act. A glance at the tables accompanying this report will show that baking powder of very varying strength is offered for sale; and will emphasize the necessity of fixing a minimum gas producing power for a legal baking powder.

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—

1911.							
Oct.	16	Baking Powder.	46711 F. L. Seldon & Son, Liverpool, N.S.	3 pkgs	25	E. W. Gillett Co., Toronto.	Unknown.
"	18	"	46712 H. C. Barnaby & Son, Bridgewater, N.S.	3 "	45	Nat. Drug Co., Halifax, N.S.	Mfrs.
"	18	"	46713 H. E. Hall, Bridge-water, N.S.	3 "	30	E. W. Gillett Co., Toronto.	Jno. Tobin & Co., Halifax.
"	25	"	46714 Nat. Drug & Chem. Co., Halifax, N.S.	$\frac{3}{4}$ lb.	30	Vendors.	
"	25	"	46715 J. Frank Crowe Co., Ltd., Halifax.	3 pkgs	12	E. W. Gillett Co., Toronto.	Mfrs.
"	25	"	46716 Bauld Bros., Ltd., Halifax, N.S.	3 "	10	W. M. D. Pearman, Halifax.	Mfr.
"	26	"	46717 W. M. D. Pearman, Halifax, N.S.	3 "	10	Vendor	
"	26	"	46718 W. J. Fornstall & Co., Halifax, N.S.	3 "	15	W. M. D. Pearman, Halifax.	Mfr.
"	27	"	46719 Wentzell's Ltd., Halifax, N.S.	3 "	25	White Swan Mills, Toronto, Ont.	Mfrs.
"	27	"	46720 Woodhill Mfg. Co., Halifax, N.S.	3 "	10	Vendors.	

DISTRICT OF PRINCE EDWARD ISLAND—

Oct.	16	Baking Powder.	46136 John McKenna, Charlottetown, P.E.I.	$\frac{3}{4}$ lb.	45	Johnson's Powder Co., New Jersey.	
"	16	"	46137 R. T. Maudigan & Co., Charlottetown, P.E.I.	1 $\frac{1}{2}$ lb.	60	Johnson & Johnson, Charlottetown, P.E.I.	
"	17	"	46138 S. Sanderson & Co., Charlottetown, P.E.I.	1 $\frac{1}{2}$ "	45	E. W. Gillett Co., Ltd., Toronto, Ont.	
"	18	"	46139 M. Duffy, Charlottetown, P.E.I.	$\frac{3}{4}$ "	30	The St. John Coffee & Spice Mills, St. John, N.B.	
"	18	"	46140 Stewart & Son, Charlottetown, P.E.I.	$\frac{3}{4}$ "	20	Snowdon Forbes & Co., Montreal.	
"	20	"	46141 Kier & McFadyen, Kensington, P.E.I.	$\frac{3}{4}$ "	45	Nat. Drug & Chem. Co., Halifax, N.S.	
"	21	"	46142 Jas. Kennedy, Kensington, P.E.I.	1 lb.	60	Mayell & Co., Toronto, Ont.	
"	21	"	46143 McLellan & Co., Ltd., Summerside, P.E.I.	1 "	50	Pepsind Baking Powder Co., Montreal.	
"	21	"	46144 Brace McKay & Co., Summerside, P.E.I.	1 "	50	Pure Gold Mfg. Co., Ltd.	
"	26	"	46145 D. J. McLean, Montague, P.E.I.	$\frac{3}{4}$ lb.	30	The Robt. Greigg Co., Ltd., Toronto.	

DISTRICT OF NEW BRUNSWICK—

Oct.	12	Baking Powder.	45570 Dearborn & Co., St. John, N.B.	3 pkgs	30	Vendors.	
"	14	"	44571 H. W. Cole, Ltd., St. John, N.B.	3 "	22	E. W. Gillett Co., Ltd., Toronto.	
"	22	"	45572 E. W. Rowley, St. John, N.B.	3 "	30	Hamilton Coffee and Spice Co., Ltd.	

SESSIONAL PAPER No. 14

BAKING POWDERS.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS			Character of Powder.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Carbon Dioxide.					
	Available.	Residual.	Total.			
R. J. WAUGH, INSPECTOR.						
	p. c.	p. c.	p. c.			
Magie Brand	10.74	1.55	12.29	Alum. Phosphate	46711	
St. George Brand	9.79	1.50	11.09	Cream of Tartar	46712	Below standard (slightly).
Magie Brand	6.48	1.32	7.80	Alum. Phosphate	46713	Below standard.
Sample taken from bulk	12.65	0.72	13.37	Cream of Tartar	46714	
Magie Brand	7.43	1.46	8.59	Alum. Phosphate	46715	Below standard.
Woodill's German Brand	10.15	2.82	12.97	Cream of Tartar	46716	
" "	8.57	1.57	10.14	" "	46717	Below standard.
" "	7.57	0.09	7.66	" "	46718	
White Swan Brand.	11.49	1.76	12.95	Phosphate	46719	
New Process Brand	9.87	1.74	11.61	Cream of Tartar	46720	Below standard (slightly).
WM. A WEEKS, INSPECTOR.						
" "	11.62	0.43	12.05	Cream of Tartar	46136	
" "	11.59	1.61	13.23	" "	46137	
" "	11.95	0.58	12.53	Phosphate	46138	
" "	9.76	1.24	11.00	Cream of Tartar	46139	Below standard (slightly).
" "	5.42	1.70	6.82	Phosphate	46140	Below standard.
" "	8.36	1.72	11.08	Cream of Tartar	46141	Below standard.
" "	11.37	0.32	11.69	Alum. Phosphate	46142	
Old Stock	4.86	1.74	6.60	Phosphate	46143	Below standard.
" "	9.46	0.06	9.52	Cream of Tartar	46144	Below standard (slightly).
" "	7.46	0.94	8.40	Phosphate	46145	Below standard.
J. C. FERGUSON, INSPECTOR.						
Perfect brand	13.09	0.65	13.74	Cream of Tartar	45370	
" "	12.46	0.68	13.14	Phosphate	45371	
Invincible 402, McLaron's purity, not guaranteed.	8.94	0.62	9.56	Cream of Tartar	45372	Below standard.

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—

1911.							
Nov.	7	Baking Powder.	15573 The Yerca Grocery Co., Fredericton, N.B.	3 pkgs	40	Dearborn & Co., St John, N.B.	
"	8	"	15574 Wolverton & Gibson, Woodstock, N.B.	3 "	45	Todhunter, Mitchell & Co., Toronto.	
"	10	"	15575 F. D. Sadler, Perth, N.B.	3 "	48	Royal Baking Powder Co., New York.	
"	14	"	45576 J. A. Davidson, Sussex, N.B.	1 "	25	Nat. Drug & Chem. Co., Ltd., Canada.	
"	15	"	45577 J. A. Roy, Moncton, N.B.	3 "	30	E. W. Gillett Co., Ltd., Toronto.	
"	16	"	45578 George Stables, New castle, N.B.	3 "	45	Hamilton Coffee and Spice Co., Hamilton, Ont.	
"	17	"	45579 W. J. Kent & Co., Ltd., Bathurst, N.B.	3 "	30	E. W. Gillett & Co., Ltd., Toronto, Ont.	

DISTRICT OF QUEBEC—

Oct.	12	Baking Powder.	37328 Gantin & frere, 271 Rue St. Joseph, Que.	3 pkgs.	30	Unknown.	Unknown.
"	13	"	37329 G. Gingras, 268 Rue du Roi, Que.	3 "	30	McLaren's, Hamilton Mfrs.	
"	16	"	37330 O. Lacroix, 19 Rue St. Joseph, Que.	3 "	30	E. R. Durkee.	J. B. Renaud & Cie.
"	16	"	37331 " " " "	3 "	15	W. D. McLaren.	N. Turcot & Cie.
"	16	"	37332 " " " "	3 "	30	La National, 46 Rue St. Pierre, Que.	J. B. Renaud & frere
"	16	"	37333 " " " "	3 "	20	Duffy & Co., Montreal	J. B. Renaud & Cie.
"	16	"	37334 J. E. Gregoire, 128 Rue du Pont, Que.	3 "	30	E. W. Gillett Co., Ltd., Toronto.	Mfrs.
"	17	"	37335 W. Cantin, 133 Rue du Pont, Que.	3 "	21	Unknown.	Unknown.
"	17	"	37336 " " " "	3 "	45	J. J. Duffy, Montreal	
"	19	"	37337 Elzear Gangon, 138 Rue D'Orchester, Que.	3 "	30	E. R. Durkee, Montreal	Bedard et frere, Que. real.

DISTRICT OF ST. HYACINTHE—

Oct.	25	Baking Powder.	1182 J. A. Menard, Farnham.	1 box.	10	The F. F. Dalley Co., Ltd., Hamilton.	
"	25	"	1183 J. E. Baillargeon, Farnham.	3 "	30	E. W. Gillett Co., Ltd., Toronto.	
"	26	"	1184 Levis Bergeron, Waterloo, P.Q.	1 "	15	Unknown.	
"	26	"	1185 Boright & Safford, Sutton, P.Q.	1 "	20	The Brodies Mfg. Co., Montreal.	
Nov.	6	"	1186 May & Houlahan, Sherbrooke, P.Q.	1 "	25	W. D. McLaren, Ltd., Montreal.	
"	8	"	1187 J. O. Moreau, Megantic.	1 "	25	Herron Leblanc, Ltd., Montreal.	

SESSIONAL PAPER No. 14

BAKING POWDERS.

Inspector's Report. Is not an expression of opinion.	RESULTS OF ANALYSIS.				Remarks and opinion of the Chief Analyst.
	Carbon Dioxide.			Character of Powder.	
	Available	Residual	Total		
J. C. FERGUSON, INSPECTOR <i>Continued.</i>					
	p. c.	p. c.	p. c.		
.....	11.41	0.86	11.97	Cream of Tartar	45573
.....	11.38	0.46	11.54		45574
.....	11.82	0.39	12.21		45575
St. George brand	8.45	1.41	9.56		45576 Below standard.
.....	12.39	0.40	12.79	Phosphate	45577
M. Laurin's Invariable	8.42	0.93	9.35	Cream of Tartar	45578 Below standard.
.....	12.70	0.28	12.98	Phosphate	45579
E. X. W. E. BELAND, INSPECTOR					
.....	13.20	0.60	13.80	Phosphate	37332
.....	10.90	1.50	12.40	Alum. Phosphate	37332
.....	13.50	0.20	13.70	Cream of Tartar & a little phosphate	37333
.....	9.90	1.40	11.00		37334 Below standard slightly
.....	14.40	0.80	15.20	Alum.	37332
.....	10.80	0.30	11.10	Alum. Phosphate	37333
.....	11.40	1.20	12.60	Phosphate	37334
.....	12.50	0.60	13.10	Cream of Tartar & a little phosphate	37335
.....	10.70	1.20	11.90	Alum. Phosphate	37336
.....	12.00	0.20	12.20	Cream of Tartar & a little phosphate	37337
J. C. ROULEAU, INSPECTOR.					
Guaranteed pure by mfrs.	10.53	1.44	11.97	Alum. Phosphate	4182
.....	11.80	0.33	12.43	Phosphate	4183
Box marked "Fabrique pour Louis Bergeron."	12.75	1.23	13.98		4184
.....	13.44	0.59	13.73	Alum. Phosphate	4185
Cook's Friend	10.33	1.07	11.40	Cream of Tartar	4186
Yeastine	12.44	2.62	15.06	Alum. Phosphate	4187

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—

1911.							
Nov. 9	Baking Powder.	1188	D. S. Bachand, Coaticook.	1 box.	20	The Brodies, Montreal.	
" 10	"	1189	C. H. Kathan, Rock Island, P.Q.	1 "	25	Royal Baking Powder, New Jersey.	
" 22	"	1191	R. Goulet, Sorel.	3 "	15		J. V. Boudrais, Montreal.
" 23	"	1192	E. Brunnette, St. Hyacinthe.	3 "	15	O. Lefebvre, Montreal.	

DISTRICT OF MONTREAL—

Oct. 17	Baking Powder.	40921	O. Sansregret, 500 Du-luth Ave. E., Montreal.	3 tins.	15	Unknown.	
" 18	"	40922	G. W. Barsalo, 1067 St. James St., Montreal.	3 "	30	S. H. Ewing & Sons, Montreal.	
" 18	"	40923	J. O. Pompart, 340 Seigneurs St., Montreal.	3 "	45	Alredie Pure Food Co., Ltd., Montreal.	
" 18	"	40924	U. Bosquet, 892 Notre Dame West, Montreal.	3 "	30	E. W. Gillett Co., Ltd., Toronto.	
" 18	"	40925	" " "	3 "	15	Ocean Mills, Montreal.	
" 18	"	40926	Archanbault freres, 747 Notre Dame West, Montreal.	3 "	30	J. J. Duffy & Co., Montreal.	
" 19	"	40927	Harris & Co., 158 De Montigny E., Montreal.	3 "	30	Canada Coffee and Spice Mills, Montreal.	
" 19	"	40928	H. Lagace, 252 Amherst St., Montreal.	3 "	25	Windsor Mills, H. L. Co., Ltd., Montreal.	
" 19	"	40929	Thomas Dulude, 486 Lagachetiere St., Montreal.	3 "	45	Bijou Mills, Montreal.	
" 19	"	40930	J. V. Boudrais, 223 Notre Dame East, Montreal.	3 "	25	Vendor.	

DISTRICT OF OTTAWA—

Oct. 10	Baking Powder.	49031	Alex. Sibbitt, Carleton Place.	3 tins.	30	Gorman, Eckert & Co., Ltd., London, Ont.	
" 12	"	49032	E. C. Armand, Arnprior.	3 "	45	"	
" 13	"	49033	Mundie & Percival, Kemptville.	3 "	75	Unknown.	Unknown.
" 14	"	49034	F. W. Forde, Ottawa.	3 "	1 50	The Brodie Mfg. Co., Montreal.	
" 16	"	49035	Jas. E. Lindsay, Almonte.	3 "	30	The J. J. Fanning Co., Ottawa, Ont.	H. N. Bate & Sons, Ltd., Ottawa.
" 20	"	49036	J. T. Kearns, Chesterville.	3 "	1 50	Mayell & Co., Toronto.	

SESSIONAL PAPER No. 14

BAKING POWDERS.

RESULTS OF ANALYSIS.

Inspector's Report (Is not an expression of opinion.)	Carbon Dioxide.			Character of Powder.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Available.	Residual.	Total.			
J. C. ROULEAU, INSPECTOR. <i>Continued.</i>						
	p.c.	p.c.	p.c.			
Red Rose	9.68	1.99	11.67	Alum Phosphate	1188	Below standard (slightly).
Royal	12.47	0.47	12.94	Cream of Tartar	1189	
White Rose	9.52	0.53	10.05	Alum Phosphate	1191	Below standard (slightly).
Ocean	6.32	5.79	12.11		1192	Below standard.
J. J. COSTIGAN, INSPECTOR.						
Put up specially for ven- dor.	8.60	0.30	8.90	Alum Phosphate	10921	Below standard.
Star Brand	12.10	0.20	12.30		10922	
Alredie	9.30	1.60	10.90	Cream of Tartar and Trace of phos- phate	10923	Below standard (slightly)
Magie	12.50	0.60	13.10	Phosphate	10924	
Ocean	9.60	2.80	12.40	Alum Phosphate	10925	Below standard (slightly)
Cook's Favourite	10.30	0.80	11.10		10926	
Mount Royal	10.80	0.40	11.20		10927	
New York	13.30	0.70	14.00		10928	
Crown	7.60	1.60	9.20		10929	Below standard
White Rose	11.30	0.10	11.40		10930	
J. A. RICKEY, INSPECTOR						
Forest City	10.50	0.30	10.80	Alum Phosphate	19031	
Maple Leaf. Mfg. for Vendor.	13.80	0.20	14.00		19032	
	10.30	0.60	10.90	Alum and a little phosphate.	19033	
Red Rose. Strong pure and wholesome.	12.90	2.60	15.50	Phosphate	19034	
Fanning's Malt	15.40	1.10	16.50	Alum	19035	
Art. Guaranteed also bitely pure.	7.30	2.30	9.60	Alum Phosphate	19036	Below Standard.

4 GEORGE V., A. 1914

BULLETIN No. 240--

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--							
1911.							
Oct. 25	Baking Powder.	49037	A. E. Rea & Co., Ltd., Ottawa.	3 tins.	30	C. H. Cochrane, Ottawa.	
" 25	" "	49038	I. Houli, Clarence st., Ottawa.	3 "	15	W. D. McLaren, Ltd., Hamilton.	C. Major, Ltd., Ottawa.
" 25	" "	49039	L. Malette, Murray st., Ottawa.	3 "	27	Litster Pure Food Co., Ltd., Toronto.	
" 25	" "	49040	P. Lamoureux & Cie., Dalhousie st., Ottawa	3 "	45	Royal Baking Powder Co., New Jersey.	Provost & Allard, Ottawa.
DISTRICT OF KINGSTON--							
Nov. 1	Baking Powder.	48584	Geo. Gibson, Kingston.	3 tins.	30	Gillett, Ltd., Toronto.	
" 1	" "	48585	C. H. Pickering, Kingston.	3 "	30	" "	
" 2	" "	48586	M. Nolan, Kingston.	3 "	45	Royal Baking Powder	
" 2	" "	48587	J. Crawford, Kingston.	3 "	45	F. F. Dalley, Hamilton.	
" 2	" "	48588	J. Lemmon, Kingston.	3 "	45	Vendor	
" 2	" "	48589	J. McCulla, Kingston.	3 "	45	Cleveland's Baking Powder.	
" 2	" "	48590	M. Purtell, Kingston.	3 "	30	F. F. Dalley, Hamilton.	
" 2	" "	48591	J. R. B. Gage, Kingston.	3 "	45	Gage Bros., Hamilton	
" 2	" "	48592	W. Powers, Kingston.	3 "	39	Powers	
" 2	" "	48593	J. Redden, Kingston.	3 "	45	Royal Baking Powder	
DISTRICT OF TORONTO--							
Oct. 18	Baking Powder.	47395	D. J. Donovan, Walnut St., Hamilton.	3 pkg.	30	McLarens Ltd., Hamilton.	
" 18	" "	47396	Norman & Co., 97 Main St. West, Hamilton.	3 "	15	Vendors	
" 20	" "	47397	E. W. Gillett Co. Ltd., Toronto.	3 "	20	" "	
" 20	" "	47398	The White Swan Spice and Cereals, Ltd., Toronto.	3 "	20	" "	
" 24	" "	47399	H. G. Ainslie, Owen Sound.	3 "	30	" "	Young-Windfield, Ltd., Hamilton.
" 26	" "	47400	Wheeler Bros., Collingwood.	3 "	30	Litster Pure Food Co., Ltd., Toronto.	
" 27	" "	49301	J. A. Brown, Collingwood.	3 "	30	" "	
" 27	" "	49302	Jas. Chalmers, Collingwood.	3 "	45	" "	
" 27	" "	49303	Chas. Cheesman, Barrie	3 "	45	White Swan Spice and Cereal Co., Ltd., Toronto.	
Nov. 2	" "	49304	J. S. Kyle, Oshawa.	3 "	30	Fodhunter, Mitchell & Co., Ltd., Toronto	Mfrs

SESSIONAL PAPER No. 14

BAKING POWDERS.

RESULTS OF ANALYSIS.

Inspector's Report. (Is not an expression of opinion).	Carbon Dioxide.			Character of Powder.	No. of Sample.	Remarks and opinion of the Chief Analyst.
	Available	Residual	Total.			
J. A. RICKEY, INSPECTOR. <i>Continued.</i>						
	p.c.	p.c.	p.c.			
Our Own. Mfg. for Ven dors.	13 40	0 90	14 00	Alum Phosphate	49037	
Cook's Friend.	10 80	0 50	11 30	Cream of Tartar & a little phosphate	49038	
Thistle. Mfg. for Ven dor.	14 90	1 60	16 10	Alum Phosphate	49039	
Royal. Absolutely pure.	12 40	0 20	12 60	Cream of Tartar	49040	
JAS. HOGAN, INSPECTOR.						
.....	12 20	2 50	14 70	Phosphate	48584	
.....	13 00	0 40	13 40	.....	48585	
.....	11 10	0 30	11 40	Cream of Tartar	48586	
.....	11 10	0 60	11 70	Alum with a little phosphate.	48587	
.....	12 70	0 40	13 10	Alum Phosphate	48588	
.....	10 30	0 60	10 90	Cream of Tartar	48589	
.....	10 80	0 20	11 00	Alum with a little phosphate.	48590	
.....	12 20	0 60	12 80	Alum Phosphate	48591	
.....	11 20	0 40	11 60	Phosphate & trace of Alum.	48592	
.....	11 20	0 40	11 60	Cream of Tartar	48593	
H. J. DAGER, INSPECTOR.						
'Ocean Wave'	11 90	1 56	13 40	Alum Phosphate	47395	
'Red Ribbon'	12 80	2 30	15 10	.....	47396	
'Magic.' Contains no alum.	11 70	0 20	11 90	Phosphate	47397	
White Swan. Contains no alum. Guaranteed absolutely pure.	12 20	1 80	14 00	.....	47398	
'Mother's Choice'	10 50	1 10	11 60	Phosphate and trace of alum.	47399	
'Wheeler Bros.' Put up for vendors by mfrs.	9 70	0 80	10 50	Alum Phosphate	47400	Below standard (slightly).
'Pure Food.'	11 80	0 30	12 10	.....	49301	
'Maple Leaf.' Put up expressly for vendors.	11 80	1 76	13 56	.....	49302	
Ocean Foam. Perfectly pure. Put up for ven- dor by mfrs.	11 00	0 70	11 70	.....	49303	
White Lily. Quality guaranteed.	10 42	0 87	11 29	Phosphate	49304	

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—

1911.							
Oct. 16	Baking Powder.	47805	Clute & Smith, St. Thomas.	3 pkg.	30	E. W. Gillet Co., Toronto	
" 16	"	47807	Moylan & Moylan, St. Thomas.	3 "	30	Gorman, Eckert & Co., London.	
" 16	"	47810	E. J. Witheford, St. Thomas.	3 "	30	I. X. L. Spice and Coffee Co., London.	
" 16	"	47811	C. J. Norsworthy, St. Thomas.	3 "	30		E. Adams & Co., London.
" 17	"	47815	J. Caron, Ridgetown.	3 3	30	E. W. Gillett Co., Ltd., Toronto.	
" 18	"	47828	L. Vandour & Son, Leamington.	3 "	30	Hamilton Spice and Coffee Co., Hamilton.	
" 18	"	47831	G. M. Sawyer, Leamington.	3 "	30	E. W. Gillett Co., Ltd., Toronto.	
" 18	"	47835	Robinson Bros., Leamington.	3 "	30	Todhunter & Mitchell, Toronto.	
" 19	"	47845	A. H. Scarff, Essex.	3 "	30	Hamilton Spice and Coffee Co.	
" 19	"	47849	Millar & Wigle, Essex.	3 "	10	Egg-O Baking Co., Hamilton.	

DISTRICT OF MANITOBA—

Oct. 23	Baking Powder.	47428	Blue Ribbon Ltd., Winnipeg.	24 oz.	25	Vendors	
" 23	"	47429	Campbell Bros. & Wilson, Winnipeg.	$\frac{1}{2}$ lb.	Nil.	"	
" 23	"	47430	The Gold Standard Mfg. Co., Winnipeg.	$\frac{1}{2}$ "	"	"	
" 24	"	47431	The White Star Mfg. Co., Winnipeg.	$\frac{1}{2}$ "	"	"	
" 24	"	47432	The Dyson Co., Winnipeg.	$\frac{1}{2}$ "	"	"	
" 25	"	47433	MiKush & Barbaumer, Winnipeg.	$\frac{1}{2}$ "	10	The White Star Mfg. Co., Winnipeg.	Unknown.
" 25	"	47434	Moffett & Douglas, Winnipeg.	$\frac{1}{2}$ "	25	The Price Baking Co., Chicago.	
" 25	"	47435	Western Mercantile Co., Ltd., Winnipeg.	$\frac{1}{2}$ "	10	The Gold Standard Mfg. Co., Winnipeg	
" 25	"	47436	A. J. Kembal, Winnipeg.	$\frac{1}{2}$ "	15	"	
" 26	"	47437	H. Logrenia, Winnipeg	$\frac{1}{2}$ "	20	The Blackwood Ltd., Winnipeg.	

DISTRICT OF CALGARY—

Nov. 9	Baking Powder.	44052	Hewitt & Armstrong, Medicine Hat.	3 tins.	75	Price Baking Powder Co., Chicago.	
" 9	"	44053	A. W. Curran, Winnipeg.	3 "	45	W. A. Jamieson, Coffee Co., Victoria, B. C.	
" 15	"	44054	L. T. Mewburn & Co., Ltd., Calgary.	3 "	25	E. W. Gillett Co., Ltd., Toronto.	

SESSIONAL PAPER No. 14

BAKING POWDERS.

RESULTS OF ANALYSIS.

Inspector's Report (Is not an expression of opinion.)	Carbon Dioxide.			Character of Powder.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Available.	Residual.	Total.			
JNO. TALBOT, INSPECTOR.						
	pcv.	pcv.	pcv.			
Magic	11.49	0.56	11.75	Phosphate	47805	
"	8.49	0.83	9.02	Alum Phosphate	47807	Below standard.
"	12.96	0.41	13.37	"	47810	
Fan	12.66	1.45	13.81	"	47811	
"	12.78	0.44	12.92	Phosphate	47815	
Ocean Wave	10.94	2.05	12.99	Alum Phosphate	47825	
"	13.70	0.26	13.96	Phosphate	47831	
Tollhunter Excelsior	11.23	0.05	11.28	Cream of Tartar	47835	
Ocean Wave	10.38	3.13	13.51	Alum Phosphate	47845	
"	14.71	1.96	16.70	"	47849	

A. C. LARIVIERE, INSPECTOR.

Blue Ribbon	11.47	1.20	12.67	Alum Phosphate	47428	
Royal Shield	11.47	1.80	13.27	"	47429	
Gold Standard	12.65	0.65	13.30	"	47430	
White Star	9.30	2.90	12.20	"	47431	Below standard (slightly).
Red Cross	11.20	2.87	14.07	"	47432	
White Star	10.19	1.11	11.30	"	47433	
Dr. Price's Cream	12.37	0.65	13.02	Cream of Tartar	47434	
Gold Standard	10.41	1.07	12.31	Alum Phosphate	47435	
"	10.36	1.29	11.65	"	47436	
Blackwood	11.88	1.37	13.25	"	47437	

R. W. FLETCHER, INSPECTOR.

	12.40	0.40	12.80	Cream of Tartar & a little phosphate	41052	
	12.20	1.40	13.60	Alum Phosphate	41053	
	13.40		13.40	Phosphate	41054	

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 CALGARY—

1911.							
Nov.	15	Baking Powder.	44055 G. F. & J. Galt, Winnipeg.	2 tins.	25	Blue Ribbon Mfg. Co. Ltd., Winnipeg.	
"	15	"	44056 Campbell Wilson & Horne, Calgary.	3 "	25	E. W. Gillett Co., Ltd., Toronto.	
"	15	"	44057 Georgeson & Co., Ltd., Calgary.	3 "	25	Vendors.....	
"	16	"	44058 J. A. Nolan, Calgary	3 "	75	Wm. Pryce's, Chicago U.S.	
"	16	"	44059 Calgary Milling Co. Ltd., Calgary.	3 "	75	H. Stelling & Co., San Francisco, U.S.	
"	16	"	44060 Hudson's Bay Co., Calgary.	3 "	75	The Georgeson Co., Ltd., Calgary.	
"	16	"	44061 S. G. Freeze, Calgary.	3 "	75	"	

DISTRICT OF NELSON—

Oct.	19	Baking Powder.	48429 Crow's Nest Trading Co., Fernie, B.C.	3 tins.	45	E. W. Gillett Co., Toronto.	
"	19	"	48431 Trites Wood Co., Fernie, B.C.	3 "	30	White Star Mfg. Co., Winnipeg.	
"	19	"	48432 " " "	3 "	75	Price Baking Powder Co., Chicago.	
"	19	"	48441 Fernie Co-op. Asscn., Fernie, B.C.	3 "	1 35	E. W. Gillett Co., Toronto.	
"	19	"	48442 " " "	3 "	45	Georgeson & Co., Calgary.	
"	27	"	48455 Union Co op. Asscn., Rossland, B.C.	3 "	1 50	Mayell & Co., Toronto	
"	27	"	48456 " " "	3 "	75	Crescent Mfg. Co., Seattle.	
"	27	"	48465 Hunter Bros., Rossland, B.C.	3 "	60	Coldyke B. P. Co., Winnipeg.	
"	27	"	48466 " " "	3 "	60	Price B. P. Co., Chicago.	
"	28	"	48482 A. S. Horswill, Nelson, B.C.	3 "	30	Coldyke B. P. Co., Winnipeg.	

DISTRICT OF VANCOUVER—

Oct.	20	Baking Powder.	38225 Gruchy & Carlow, Granville st., Vancouver.	16 oz.	25	Eggo Baking P. Co., Regina, Sask.	
"	20	"	38226 London Grocery Co., Fairview Branch, Vancouver.	3 tins.	75	Dr. Price Co., Chicago	
"	20	"	38227 White-Thompson Co., Granville st., Vancouver.	12 oz.	20	Gillett & Co., Toronto	
"	20	"	38228 A. C. Bartig, Granville st., Vancouver.	12 "	20	Pure Gold Co., Toronto.	
"	20	"	38229 A. McFarlane, Granville st., Vancouver.	12 "	25	Coldyke Co., Winnipeg.	

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BAKING POWDERS.

RESULTS OF ANALYSIS.

Inspector's Report. (Is not an expression of opinion.)	Carbon Dioxide.			Character of Powder	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Available.	Residual.	Total.			
	11.30	0.20	11.50	Alum Phosphate	44055	
	12.60	0.20	12.80	Phosphate	44056	
	12.70	0.80	13.50	Alum Phosphate	44057	
	12.30	0.60	12.90	Cream of Tartar & a little phosphate	44058	
	12.30	1.10	13.40	Cream of Tartar	44059	
	13.60	0.20	13.80	Alum Phosphate	44060	
	14.00	0.60	14.60		44061	

R. W. FLETCHER, INSPECTOR *Continued.*

	per	per	per			
	12.50	0.40	12.90	Phosphate	48429	
	10.50	1.10	11.60	Alum Phosphate	48431	
	12.00	0.20	12.20	Cream of Tartar & a little phosphate	48432	
	12.20	0.60	12.80	Cream of Tartar	48441	
	9.60	0.50	10.10	Alum Phosphate	48442	Below standard slightly
	10.75	1.20	11.95		48455	
	8.10	0.90	9.00	Phosphate and a little alum.	48456	Below standard.
	10.60	0.80	11.40	Alum Phosphate	48465	
	13.00	0.90	13.90	Cream of Tartar & a little phosphate	48466	
	11.50	0.30	11.80	Alum Phosphate	48482	

J. F. POWER, INSPECTOR.

Guaranteed by Mrs. . . .	10.64	2.04	12.68	Alum Phosphate.	38225	
Made from pure grape cream of tartar, tartaric acid, bicarbonate soda and corn starch.	12.20	0.52	12.72	Cream of Tartar	38226	
Magic, phosphate, bicar- bonate soda and starch.	12.37	0.41	12.78	Phosphate.	38227	
Fully warranted in every respect.	10.44	0.06	10.50	Cream of Tartar	38228	
.....	10.75	1.60	12.35	Alum Phosphate.	38229	

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 VANCOUVER—

1911.							
Oct.	20	Baking Powder.	38230	Jackson's Grocery, Cedar Cottage, Vancouver.	12 oz.	40	Royal Baking Powder, New York.
"	20	"	38231	D. A. Finan, Park Drive, Vancouver.	12 "	20	Empress Mfg. Co., Vancouver.
"	20	"	38232	T. A. Brewis, Park Drive, Vancouver.	12 "	25	Blue Ribbon Co., Winnipeg.
"	20	"	38233	Main's Grocery, Park Drive, Vancouver.	12 "	25	Unknown.
"	20	"	38234	Swindell & Banbury, Vancouver.	12 "	25	White Star Mfg. Co., Winnipeg.

DISTRICT OF VICTORIA—

Oct.	25	Baking Powder.	47661	Windsor Grocery Co., Victoria, B.C.	3 pks.	75	The Pioneer Coffee & Spice Mills, Victoria, B.C.
"	25	"	47662	" " "	3 "	75	" " "
"	26	"	47663	The West End Grocery Co., Ltd., Victoria, B.C.	3 "	75	Nat. Drug and Chem. Co., Montreal.
"	26	"	47664	" " "	3 "	75	Royal B. P. Co., New Jersey.
Nov.	9	"	47665	Copas & Young, Victoria, B.C.	3 "	60	Price B. P. Co., Chicago.
"	9	"	47666	Wm. B. Hall, Victoria, B.C.	3 "	75	A. Shilling & Co., San Francisco, Cal.
"	13	"	47667	Erskine & Co., Victoria, B.C.	3 "	75	W. A. Jamieson Coffee Co.
"	13	"	47668	F. E. Plummer, Victoria, B.C.	3 "	60	Blue Ribbon, Ltd., Winnipeg.
"	15	"	47669	D. H. Ross & Co., Victoria, B.C.	3 "	75	Crescent Mfg. Co., Seattle, Wash.
"	15	"	47670	Harrison & McDonald, Victoria, B.C.	3 "	75	E. W. Gillett Co., Ltd., Toronto.

SESSIONAL PAPER No. 14

BAKING POWDERS.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.			Character of Powder.	No. of Sample	Remarks and opinion of the Chief Analyst.
	Carbon Dioxide.					
	Available	Residual.	Total.			
J. F. POWER, INSPECTOR—Continued.						
	p. c.	p. c.	p. c.			
Cream of tartar, tartaric acid, bicarbonate of soda and starch.	11.89	0.61	12.51	Cream of Tartar	38230	
Alum phosphate	12.35	1.46	13.81	Alum Phosphate	38231	
Always reliable	7.04	1.59	8.54		38232	Below standard.
Put up for Main's grocery	7.34	1.71	9.05		38233	
Best in the world	7.27	0.98	8.25		38234	
D. OSULLIVAN, INSPECTOR.						
Hygienic	11.49	3.30	14.55	Alum Phosphate	47661	
Pioneer, pure cream of tartar baking powder.	11.42	2.14	13.56	Cream of Tartar, but contains both alum and phosphates.	47662	
St. George	8.76	1.30	10.06	Cream of Tartar	47663	Below standard.
Royal	11.94	0.69	12.63		47664	
Dr. Price's cream	12.30	0.60	12.90	Cream of Tartar & a little phosphate.	47665	
Shilling's best	11.70	1.40	13.10	Cream of Tartar	47666	
Feather light	12.63	0.85	13.48	Alum Phosphate	47667	
Blue Ribbon	7.17	0.98	8.16		47668	Below standard.
Crescent	5.87	0.12	5.99	Phosphate with a little alum.	47669	
Magic	12.87	0.60	13.47	Phosphate	47670	

APPENDIX E.

BULLETIN No. 241—REGISTERED STOCK FEEDS.

OTTAWA, August 23, 1912.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister,
Inland Revenue.

SIR,—I beg to hand you a report upon 138 samples purchased as Registered Feeding Stuffs, throughout Canada, in February of this year. There seems to be much and wide-spread misunderstanding of the requirements of the Commercial Feeding Stuffs Act of 1909. It is difficult to comprehend this state of things, which is illustrated as notably by the mistakes made by our food inspectors as in any other way.

Briefly, the requirements of the Act in question are as follows: Feeds for farm stock are either subject to legal inspection, or are permitted to be sold without inspection.

Hay, Straw, Roots, Wet brewers grains; also Oats, Barley, Corn, &c., in the unground state, are not subject to any official inspection. The reason is clear.

These articles are, from their nature, as readily judged in regard to quality, by the ordinary purchaser as they could be by a Government Official.

All other feeds are subject to inspection for the equally intelligible reason, that their value is not readily, or certainly appreciable to the purchaser.

Indeed, the only way in which the superiority of one article of Bran or Chop feed over another article of like species can be found out, without chemical analysis, is by actually feeding the material and observing results.

Feeds which are subject to inspection are again divided into two classes, viz.: those which may be sold without registration and those which must be registered before being legally offered for sale.

Bran, Shorts (Middlings) and Chop feeds, are not required to bear any registration number, or any guaranty of their nutritive value. This is because the terms Bran, Shorts and Chop feeds, are legally defined under section 26 of the Adulteration Act.

The definitions of these feeds are published under Grain Standards, as Regulation G. 968.

The feeds in question are required to possess the subjoined percentage values.

	Proteids.	Fat.	Fibre.
	(Min.)	(Min.)	(Max.)
Bran.....	14	3	10
Shorts (Middlings).....	15	4	8
Chop Feed.....	10	2	10

The purchaser of any one of these feeds is assured of obtaining a nutritive value at least equal to the values above given.

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There is however nothing in the Act which prevents a manufacturer of Bran, Shorts or Chop, from registering his product, and from guaranteeing a higher value for it than the minimum value required by the Act. Should a manufacturer of Bran, &c., elect to register and to guarantee higher value than the minimum which the Act requires for such class of feed, it is incumbent upon such manufacturer to live up to the guarantee set by himself.

If for example, he chooses to warrant his Bran as containing 16 per cent proteids, and 5 per cent fat, but puts on the market an article containing only 14 per cent proteids and 3 per cent fat, such article will be adulterated, under the Act, although it meets the minimum requirements for legal Bran. Section 15 of the Act provides a penalty for failure to meet the guaranteed values.

All feeds other than those described above, must be registered before being offered for sale.

The registration number must be affixed to every package offered for sale, and constitutes identification of the brand. (Section 7). A penalty of not more than fifty dollars for a first offence is provided for violation of this condition. (Section 15.)

Every registration number corresponds to a definite brand of feed, whose minimum value in nutrient matter is guaranteed by the manufacturer and is on file in this Department.

The guaranteed value must also appear on every package offered for sale. (Section 7, Schedule A.)

The purchaser knows what value he is getting when he buys a registered feed.

It is the duty of this department to inspect all feeds on the market, excepting such as are specifically exempt from inspection. (Section 12.)

Instructions were issued to our inspectors to collect registered feeds only. The response shows as follows:

Cattle medicines obtained	41	samples.
Feeds not registered, and not required to be registered	9	"
Feeds not registered, but should be registered	1	"
Registered feeds.	87	"
	138	"

There is some excuse for the collection of so many samples of cattle medicines, inasmuch as the term feeding stuff is defined in Section 2 of the Act to include "feeds claimed to possess medicinal as well as nutritive properties." These samples will form the subject of a separate report.

The present report therefore deals with 97 samples only and these may be classified as follows:

(1) Registered feeding stuffs	
Meeting guarantee	64
Below guarantee.	22
Doubtful (imperfect report)	1
	87
(2) Unregistered—illegal.	1
" and legal	
Meeting standard requirements	5
Below standard requirements	4
	9
Total	97

4 GEORGE V., A. 1914

The following table gives a synopsis of 22 registered feeds which fail to meet the guarantee under which they are sold.

No.		Below requirements in.			Remarks.
		Proteids	Fat.	Fibre.	
45631	Bran	1 99	1 09		
45636	Middlings	2 08	0 83		
45642	Calf meal	9 20			Above guarantee in fat 6 3.
39070	Kamoat	2 16	0 44		
39073	Ox Meal	1 70			
39078	Eureka	0 71	1 61		
40841	Bran	2 02	0 74		
40843	Kamoat	1 69	0 42		
40846	Kremo Feed	2 02	0 54		
40848	Ox Meal	1 58			
50173	Crescent	1 08	1 36		
50174	Sugar and Flaxseed	2 58			
50179	Oil cake	4 08			
50184	Calf meal	7 73			Above in fat 5 46.
50185	Bibby's Cream Equivalent		2 31		Above in proteids 2 32.
50188	Oil cake		1 23		Excess in proteids 0 95.
49552	Schumacher		1 65		Excess in Proteids.
49373	Maize meal	2 20	0 54		
49381	Gluten Feed	1 96			Excess in fat 1 24.
49386	Dairy Feed	3 53	1 15	5 6	Excess Fibre.
49640	Poultry bone		3 36		
38316	Stock feed	4 22	1 62		

Section 15 of the Act provides that a deficiency of one per cent of the proteids or fat shall not be considered evidence of fraudulent intent, if the total value of the feed, in nutritive material, is substantially equivalent to the guaranteed statement of the manufacturer.

All of the above cases show deficiencies greater than one per cent, in proteids or in fat, so that under the terms of the Act they are adulterated.

In most instances, however, the departure from legal allowance is small, and in some cases is nearly, if not quite balanced by excess of one or other component.

In cases where the manufacturer bases his guarantee values on the analysis furnished to him by the analyst he employs, it is important that he assure himself of the typical character of the sample which he submits for analysis.

If he submit several samples, instead of a single one the average result of analysis will be more likely truly to represent his product than if he trusts to a single test.

I am convinced that some of the differences above recorded between the guaranteed and the actual analysis are unfavourable to the manufacturer owing to his having described his product upon the result of a single test case, the sample submitted being, perhaps, rather better than his average output.

In view of this consideration and of the fact that this is a first inspection of registered feeds under the Act of 1909, I am inclined to recommend leniency in the enforcement of the penalties provided under Section 15.

Ten samples herein reported are not registered. One of these, No. 48075, sold as Cotton Seed Meal, can not be legally sold without being registered. From correspondence with the Rev. D. B. Cohoe of Burgessville, (Departmental Letters 87715 and 87745) it is explained that this was a sample of a personal consignment passed over to a neighbour, without profit; and cannot properly be regarded as a sale.

Of the other samples, five meet the requirements under which they are sold as Middlings or Chop feed. The following samples fail to meet legal requirements.

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No. 45639—Sold as *Feed Flour*.

Below Standard for "Middlings"—

Proteids	1.35 p.c.
Fat	1.44 p.c.
Above Standard in Fibre	6.70 p.c.

It is uncertain whether the term "Feed Flour" may be taken as equivalent to middlings. It would be safer to register or guarantee articles of this kind. The actual feeding value is so nearly equal to that of middlings, that the article may pass inspection, as doubtfully classified.

No. 50183—Sold as Rex Sugar Feed.

Below Standard for chop feed—

Proteids	0.68 p.c.
Fat	1.06 p.c.
Above Standard in Fibre	5.3 p.c.

It is probable that this article should be registered. It is so nearly the value of Chop feed that it may pass.

No. 49367. Sold as Oat Feed.

Below Standard as Chop Feed

Proteids	6.76 p.c.
Fat	0.87 p.c.
Excess Fibre	18.60 p.c.

This article has so little nutritive value that it must be declared adulterated.

No. 49629. Sold as Stock Feed, is below requirements for Chop Feed as follows:—

Proteids	7.23 p.c.
Fat	1.62 p.c.
Excess Fibre	25.20 p.c.

This article is to be judged adulterated.

I beg to recommend publication of this report as Bulletin No. 241.

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.							
Feb.	9	Stock Feed...	47051 Wentzells Ltd., Halifax, N. S.	1 pkg.	50	International Stock Food Co., Toronto.	Manufacturers..
"	21	"	47052 Halifax Seed Co.....	1 "	50	Pratt Food Co., Toronto.	"
"	21	"	47053 " "	1 "	50	W. A. Jenkins Co., London, Ont.	"

DISTRICT OF PRINCE EDWARD ISLAND--

Feb.	7	Calf Meal	46186 Auld Bros., Charlottetown, P. E. I.	3 lbs.	20	The Blatchford Calf Meal Factory, Wankegan Hill.	
"	7	Molassine	46187 " "	3 "	10	The Molassine Co., Ltd., England.	
"	21	Herbageum	46188 Mathew & McLean, Ltd., Charlottetown, P. E. I.	4 "	50	The Beaver Mfg. Co., Galt, Ont.	

DISTRICT OF NEW BRUNSWICK--

Feb.	17	Bran	45631 C. H. Peters & Sons, Ltd., St. John, N. B.	3 lbs.	15	Western Canada Flour Mills, Winnipeg.	
"	17	Middlings	45632 " "	3 "	15	"	
"	19	"	45633 P. Nase & Son, St. John, N. B.	3 "	10	Maple Leaf Milling Co., Canada.	
"	19	Banner	45634 " "	3 "	10	Quaker Oats Co., Peterboro', Ont.	
"	19	Feed Flour	45635 " "	3 "	19	Western Canada Flour Mills Co., Winnipeg.	
"	21	Middlings	45636 James Collins, St. John, N. B.	3 "	10	"	
"	21	Feed Flour	45637 W. J. Alexander, St. John, N. B.	3 "	10	Maple Leaf Milling Co., Canada.	
"	21	Geneva Feed	45638 James Stephenson & Son, St. John, N. B.	3 "	15	Western Canada Flour Mills Co., Winnipeg.	

SESSIONAL PAPER No. 14

REGISTERED STOCK FEEDS.

Inspector's Report (Is not an expression of opinion.)	Analysis of Sample	Results of Analysis.			No. of Sample	Remarks and Opinion of the Chief Analyst.
		Proteids	Fat	Fibre		
R. J. WAUGH, INSPECTOR.						
		10.00	10.00	10.00	4701	Is a medicine, not a food.
	Mineral matter 22.2 per cent.				4702	Mineral matter 22.2 per cent. Is not a stock food, but a medicine.
	Mineral matter 11.90 per cent.				4703	Is a medicine, not a food.
WM. A. WEEKS, INSPECTOR.						
	As guaranteed	25.00	5.00	5.00	4686 Meets guarantee.	
	As found	25.02	5.36	5.7		
	As guaranteed	7.00	0.05	7.00	4687	
	As found	6.76	0.29	6.4		
	Mineral matter 15.80 per cent.				4688	Is a medicine, not a food.
J. C. FERGUSON, INSPECTOR.						
Reg. No. 66	As guaranteed	16.82	5.5	10.86	45631	1.29 per cent deficiency in proteids, as per guarantee. Conforms to definition of <i>Bran</i> .
	As found	14.83	4.41	9.7		
" "	As guaranteed	18.36	6.04	7.51	45632	Up to guarantee, and conforms to definition of <i>coddlings</i> .
Reg. No. 64	As found	17.85	5.87	6.60		
"Rox Brand" No. 1	As guaranteed	16.71	5.56	7.7	45633	Sold as <i>middlings</i> , and conforms to legal requirements. Not registered.
Reg. No. 6	As guaranteed	8.5	3.7	9.0	45634	Up to guarantee.
	As found	9.81	3.2	8.0		
" "	As guaranteed	16.23	3.9	3.29	45635	Up to guarantee, and correct as <i>middlings</i> .
Reg. No. 63	As found	17.37	4.36	3.60		
" "	As guaranteed	13.82	5.5	10.86	45636	.208 deficiency in proteids; but conforms to requirements for <i>middlings</i> .
	As found	14.74	4.67	10.00		
"Maple Leaf" No. 1	As found	16.45	4.4	5.50	45637	Not registered. Conforms to requirements for <i>middlings</i> .
Reg. No. 64	As guaranteed	18.36	6.04	7.51	45638	Meets guarantee.
	As found	18.25	6.48	6.2		

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.							
Feb. 27	Feed Flour. . .	45639	P. F. McKenna, St. Stephen, N. B.	3 pkgs	15	Canada Cereal M. Co., Toronto.	
Mar. 5	Geneva Feed..	45610	M. E. Doohan, Fredericton, N. B.	3 lbs.	19	Campbell Flour M. Co., W., Toronto	
" 5	Model Feed . .	45641	A. H. Vanwart, Fredericton, N. B.	3 "	13	Lake of the Woods M. Co. Montreal	
" 7	Calf meal. . . .	45642	J. W. Niles, Andover, N. B.	3 "	25	International Stock Food Co., Ltd., Toronto.	
" 8	Puritan Chop.	45643	J. W. McPhail, Perth, N. B.	3 "	10	Ogilvie Flour M. Ltd., Montreal.	
" 12	Hercules. . . .	45644	W. B. McKay, Ltd., Sussex, N. B.	3 "	10	"	

DISTRICT OF QUEBEC—

Feb. 7	Stock Feed. . .	37388	Arthur Drolet, 714 Rue St. Valier, Quebec.	3 lbs.	75	International Stock Food Co. Toronto	P. T. Legare, Quebec.
" 9	"	37389	Hamel & Bedard, 728 Rue St. Valier, Quebec.	3 "	75	"	"
" 14	"	37390	Jos. Masson, 808 Rue St. Valier, Quebec.	3 "	30	Davis & Lawrence, Montreal.	Mfrs.
" 14	"	37391	"	3 "	50	Nyals, New York.	"
" 14	"	37392	"	3 "	45	L. E. Martel, Quebec.	Mfr
" 14	"	37393	"	3 "	75	Toronto Pharmacal	Mfrs.
" 14	"	37394	"	3 "	35	Dr. Ed. Morin. . . .	Mfr.
" 14	"	37395	Hamel & Bedard, 728 Rue St. Valier, Quebec.	3 "	105	Jos. Julien, Pont Rouge.	W. Brunet & Cie. Quebec.
" 14	"	37396	P. Reneaud, 597 Rue St. Valier, Que.	3 "	105	Pratt Food.	A. E. Vallerand, Quebec.

DISTRICT OF ST. HYACINTHE—

Feb. 19	Quinquinol. . .	39057	Berthiaume & Lanoue, Farnham.	1 can.	50	Am. Pure Food Co. Montreal.	
" 19	International..	39058	J. E. Baillargeon, Farnham.	3 pkgs	25	International Stock Food Co. Toronto	
" 21	Pratts	39059	Vaughan Bros., Magog.	1 "	50	Pratts Food Co., of Canada, Ltd., Toronto.	
" 21	Anglo-Saxon.	39060	B. E. Goyette, Magog.	1 "	25	Nat. Drug & Chem. Co., Montreal.	
" 27	Interprovincial	39061	T. Ledoux, St. Guillaume	1 "	25	The Interprovincial S. F. Co., St. Basile.	
" 27	Vinks.	39062	E. Sylvestre, St. Guillaume	1 "	25	The Joliette Chem. Co. Ltd., Joliette	

SESSIONAL PAPER No. 14

REGISTERED STOCK FEEDS.

Inspector's Report (Is not an expression of opinion).	Analysis of Sample.	Results of Analysis.			Remarks and Opinion of the Chief Analyst.
		Proteins	Fat.	Fibre.	
		p.c.	p.c.	p.c.	
	As found.	13.65	2.56	1.30	E639 No registration number. Below standard for middlings.
	As found.	9.93	4.96	8.00	E640 Conforms to requirements for Chop Feed.
Reg. No. 106	As guaranteed	11.0	3.6	11.5	E641 Meets guarantee, and conforms to requirements for chop feed.
	As found.	10.41	3.16	9.6	
	As guaranteed	25.0	4.0	10.0	E642 9.20 per cent deficiency in proteins; 6.3 above guarantee in fat.
	As found.	15.8	10.3	8.9	
194	As guaranteed	9.5	4.0	6.5	E643 Meets guarantee and conforms to requirements for chop feed.
	As found.	10.41	4.81	7.5	
Pure Corn, Oats & Barley. Registered.	As found.	9.97	4.78	6.7	E644 Sold as chop feed. Meets standard requirements. No guarantee.

F. X. W. E. BELAND, INSPECTOR

Mineral matter 18.25 p.c.	37388 Is a medicine - not a feed.
Mineral matter 5.25 p.c.	37389 Is a medicine - not a feed.
Mineral matter 9.40	37390 Is a condition powder, and sold as such. Not a feed.
Mineral matter 20.4 p.c.	37391 Is a condition powder.
Mineral matter 20.3 p.c.	37392
Mineral matter 26.20 p.c.	31393
	37394 Is a medicine - not a feed.
Mineral matter 30.0 p.c.	37395 Is a condition powder.
	37396 Is a medicine.

J. C. ROULEAU, INSPECTOR.

No. Reg. Number	39057 Is a medicine.
	39058
	39059
	39060
	39061
	39062

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.							
Feb. 27	Perfection.....	39063	G. E. Aubin, Actonvale.	1 pkg.	50	D. Frechette, St. Hyacinthe.	
" 27	Acme.....	39064	A. Chicoine, Actonvale.	1	25	Frazier Norton & Co., Cookshire.	
" 28	Hackney	39065	O. T. Piche, Drummondville.	1 "	50	The Hackney S. Food Co., Ltd., Toronto.	
" 28	La Cadienne..	39066	T. A. Bourgant, Drummondville.	1 "	25	J. T. Herbert, Drummondville.	
" 28	Purina.....	39067	A. Birtz, Drummondville.	1 "	40		Stock of J. N. Potvin, D'Ville
" 28	Herbageum...	39068	R. Cardin, Drummondville.	1 "	50	The Beaver Mfg Co., Ltd., Galt.	
Mar. 4	Regal.....	39069	Berthiaume & Farnham.	3 lbs.		Ogilvie Milling Co.	
" 4	Kamoat.....	39070	" " "	3 "		Lake of the Woods Milling Co.	
" 5	Bran.....	39071	Beaudry & Beauchemin, Granby.	3 "		W. C. F. M. Co., Ltd.	
" 5	Schmacker ..	39072	" " "	3 "		The Quaker Oats Co., Peterboro.	
" 6	Ox Meal.....	39073	J. S. Maguire, Waterloo, P.Q.	3 lbs.	6	Lake of the Woods Milling Co.	
" 6	Bibby's Cream Equivalent.	39074	A. E. Ralston, Knowlton.	3 "	14	J. Bibby & Sons, Liverpool.	
" 7	Banner.....	39075	A. Oliver, Cowansville.	3 "		The Quaker Oats Co., Peterboro.	
" 7	Middlings...	39076	" " "	3 "		West. Canada F. M. Co., Ltd.	
" 7	Victor Feed..	39077	J. O. Ostigny, Adamsville.	3 "		The Quaker Oats Co., Peterboro.	
" 13	Eureka.....	39078	Laperriere & fils, Pierreville.	3 "		Ogilvie Milling Co.	
" 20	Calf Meal....	39079	W. K. Mackenzie, Richmond, P.Q.	3 "		The Blatchford Calf Meal Factory, Wankegan, Ill.	
" 20	Pioneer Cotton Seed Meal.	39080	D. Taylor, Richmond, P.Q.	3 "		J. E. Soper & Co., Roston.	

DISTRICT OF MONTREAL—

Mar. 10	Bran.....	40841	T. Longtin, Valleyfield, P.Q.	3 lbs.	10	West. Canada F. Mills Co. Ltd.	
" 13	Oxmeal.....	40842	J. P. Lebel, Commissioner St., Montreal.	3 "	8	Lake of the Woods Milling Co., Ltd.	
" 13	Kamoat.....	40843	" " "	3 "	5	"	
" 13	Feed Flour...	40844	" " "	3 "	7	West. Canada F. M. Co., Ltd.	
" 13	Shorts.....	40845	" " "	3 "	5	"	

SESSIONAL PAPER No. 14

REGISTERED STOCK FEEDS.

Inspector's Report (Is not an expression of opinion.)	Analysis of Sample.	Results of Analysis.			No. of Samples.	Remarks and Opinion of the Chief Analyst.
		Proteins	Fat.	Fibre.		
<i>Concluded.</i>						
		P. C.	P. C.	P. C.		
No. Reg. Number					39063	Is a medicine. Labelled con- dition powder.
"					39064	Is a medicine.
"					39065	
"					39066	
"					39067	
"					39068	
Moulce Melange. No reg. number on bag.	As guaranteed	9.0	4.25	9.0	39069	Meets guarantee.
	As found.	9.65	4.46	8.9		
Reg. No. 50	As guaranteed	14.0	2.5	16.0	39070	2.16 per cent deficiency in pro- teins. Adulterated.
	As found.	8.84	2.66	15.9		
" 66	As guaranteed	16.82	5.50	10.86	39071	Meets guarantee; also require- ments for bran.
	As found.	15.75	4.69	9.9		
" 13	As guaranteed	10.5	4.6	10.5	39072	Meets guarantee.
	As found.	9.88	3.0	10.4		
" 51	As guaranteed	16.5	3.2	7.6	39073	1.79 per cent deficiency in pro- teins.
	As found.	14.80	3.36	5.1		
" 82	As guaranteed	14.0	14.0	7.0	39074	Meets guarantee.
	As found.	15.66	14.26	5.6		
" 16	As guaranteed	8.5	3.5	9.0	39075	
	As found.	8.72	3.20	8.3		
" 68	As guaranteed	16.73	4.30	5.2	39076	Meets guarantee; also require- ments for mid-lings.
	As found.	16.06	4.48	4.2		
" 11	As guaranteed	8.0	3.5	12.0	39077	Meets guarantee.
	As found.	8.48	3.4	9.5		
" 102	As guaranteed	9.5	4.5	13.5	39078	1.6 per cent deficiency in fat.
	As found.	8.79	2.89	13.8		
Reg. No. not shown on bags.	As guaranteed	25.0	5.0	5.0	39079	Meets guarantee.
	As found.	25.80	4.86	6.5		
Guaranteed Analysis stamped on card but no reg. number to be found.	As guaranteed	4.0	7.0	10.0	39080	
	As found.	41.14	7.96	8.8		
J. J. COSTIGAN, INSPECTOR.						
Reg. No. 66	As guaranteed	16.82	5.5	10.86	40811	2.02 per cent deficiency in pro- teins; meets legal requirements for bran.
	As found.	14.80	4.76	9.7		
" 51	As guaranteed	16.5	3.20	7.60	40812	Meets guarantee.
	As found.	15.66	3.38	5.2		
" 50	As guaranteed	14.0	2.5	16.0	40813	1.69 per cent deficiency in pro- teins.
	As found.	9.31	2.68	15.7		
" 65	As guaranteed	16.23	3.90	3.29	40814	Meets guarantee.
	As found.	15.66	2.88	2.7		
" 63	As guaranteed	18.38	6.02	7.99	40815	Meets guarantee; also legal re- quirements for shorts.
	As found.	17.98	5.2	7.0		

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 MONTREAL—

1912.							
Mar. 13	Kremo Feed.	40846	W. C. F. Mills Co., Ltd., Montreal.	3 lbs.	...	Vendors	.....
" 13	Kamoat	40817	Lake of the Woods Milling Co., Ltd., Montreal	3 "	...	"	.....
" 13	Ox Meal	40848	Lake of the Woods M. Co. Ltd., Montreal.	3 lbs.	...	"	.....
" 13	Canadian Concentrated Veg. Stock Feed.	40849	Aime Guertin, Notre Dame St. E., Montreal.	3 "	...	Vendor	.....
" 14	Molassine Meal	40850	Andrew Watson, Youville, Montreal.	3 "	...	Molassine Co., Ltd. London, Eng.	.....

DISTRICT OF OTTAWA—

Feb. 5	Banner	50171	W. H. Poole, Smith's Falls	5 lbs.	10	The Quaker Oats Co., Peterboro.	Mfrs.
" 5	Victor	50172	" " "	5 "	10	"	"
" 5	Crescent	50173	" " "	5 "	10	The Chisholm M. Co., Toronto.	"
" 5	Sugar & Flaxseed.	50174	A. May, Smith's Falls.	3 "	18	Blatchford Calf Meal Factory, Wankegan, Ill.	"
" 5	Calf Meal	50175	" " "	3 "	18	"	"
" 6	Herbageum	50176	J. W. McKay, Ottawa.	4 "	60	The Beaver Mfg. Co., Galt, Ont.	"
" 6	All Grain	50177	" " "	3 "	5	W. R. Cummings, Ottawa.	"
" 6	Caldwell's Molasses Meal.	50178	" " "	3 "	9	The Caldwell Feed Co., Ltd., Dundas, Ont.	"
" 6	New Process Oil Cake.	50179	" " "	3 "	9	J. & J. Livingston, Baden, Ont.	K. McDonald & Sons, Ottawa.
" 6	Pioneer Cotton Seed Meal.	50180	" " "	3 "	6	J. E. Soper Co., Boston.	W. R. Cummings, Ottawa.
" 6	International.	50181	" " "	3 pkgs	75	International Stock Food Co., Minneapolis.	Mfrs.
" 7	Ruby Feed.	50182	Tilton & Graham, Cornwall.	3 lbs.	5	Canada C. & M. Co., Lindsay.	"
" 7	Rex Sugar Feed.	50183	Jno. F. Jarvo, Cornwall.	3 lbs.	30	The Rex Sugar F. Co., Weston, Ont.	"
" 7	Calf Meal	50184	D. McDonald, Cornwall.	3 "	15	International Stock Food Co., Toronto.	"
" 8	Bibby's Cream Equivalent.	50185	W. A. Blyth, Ottawa.	3 "	15	J. Bibby & Son, Liverpool, Eng.	W. Rennie & Co., Toronto.
" 16	Maize Gluten Meal (Jersey Brand.)	50186	J. A. Forward, Ottawa.	3 "	15	St. Lawrence Starch Co., Port Credit, Ont.	W. H. Dwyer, Ottawa, Ont.
" 13	Gluten Meal.	50187	E. J. McGarry, Renfrew.	5 "	20	Edwardsburg Starch Co., Cardinal.	Mfrs.

SESSIONAL PAPER No. 14

REGISTERED STOCK FEEDS.

Inspector's Opinion (Is not an expression of opinion.)	Analysis of Sample.	Results of Analysis.			No. of Sample	Remarks and Opinion of the Chief Analyst.
		Proteids	Fat.	Fiber.		
<i>Concluded.</i>						
		Per cent.	Per cent.	Per cent.		
Reg. No. 74	As guaranteed	11.56	2.16	16.0	40846	2.02 per cent deficiency in proteids.
	As found	9.54	1.62	16.3		
50	As guaranteed	11.0	2.5	16.0	40847	Meets guarantee.
	As found	11.46	1.86	11.0		
51	As guaranteed	16.5	3.20	7.60	40848	1.58 per cent deficiency in proteids.
	As found	14.92	3.76	5.6		
56	As guaranteed	25.0	6.25	2.0	40849	Meets guarantee.
	As found	23.80	5.70	1.9		
133	As guaranteed	7.0	0.65	7.0	40850	
	As found	14.50	0.20	6.5		
J. A. RICKEY, INSPECTOR						
Reg. No. 16	As guaranteed	8.5	3.5	9.0	50171	Meets guarantee.
	As found	8.72	3.0	8.6		
No. Reg. number nor analysis on bags	As guaranteed	8.0	3.5	12.0	50172	
	As found	7.61	3.17	11.6		
Reg. No. 84	As guaranteed	9.0	5.0	20.0	50173	1.08 per cent deficiency in proteids; 1.36 deficiency in fat.
	As found	7.92	3.61	16.1		
No. Reg. No. on bags.	As guaranteed	27.0	10.0	6.0	50174	2.58 per cent deficiency in proteids.
	As found	24.42	9.94	7.0		
	As guaranteed	25.0	5.0	5.5	50175	Meets guarantee.
	As found	20.24	5.25	6.2		
No. Reg. No. nor analysis on bags.					50176	Is a medicine, not a food.
	As found	11.68	4.04	10.1	50177	Meets requirements for Chop-Feed.
Reg. No. 124	As guaranteed	1.61	0.81	2.71	50178	Meets guarantee.
	As found	1.81	0.18	4.5		
No. Reg. No. nor analysis on bags.	As guaranteed	37.12	8.0	6.53	50179	1.08 per cent deficiency in proteids.
	As found	33.04	7.90	7.5		
No. Reg. No. on bags	As guaranteed	41.0	7.0	10.0	50180	Meets guarantee.
	As found	11.56	7.12	9.2		
No. analysis nor Reg. No. on bags.					50181	Is a medicine, not a food.
Reg. No. 115	As guaranteed	8.34	2.66	19.64	50182	Meets guarantee.
	As found	8.91	2.03	16.1		
No. analysis nor Reg. No. on bags.	As found	9.32	0.94	4.7	50183	Not registered. Sale illegal.
No. Reg. No. on bags	As guaranteed	24.0	5.0	10.0	50184	7.73 per cent deficiency in proteids; 5.46 excess fat.
	As found	16.27	10.46	9.1		
No. analysis nor Reg. No. on bags.	As guaranteed	14.0	14.0	7.0	50185	2.31 per cent deficiency in fat.
	As found	16.32	11.69	6.0		
Reg. No. 31	As guaranteed	18.0	3.0	6.0	50186	Meets guarantee.
	As found	18.29	1.97	5.6		
Bags registered No. 53 is No. Reg. with Dept.	As guaranteed	23.0	3.0	6.0	50187	
	As found	30.02	2.85	4.1		

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

DISTRICT OF OTTAWA—

1912.							
Feb. 16	Pure Oil Cake Meal.	50188	J. A. Forward, Ottawa.	3 lbs.	15	St. Lawrence Starch Co., Port Credit, Ont.	W. H. Dwyer, Ottawa.
" 16	Barley Feed.	50189	Ogilvie F. M. Co.	3 "	15	Vendors.	

DISTRICT OF KINGSTON—

Feb. 5	Royal Purple.	49551	J. McLeod, Kingston.	3 lbs.	100	W. A. Jenkins, London, Ont.	
" 5	Schumacher	49552	W. G. Peters, Kingston.	3 "	10	Quaker Oats Co., Peterboro.	
" 8	"	49555	Quaker Oats Co., Peterboro.	3 "	10		
" 8	Banner	49556	"	3 "	10		
" 8	Victor	49557	"	3 "	10		
" 8	Molac (Horse)	49558	"	3 "	10		
" 8	" (Dairy)	49559	"	3 "	10		

DISTRICT OF TORONTO—

Feb. 6	Reg. Stock Feed.	49321	The Caldwell Feed Co., Ltd., Dundas.	3 lbs.	5	Vendors.	
" 7	Oat Feed.	49367	Hayes & Ryan, Market Square, Hamilton.	3 "	5	Canada Cereal & M. Co., Canada.	
" 7	Victor	49368	J. Penfold, 96 John St., South, Hamilton.	2 "	10	The Quaker Oats Co., Peterboro.	
" 7	Star Poultry Meal.	49369	The Jas. Dunlop Co. Ltd., 127 John St. South, Hamilton.	3 "	5	Vendors.	
" 7	Alert Mixed Chop.	49370	"	3 "	5	"	
" 8	Schumacher	49371	W. Pringle & Son, 280 York St., Hamilton.	3 "	5	The Quaker Oats Co., Peterboro.	
" 12	Crescent	49372	The Chisholm Milling Co. Ltd., Toronto.	3 "	5	Vendors.	
" 13	'Jersey' Brand Maize Gluten Meal.	49373	St. Lawrence Starch Co., Ltd., Port Credit.	3 "	5	"	
" 13	Pure Oil Cake Meal.	49374	"	3 "	5	"	
" 14	Horse Food.	49375	Faramel Ltd., 222 Dupont St., Toronto.	3 "	5	"	
" 14	Cattle Food.	49376	"	3 "	15	"	
" 14	Molassine Meal	49377	F. Greenway, 1239 Bloor St., West, Toronto.	3 "	15	"	A. Wilson, Agent Toronto.

SESSIONAL PAPER No. 14

REGISTERED STOCK FEEDS.

Inspector's Report (Is not an expression of opinion.)	Analysis of Sample.	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Proteids	Fat.	Fibre.		
<i>Concluded.</i>						
		P. C.	P. C.	P. C.		
Reg. No. 32.	As guaranteed	20.0	11.0	8.0	5488	Deficiency of 1.23 per cent of fat.
	As found.	20.95	12.77	7.5		
No analysis nor Reg. No. on bags.	As guaranteed	10.0	2.5	8.5	50189	Meets guarantee.
	As found.	12.34	2.10	5.6		
JAS. HOGAN, INSPECTOR.						
Reg. No. 50 under P or P. Act					495	Is a medicine, not a food.
Reg. No. 13	As guaranteed	10.5	4.0	10.5	4352	Deficiency of 1.05 per cent fat.
	As found.	10.10	2.35	9.5		
" 13	As guaranteed	10.5	4.0	10.5	4953	Meets guarantee.
	As found.	9.32	2.96	10.4		
" 16	As guaranteed	8.5	3.5	9.0	4954	"
	As found.	8.23	2.88	8.9		
" 14	As guaranteed	8.0	3.5	12.0	4955	"
	As found.	7.79	2.6	11.7		
" 15	As guaranteed	10.0	3.5	12.0	4958	"
	As found.	11.27	2.58	12.1		
" 17	As guaranteed	15.0	3.5	12.0	4959	"
	As found.	15.01	3.71	10.8		
H. J. DAGER, INSPECTOR.						
	As guaranteed	4.6	0.81	2.71	4932	Up to guarantee.
	As found.	5.36	0.20	4.5		
Bags not Reg.	As found.	3.24	1.13	28.6	4936	Not registered and of very low value. If sold as Chop Feed is adulterated under the Act.
Reg. No. 11	As guaranteed	8.0	3.5	12.0	4368	Up to guarantee.
	As found.	8.53	2.96	10.4		
" 80	As guaranteed	12.93	3.01	10.11	4939	"
	As found.	20.06	4.29	7.4		
" 79	As guaranteed	10.38	4.17	10.77	4937	Up to guarantee; also meets requirements for chop feed.
	As found.	12.99	5.23	6.3		
" 13	As guaranteed	10.5	4.0	10.5	49371	Up to guarantee.
	As found.	4.11	3.09	10.5		
" 84	As guaranteed	9.0	5.0	20.0	4672	"
	As found.	9.36	4.59	15.1		
" 31	As guaranteed	18.0	3.0	6.0	49373	2.20 per cent deficiency in proteids.
	As found.	15.8	2.46	5.8		
" 32	As guaranteed	20.0	14.0	8.0	49374	Up to guarantee.
	As found.	10.91	14.50	8.0		
" 60	As guaranteed	11.60	5.08	9.4	49375	Up to guarantee.
	As found.	10.72	4.45	7.2		
" 61	As guaranteed	13.04	4.16	7.64	49376	"
	As found.	12.12	3.25	6.0		
No Reg. number on bags.	As guaranteed	7.0	0.0	7.0	49377	"
	As found.	9.71	0.16	6.0		

Date of Collection.	Analysis of Sample.	No. of Sample.	Name and Address of the Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF TORONTO—							
1912.							
Feb. 15	Blaichford's Calf Meal.	49378	W. H. Odell, Weston	3 lbs.	15	J. W. Barwell, Wankegan, Ill.	
" 15	Blaichford's Sugar & Flaxseed.	49379	" " "	3 "	15	" " "	
" 16	Ruby Chop	49380	Jas. Reynolds, Aurora	3 "	5	Canada Cereal & M. Co., Lindsay	
" 16	Gluten Feed	49381	Stiver Bros., Aurora	3 "	5	The Brantford Starch Works, Ltd., Brantford.	
" 19	Bibby's Cream Equivalent.	49382	S. F. M. O'Flynn & Son, Shelburne.	3 lbs.	15	Bibby & Sons, Liverpool.	
" 28	Dried Brewers (Pro Fat) Grains.	49383	Farmers Feed Co., Ltd., 108 Don Esplanade, Toronto.	3 "	5	Vendors	
" 28	Malted Corn	49384	" " "	3 "	5	" " "	
" 29	Molae	49385	Craunsey & Kelly, Dovercourt St., Toronto	778 3 "	5	The Quaker Oats Co., Peterboro.	
" 29	Dairy Feed	49386	" " "	3 "	5	Canadian Cereal & Milling Co., Ltd. Tillsonburg.	
DISTRICT OF LONDON—							
Feb. 19	Caldwell's Molasses Meal.	47889	W. J. Heaman, Exeter	3 jars.	15	Caldwell Feed Co., Dundas, Ont.	
" 19	Stock Feed	47890	" " "	3 "	25	International Stock Food Co., Toronto.	
" 20	Royal Purple Stock Specific.	48204	Ford & McLeod, Clinton	3 "	50	W. A. Jenkins, London, Ont.	
" 20	Pratt's Conditioner.	48206	" " "	3 "	25	Pratt Food Co., Toronto.	
" 22	Bartlett's Farmers Brand Cotton Seed Meal.	48224	O. H. Killer, Stratford	3 "	Nil.	Bartlett Co., Detroit, Mich.	
DISTRICT OF WINDSOR—							
Feb. 15	Cotton Seed Feed Meal "Cream" Brand.	47880	A. M. Hamilton & Son, London.	a s. Nil		Tennessee Fibre Co., Memphis, Tenn.	
Jan. 12	Cotton Seed Meal ("Gayoso") Brand.	48075	D. B. Cohoe, Burgessville	3 "	" "	Gayoso Oil Works, Memphis, Tenn.	

SESSIONAL PAPER No. 14

REGISTERED STOCK FEEDS.

Inspector's Report (Is not an expression of opinion.)	Analysis of Sample.	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Proteins.	Fat.	Fibre.		
<i>Concluded</i>						
		p.c.	p.c.	p.c.		
No. Reg. Number on bags.	As guaranteed	25.0	5.0	5.0	9378	Up to guarantee.
	As found.	25.20	4.96	5.0		
"	As guaranteed	27.0	10.0	6.0	9379	"
	As found.	25.90	9.86	6.5		
Reg. No. 115.	As guaranteed	8.34	2.66	10.61	9380	"
	As found.	7.52	2.29	17.1		
" 12.	As guaranteed	15.0	10.0	6.0	9381	1.36 per cent deficiency of proteins.
	As found.	13.04	11.24	6.1		
No. Reg. number on bags.	As guaranteed	14.0	14.0	7.0	9382	Up to guarantee.
	As found.	17.28	15.10	6.3		
Reg. No. 98.	As guaranteed	20.01	5.23	22.94	9383	
	As found.	23.33	5.50	13.1		
" 140.	As guaranteed	15.13	3.11	6.0	9384	
	As found.	17.67	2.71	6.2		
Analysis on bags, but no Reg. number.	As guaranteed	15.0	3.5	12.0	9385	
	As found.	15.92	3.48	12.1		
No. Reg. number on bags.	As guaranteed	17.0	4.5	15.0	9386	3.53 per cent deficiency in proteins; 5.6 excess fibre.
	As found.	13.47	3.35	20.6		
JNO. TALBOT, ACTING INSPECTOR.						
Reg. No. 124.	As guaranteed	4.6	0.81	2.71	47889	Up to guarantee.
	As found.	5.04	0.20	1.2	47890	Is a medicine, not a food.
					48204	
Reg. No. 148.					48206	Is a condition powder, not a food.
	As guaranteed	11.0	7.0	10.0	48224	Up to guarantee.
	As found.	40.16	7.38	9.9		
JNO. TALBOT, INSPECTOR.						
No. Reg. No.	As guaranteed	20.0	5.0	22.0	47880	Up to guarantee.
	As found.	22.63	4.52	20.6		
	As found.	43.75	6.78	7.00	48075	Not registered. No sale.

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.							
Feb. 15	Stock Feed...	48631	Olafsson Grain Co., Winnipeg.	4lbs.	50	International Stock Food Co., Toronto.	Scott, Batlgate & Co., Winnipeg.
" 15	"	48632	Carnefac Stock Food Co., Winnipeg.	3 "	50	W. B. Douglas, Winnipeg.	.....
" 15	"	48633	Laing Bros., Winnipeg...	3 "	25	Colonial Stock Food Co., Weston, Ont.	.....
" 15	"	48634	" " " "	3 "	50	Pratt Food Co. of Canada, Ltd.	.....
" 15	"	48635	The Mayer Co., Ltd., Winnipeg.	3 "	Nil.	Vendors .....	.....
DISTRICT OF CALGARY—							
Mar. 9	Stock Feed	44151	Hegler & Hegler, Edmonton.	3 lbs.	25	De Hess & Clark, Ashland, U.S.	.....
" 9	"	44152	" " " "	3 "	25	International Stock Food Co., Minneapolis.	.....
" 19	"	44153	A. E. McKenzie Co., Ltd., Calgary.	3 "	25	G. E. Lee Co. ....	.....
" 19	"	44154	" " " "	3 "	73	The G. E. Conkey Co., Cleveland, U.S.	.....
DISTRICT OF NELSON—							
Feb. 13	Stock Feed	49602	J. H. Clements, Kamloops.	1 pkg.	50	International Stock Food Co., Minneapolis.	.....
" 20	"	49629	McNair & Haddock, Ashcroft.	3 lbs.	10	.....	Evans, Coleman & Evans, Vancouver.
" 20	"	49630	Harvey Bailey Ltd., Ashcroft.	5 "	60	Beaver Mfg. Co. Galt.	.....
Apr. 1	Beef Scrap	49639	Swift Canadian Co., Nelson, B.C.	3 "	25	Swift Canadian Co., Edmonton.	.....
" 1	Poultry Bone	49640	" " " "	3 "	25	"	.....
DISTRICT OF VANCOUVER—							
Feb. 23	Stock Feed	38315	Vancouver Milling and Grain Co., Vancouver.	3 lbs.	Nil.	Vendors
" 23	"	38316	Brackman Ker Milling Co., New Westminster.	3 "	"	"

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REGISTERED STOCK FEEDS.

Inspector's Report (Is not an expression of opinion.)	Analysis of Sample.	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Proteids	Fat.	Fibre.		
A. C. LARIVIERE, INSPECTOR.						
		p.c.	p.c.	p.c.	48631	Is a medicine.
					48632	"
					48633	"
					48634	"
Reg. No. 11.	As guaranteed	18.50	5.17	3.51	48635	Up to guarantee, as registered, but improperly labelled as con- taining 22.17 p.c. proteids.
	As found.	20.66	6.46	6.46		
R. W. FLETCHER, INSPECTOR.						
					44151	Is a medicine.
					44152	"
					44153	"
					44154	"
THOS. PARKER, INSPECTOR.						
					49602	Is a medicine.
	As found.	2.77	0.38	35.2	49629	Not registered. Is adulterated as chop feed.
					49639	Is a medicine.
Reg. No. 134	As guaranteed	50.0	8.0	none.	49639	Up to guarantee.
	As found.	62.20	12.62	"		
" 122	As guaranteed	25.0	5.0	Phos:	49640	Deficiency of 3.36 per cent of fat
	As found.	24.86	1.64	plate of lime 50 p.c. 56.75		
J. F. POWER, INSPECTOR.						
Reg. No. 131	As guaranteed	10.0	2.5	10.8	38315	Up to guarantee.
	As found.	18.90	3.88	10.7		
" 138	As guaranteed	18.0	5.0	10.0	38316	4.22 per cent deficiency in pro- teids, and 1.62 in fat.
	As found.	13.78	3.38	9.3		

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—							
1912.							
Mar. 12	Corn Chop . .	49130	The Brackman Ker Mill- ing Co., Ltd., Victoria, B.C.	3 lbs .	8	Vendors	
" 12	Dairy Chop . .	49131	" "	3 " .	9	"	
" 12	Jersey Chop . .	49132	" "	3 " .	8	"	
" 12	Dairy Chop . .	49133	T. H. Howe, Victoria, B.C.	3 " . . .		Vancouver M. Co., Vancouver, B.C.	
" 12	Reg. Stock Feed.	49134	" "	3 " . . .		Ogilvie Flour Mills, Winnipeg.	

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REGISTERED STOCK FEEDS.

Inspector's Report (Is not an expression of opinion).	Analysis of Sample.	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Proteids	Fat.	Fibre.		
D. O'SULLIVAN, INSPECTOR.						
		p.c.	p.c.	p.c.		
Reg. No. 136	As guaranteed	9.0	4.0	8.0	9130	Up to guarantee and legal as chop feed.
	As found.	11.81	3.92	7.2		
137	As guaranteed	7.0	3.0	15.0	9131	Up to guarantee, but below legal chop feed.
	As found.	6.42	2.40	17.6		
138	As guaranteed	18.0	5.0	10.0	9132	Up to guarantee, and up to legal standard for chop feed.
	As found.	19.60	4.52	12.6		
131	As guaranteed	10.0	2.5	18.0	9133	Up to guarantee and to legal chop feed.
	As found.	10.76	2.08	9.2		
Statement re Schedule A was printed on sacks, except Reg. No. which was not visible on any of the sacks.	As found.	6.24	2.52	25.10	9134	No guarantee analysis given by Vendor hence sale illegal.

APPENDIX F.

BULLETIN No. 242—FERTILIZER INSPECTION 1912.

OTTAWA, September 23, 1912.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister Inland Revenue.

SIR,—I have the honour to report to you upon 324 samples of fertilizers collected by our inspectors in April and May of this year. This report should have been in your hands some months ago, and many inquiries have been made for it by interested parties. The delay has been quite unavoidable and is due to the fact that this laboratory is undermanned, and is quite unable to keep up with the demands made upon it.

One of the samples in question is not a fertilizer in the legal sense (No. 37457) so that the present report deals only with 323 samples.

Of this number 287 samples meet the guaranteed value of the brands which they represent, and for which they are sold. Twenty-six (26) other samples which were sold without registration numbers have been identified as to their registration by the records filed with the Department.

For purposes of such identification use has been made of the name of the brand and the name and the location of the manufacturer. The samples now referred to meet the requirements of the guaranteed value; and note of this is made in the report. Registration numbers supplied from Departmental records as just described, are printed in brackets, to distinguish them from registration numbers furnished by our inspectors, as found on the samples.

Strictly speaking the 26 samples in question are sold illegally (Section 7 of the Act) and the vendors are amenable to the penalties named in Section 15.

There is nothing to justify failure to observe the requirements of an Act which has been three years in existence; and it is my duty to recommend enforcement of legal penalties in these cases. There remain 10 samples to be specially considered as follows:—

No. 47072. Is sold without a registration number, although its guaranteed value appears on a tag. It shows 10 per cent deficiency in phosphoric acid, and is adulterated under the Act.

No. 47073. Is not registered, and is amenable to penalties imposed by Section 15.

No. 47089. This sample is adulterated as being 6 per cent below its guarantee in phosphoric acid.

No. 47093. This sample is adulterated as being 3.5 per cent below guarantee value in potash, and 0.75 below in ammonia.

37433. Is not a manufactured fertilizer and said to be sold by mistake.

No. 37437. Is slightly below strength in ammonia. The total value of the fertilizer is however fully equal to its guarantee, there being compensating excess of phosphoric acid.

No. 49407. Is more than one per cent below guarantee in nitrogen, but value is compensated by excess of phosphoric acid.

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No. 48255. Samples said to be from old stock, not offered for sale.

No. 44179. Is not registered, and therefore amenable to penalty fixed by Section 15 of the Act.

No. 38348. Sold without registration, therefore subject to penalties fixed by Section 15.

As already stated, this Act has been three years in existence and there should be no difficulty, in securing its strict enforcement. Nevertheless, I am convinced the present machinery is inadequate to this end.

Fertilizers are largely sold to consumers without coming into the possession of agents, or being held in stock by these last. This fact makes it difficult to obtain samples of the goods which actually come into the hands of the consumers.

In order to get these, it would be necessary for our inspectors to visit the consumers, a condition manifestly impossible of fulfilment. Provision is made in Section 10 of the Act, for the user of the fertilizer himself to secure analysis of the goods supplied him, on payment of a nominal sum. As a matter of fact comparatively few purchasers of fertilizers avail themselves of this privilege, less on account of the cost than because of the difficulty of securing a legally representative sample of goods.

The 323 samples herein reported represent 234 different brands, of which 108, or nearly one-half are imported. It would appear to be easily possible to secure samples of these by co-operation with officials of the Customs Department who could sample the goods at the port of entry; or notify our own inspectors to do this. I shall endeavour to have the suggested plan carried out during the coming year. There appears to be a very sincere desire on the part of manufacturers to live up to the requirements of the Act; and the few instances of failure to meet its demands are seemingly due to carelessness, rather than to any purposed fraud.

In many cases where the dealer has been guilty of selling without a registered number, it has been found by correspondence that the article sold was actually registered by the manufacturer but sold without production of the registration number. In such case the dealer alone is to be blamed. Where through carelessness in handling or storage the registration number is obliterated or lost, the vendor is guilty of violating the terms of the Act, although such violation may be quite unintentional.

I beg to recommend the publication of this report as Bulletin No. 242.

I have, the honour to be, Sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
1912.								
April 29	1-8-5 Brand ..	47064	G. Roy, Kentville.	3 lbs.	Nil.	Dom. Fert. Co., St. Stephens, N.B.		
" 29	Ground Bone.	47066	Berwick Fruit Co., Berwick, N.S.	3 "	" "	Nova Scotia Fert. Co., Hal- ifax, N.S.	Not num- bered.	
" 29	Chutes Special	47067	" "	3 "	" "	Pidgeon Fert. Co., Windsor, N.S.		
" 29	Ground Bone.	47068	" "	3 "	" "	" "		
" 29	Scotch Potato Manure.	47069	United Fruit Co., Berwick, N.S.	3 "	" "	A. Cross & Son, Glasgow, Scot.		
" 29	Basic Slag A. Quality.	47070	" "	3 "	" "	A. Cross & Son, Sydney, N.S.		
May 3	Thomas Phos- phate Flour.	47071	D. Hill, Truro, N. S.	3 "	" "	Leeds Phosphate Works, Leeds, Eng.		
" 3	Potato Phos- phate.	47072	Colchester Co., Far- mers Co-op. Ass., Truro, N.S.	3 "	" "	F. D. Burns, Truro, N.S.	No reg. num- ber on bag.	
" 7	Ground Bone.	47073	Hillsley & Harvey, Port Williams, N.S.	3 "	" "	Unknown	Holinghurst & Co., Lon- don, Eng.	No number on bag.
" 7	Nitrate of Soda	47074	" "	3 "	" "	" "	Pidgeon Fer- Co., Wmd- sor, N.S.	
" 7	Stockbridge Complete Manure.	47075	Burgess & Co., Wolfville, N.S.	3 "	" "	Bowker & Co., Boston, Mass.		
" 7	Market Gar- den.	47076	" "	3 "	" "	" "		
" 7	6% Potato Phosphate.	47077	" "	3 "	" "	" "		
" 7	Ground Bone.	47078	R. E. Harris & Son, Wolfville, N.S.	3 "	" "	Swifts Lowell Fert. Co., Lowell Mass.		
" 7	Potato Phos- phate.	47079	" "	3 "	" "	" "		
" 7	Potato Manure	47080	" "	3 "	" "	" "		

DISTRICT OF NOVA SCOTIA—

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FERTILIZERS AS SOLD.

Registration Number		Results of Analysis.										Remarks and Opinion of the Chief Analyst
		Nitrogen, p.c.			Phosphoric Acid, p.c.							
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.	Po tash.	No. of Sample.		
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
82	As guaranteed	0.80	1.0	6.0	2.0	1.0	9.0	8.0	5.0	47074	Meets guarantee.	
	As found.	0.93	1.43	5.05	2.55	1.75	9.35	7.60	6.18			
140	As guaranteed		3.0				23.0			47066	Value equal to assumed guarantee.	
	As found.	0.84	1.02	1.75	15.50	13.95	31.20	17.25				
275	As guaranteed	4.0	4.80	6.0	1.0	2.0	9.0	7.0	4.0	47067	Meets guarantee.	
	As found.	3.38	4.11	4.00	5.55	2.45	12.00	9.55	4.05			
27	As guaranteed		3.0				20.00			47068		
	As found.	2.69	3.26				23.55					
515	As guaranteed	2.47	3.0	7.0	1.0	1.0	9.0	8.0	5.0	47069		
	As found.	2.58	3.14	8.20	3.10	2.25	13.55	11.30	4.58			
557	As guaranteed						12.8			47070		
	As found.				14.56	1.04	16.00	14.96				
253	As guaranteed						18.0			47071		
	As found.						21.05					
	As guaranteed		4.0				15.0		4.0	47072	10 p.c. deficiency in $\frac{1}{2}$ O_2 . Not registered; but analysis on tag.	
	As found.	2.05	2.49				17.8		3.96			
	As guaranteed									47073	Not registered.	
	As found.	2.25	2.73	0.55	13.15	11.25	24.95	13.70				
326	As guaranteed	15.65	19.0							47074	Meets guarantee.	
	As found.	16.30	19.79									
88	As guaranteed	3.29	4.0	4.0	2.0	1.0	7.0	6.0	10.0	47075		
	As found.	3.22	3.91	4.60	3.90	1.75	10.25	8.50	11.36			
90	As guaranteed	2.47	3.0	1.0	2.0	1.0	7.0	6.0	10.0	47076		
	As found.	2.41	2.93	4.25	2.95	1.40	8.60	7.20	12.24			
96	As guaranteed	0.82	1.0	4.0	2.0	1.0	7.0	6.0	6.0	47077		
	As found.	0.82	1.00	5.15	1.95	1.70	8.80	7.10	6.72			
117	As guaranteed	2.46	3.0				23.0			47078		
	As found.	2.53	3.08				28.80					
110	As guaranteed	2.46	3.0	4.0	4.0	1.0	9.0	8.0	6.0	47079		
	As found.	2.18	2.65	6.05	2.75	2.45	10.25	7.80	6.68			
14	As guaranteed	1.64	2.0	4.0	3.0	1.0	8.0	7.0	4.0	47080		
	As found.	1.83	2.22	6.05	2.65	1.20	9.90	8.70	5.60			

R. J. WATGH, INSPECTOR.

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

DISTRICT OF NOVA SCOTIA—

1912.												
May	7 Ground Bone	47081	R. E. Harris & Son, Wolfville, N.S.	3 lbs.	Nil.	Essex Fert. Co., Boston, Mass.						
"	7 Corn and Grass	47082	"	3 "	"	"						
"	7 Super-phosphate	47083	"	3 "	"	"						
"	8 Brunswick Brand	47084	Pidgeon Fert. Co., Windsor, N.S.	3 "	"	Vendors						
"	8 Potato Manure	47085	"	3 "	"	"						
"	8 No. 1 Slag	47086	"	3 "	"	Stoockman & Hooschitzlee						
"	8 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>S</td><td>Square</td></tr><tr><td>B</td><td>Brand.</td></tr></table>	S	Square	B	Brand.	47087	F. W. Dimock, Windsor, N.S.	3 "	"	Bowker & Co., Boston, Mass.		
S	Square											
B	Brand.											
"	10 Imperial Superphosphate	47088	E. D. Smith, Dartmouth, N.S.	3 "	"	Prov. Chemical Fert. Co., St. John, N.B.						
"	10 Bone Meal	47089	"	3 "	"							
"	13 Ground Bone	47090	A. S. Melvin & Co., Halifax, N.S.	3 "	"	Nova Scotia Fertilizer Co., Halifax, N.S.						
"	13 Ceres	47091	"	3 "	"	"						
"	13 Potato Phosphate	47092	"	3 "	"	"						
"	14 High Grade	47093	Nova Scotia Fert. Co., Halifax, N.S.	3 "	"	Vendors						
"	14 Potato Grower	47094	"	3 "	"	"						
"	14 Special Potato Phosphate	47095	"	3 "	"	"						
"	14 10% Potato Phosphate	47096	"	3 "	"	"						
"	17 Thomas Phosphate Powder	47097	Amherst Trading Co., Amherst, N.S.	3 "	"	Leeds Phosphate Works, Leeds, Eng.						
"	17 Basic Slag B. Quality	47098	R. A. Beckwith, Amherst, N.S.	3 "	"	A. Cross & Sons, Sydney, N.S.						
"	30 Acid Phosphate	47099	Berwick Trust Co., Berwick, N.S.	3 "	"	Dom. Fert. Co., St. Stephen, N.S.						
"	30 Blood Bone and P. Ash	47100	C. O. Cook & Son, Waterville.	3 "	"	Am. Agr. Chem. Co., New York						
"	30 Ground Bone	47 01	"	3 "	"	New England Co., Boston, Mass.		No registered number on bags.				

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FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.								Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid p.c.						
		Total including that of Nitric Acid or ammoniac if present.	Total calculated as Ammonia	Soluble in Water.	Reverted or Citrate Soluble	Insoluble.	Total.	Total available.	Potash.	
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
(124)	As guaranteed As found.	2.46 2.89	3.0 3.46	1.95	12.29	14.05	27.39	13.25	trace.	47081 Meets guarantee.
129	As guaranteed As found.	0.82 0.94	1.0 1.15	4.0 7.86	4.0 4.00	1.0 2.59	9.0 11.10	8.0 8.80	4.0 4.65	4708 "
122	As guaranteed As found.	1.25 1.22	1.5 1.48	4.0 6.35	3.0 0.55	1.0 2.55	8.0 9.45	7.0 6.90	2.0 2.39	4708 "
28	As guaranteed As found.	.. 3.53	4.0 4.29	..	..	.. 1.1	8.0 8.45	6.0 7.00	10.0 9.54	4708 "
29	As guaranteed As found.	.. 2.06	2.5 2.50	..	..	1.75	9.65	7.90	6.02	4708 "
518	As guaranteed As found.	.. ..	.. ..	..	15.0	3.9	18.0	..	..	4708 "
95	As guaranteed As found.	1.65 1.47	2.0 1.89	4.0 4.25	2.0 3.85	1.0 1.60	7.0 9.70	6.0 8.10	2.0 2.31	4708 "
69	As guaranteed As found.	.. 2.38	3.0 2.89	..	..	.. 3.20	10.0 11.35	.. 8.15	1.5 1.75	4708 "
72	As guaranteed As found.	.. 2.79	3.10 3.39	..	..	..	24.15 17.75	..	..	4708 35 p.c. below guarantee in phosphoric acid.
41	As guaranteed As found.	.. 2.21	3.0 2.68	..	..	..	23.0 25.55	..	..	4709 Meets guarantee.
37	As guaranteed As found.	.. 1.59	2.0 1.82	..	..	2.0 4.75	9.0 10.05	7.0 8.90	2.0 3.05	4709 "
38	As guaranteed As found.	.. 1.72	2.0 2.69	..	..	2.0 1.70	9.0 10.70	7.0 9.00	4.0 4.77	47092 "
36	As guaranteed As found.	.. 1.83	4.0 2.23	..	..	2.0 2.15	8.0 8.30	6.0 6.15	10.0 6.18	4709 35 p.c. low in potash and 9.75 in ammonia.
452	As guaranteed As found.	.. 1.84	2.0 2.23	..	..	..	7.0 11.55	..	2.0 3.95	47094 Meets guarantee.
40	As guaranteed As found.	.. 1.71	2.5 2.07	..	..	2.0 2.85	8.0 11.25	6.0 8.10	7.0 6.68	47095 "
41	As guaranteed As found.	.. 2.60	2.5 3.16	..	..	2.0 2.60	8.0 10.70	6.0 8.10	10.0 11.00	47096 "
253	As guaranteed As found.	.. ..	.. ..	..	..	..	18.00 18.19	..	..	47097 "
555	As guaranteed As found.	.. ..	.. ..	..	11.2	..	..	..	..	47098 "
600	As guaranteed As found.	.. ..	.. ..	..	14.20	0.85	15.05	14.20	16.0	4709 "
266	As guaranteed As found.	0.82 0.88	1.0 1.07	6.0 6.85	2.0 2.40	1.0 1.25	9.0 10.50	8.0 9.25	5.0 6.85	4710 "
(139)	As guaranteed As found.	2.46 2.41	3.0 2.92	..	..	..	23.0 31.60	..	..	47101 "

Continued.

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NOVA SCOTIA								
1912.								
May 30	Plain Super-phosphate.	47102	C. O. Cook & Son, Waterville.	3 lbs.	Nil.	Am. Agr. Chem. Co., New York		
" 30	Aroostook Complete Manure.	47103	" "	3 "	" "	" "		

DISTRICT OF PRINCE EDWARD ISLAND

May	8 Nitrate of Soda	46196	John H. Gill, Charlottetown, P.E.I.	5 lbs.	15	The Nitrate Agencies Co., New York.		
"	8 Muriate of Potash	46197	" "	3 "	10	The Nitrate Agencies Co., New York.	Made in Germany.	
"	8 Sulphate of Potash.	46198	" "	3 "	10	" "	" "	
"	8 Muriate of Potash	46199	Auld Bros., Charlottetown, P.E.I.	3 "	10	German Kali Works, New York	" "	
"	8 Super-phosphate.	46200	" "	3 "	10	Thos Vickers & Sons, Ltd., Manchester, Eng.	" "	
"	8 Nitrate of Soda	46201	" "	5 "	15	" "	" "	
"	8 Thomas Phosphate.	46202	" "	5 "	10	Swan Bros, Wigan, Eng.	" "	
"	8 Super-phosphate.	46203	J. H. Gill, Charlottetown, P.E.I.	3 "	10	Alex. Cross & Son, Ltd., Glasgow, Scot.	" "	
"	20 Phospho Potassic Fertilizer.	46204	J. H. Gill, Charlottetown, P.E.I.	3 "	10	Alex. Cross & Son, Ltd., Glasgow, Scot.	" "	
"	20 Canadian Potato Fertilizer.	46205	" "	3 "	10	" "	" "	
"	20 Cross Garden Fertilizer.	46206	" "	3 "	10	" "	" "	
"	21 Swifts Lowell Animal Brand.	46207	A. Horne & Co., Ch. Town, P.E.I.	3 "	10	Swifts Lowell Fert. Co., Boston, Mass.	" "	
"	22 Ground Bone.	46208	" "	3 "	10	" "	No reg. number.	
"	22 Swifts Lowell Potato Phosphate.	46209	" "	3 "	10	Swifts Lowell Fert. Co., Boston, Mass.	" "	

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Remarks and Opinion of the Chief Analyst.
		Nitrogen p. c.		Phosphoric Acid p. c.					
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.		Potash.

Concluded.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
309	As guaranteed			12.0	2.0	1.0	15.0	14.0			47192
	As found.			14.55	3.40	2.15	20.10	17.95			Meets guarantee.
184	As guaranteed	2.47	3.0	4.0	2.0	1.0	7.0	6.0	10.0	47103	
	As found.	2.21	2.68	5.75	3.10	1.15	10.00	8.85	11.08		

WM. A. WEEKS, INSPECTOR.

255	As guaranteed	15.0	18.0								46196	Meets guarantee.
	As found.	15.58	18.53									
257	As guaranteed								50.0		46197	
	As found.								50.00			
258	As guaranteed								40.0		46198	
	As found.								46.80			
327	As guaranteed								50.0		46199	
	As found.								49.75			
324	As guaranteed							16.0			46200	
	As found.					2.20	19.35	17.15				
179	As guaranteed	15.0	18.23								46201	
	As found.	16.00	19.43									
323	As guaranteed				11.20	2.80	14.0	11.20			46202	
	As found.				14.32	3.68	18.00	14.32				
327	As guaranteed			16.0							46203	
	As found.			17.80				18.70				
427	As guaranteed				9.0					2.5	46204	
	As found.			2.40	6.85	2.40	11.65	9.25		2.12		
516	As guaranteed		3.0					9.0		6.0	46205	
	As found.	3.06	3.50					11.15		6.80		
587	As guaranteed		5.16	7.00						5.00	46206	
	As found.	4.14	5.03	9.15				13.45		4.60		
116	As guaranteed	2.46	3.0	4.0	1.0	2.0	10.0	8.0	4.0		46207	
	As found.	2.41	2.92	7.85	1.60	1.40	10.95	9.45	4.63			
(117)	As guaranteed	2.47	3.0					23.0			46208	
	As found	2.60	3.15					26.05				
(110)	As guaranteed	2.40	3.0	4.0	4.0	1.0	9.0	8.0	6.0		46209	
	As found.	2.74	3.23	6.85	4.50	0.65	12.00	11.35	7.06			

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

DISTRICT OF PRINCE EDWARD ISLAND

1912.								
June 17	Sulphate of Potash.	46210	Auld Bros., Ch. Town, P.E.I.	3 lbs.	.....	German Kali Wks. Leopoldshall Strassfurt Ger.		
" 20	Acid Phosphate.	46216	J. H. Gill, Ch. Town, P.E.I.	3 "	.....	Nova Scotia Fert. Co., Halifax, N.S.	R. E. Mutch & Co., Ch. Town.	

DISTRICT OF NEW BRUNSWICK

April 16	Thomas Phosphate Powder.	45655	The Anglo Can. Chem. Co., St. John, N.B.	3 jars.	10	H. & E. Albert, London, Eng.		
" 16	Special Odourless Potato Phosphate.	45656	" " "	3 "	10	" "		
" 17	Stockbridge Special Complete Manure.	45657	D. J. Seely & Son, St. John, N.B.	3 "	10	Bowker Fert. Co., Boston, Mass.		
" 17	Bowkers 6% Potato Fertilizer.	45658	" " "	3 "	10	" "		
" 17	Market Garden	45659	" " "	3 "	10	" "		
" 18	Potato Manure	45660	P. Nase & Son, St. John, N.B.	3 "	15	Lowell Fert. Co., Boston, Mass.		
" 18	Potato Phosphate.	45661	P. Nase & Son, St. John, N.B.	3 jars.	15	Lowell Fert. Co., Boston, Mass.		
" 18	Empress Brand	45662	" " "	3 "	15	" "		
" 19	Farm and Garden Phosphate.	45663	D. J. Seely & Son, St. John, N.B.	3 "	10	Bowker Fert. Co., Boston, Mass.		
" 19	Bowkers Bone and Potash "Square" Brand.	45664	" " "	3 "	10	" "		
" 19	Bowkers Potato and Vegetable Phosphate.	45665	" " "	3 "	10	" "		
" 22	10% Complete Aroostook.	45666	The Prov. Chem. Fert. Co., Ltd., St. John, N.B.	3 "	19	Vendors		
" 22	Special Potato Phosphate.	45667	" " "	3 "	10	" "		
" 22	Potato Manure	45668	" " "	3 "	10	" "		
" 26	Four-Six-Ten.	45669	Dom. Fert. Co., Ltd., St. Stephens, N. B.	3 "	10	" "		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of analysis.							Remarks and Opinion of the Chief Analyst.	
		Nitrogen p.c.		Phosphoric Acid p.c.						
		Total including that of Nitric Acid or ammonia if present	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citrate-Soluble.	Insoluble.	Total.	Total available.		Potash.
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
306	As guaranteed As found.							18.0 19.60	46216 Meets guarantee	
328	As guaranteed As found.			16.80	14.0 2.15	2.0 18.95	16.0 16.80		46216	
J. C. FERGUSON, INSPECTOR										
1	As guaranteed As found.							15.0 19.25	45655 Meets guarantee	
112	As guaranteed As found.	2.0 1.42	1.72			1.00	7.0 9.10	7.0 8.10	45656	
88	As guaranteed As found.	3.20 3.29	4.0 4.00	4.0 5.45	2.0 3.25	1.0 1.05	7.0 9.45	6.0 8.40	10.0 10.54	45657
96	As guaranteed As found.	0.82 0.91	1.0 1.11	4.0 5.25	2.0 2.75	1.0 1.05	7.0 9.05	4.0 8.00	6.0 8.05	45658
90	As guaranteed As found.	2.47 2.31	3.0 2.81	4.0 3.75	2.6 4.20	1.0 0.85	7.0 8.80	6.0 7.65	10.0 10.98	45659
160	As guaranteed As found.	1.64 1.81	2.0 2.20	3.0 4.00	4.0 4.55	1.0 1.00	8.0 9.55	7.0 8.55	4.0 4.75	45660
456	As guaranteed As found.	2.46 2.46	3.0 2.98	4.0 7.20	4.0 1.65	1.0 0.95	9.0 9.80	8.0 8.85	6.0 6.58	45661
158	As guaranteed As found.	1.24 1.04	1.5 1.20	3.0 5.75	4.0 2.10	1.0 1.55	8.0 9.40	7.0 7.8	2.0 2.20	45662
94	As guaranteed As found.	1.65 1.73	2.0 2.10	6.0 5.85	2.0 3.45	1.0 2.20	9.0 11.10	8.0 9.30	2.0 2.85	45663
95	As guaranteed As found.	1.65 2.07	2.0 2.52	4.0 6.90	2.0 0.70	1.0 1.65	7.0 9.25	6.0 7.60	2.0 2.72	45664
92	As guaranteed As found.	1.65 1.85	2.0 2.25	6.0 6.20	2.0 2.40	1.0 2.90	9.0 11.50	8.0 8.60	2.0 2.51	45665
65	As guaranteed As found.		4.0 3.09				8.0 9.50		10.0 10.93	45666
63	As guaranteed As found.		2.5 2.67				8.6 9.85		6.0 6.64	45667
70	As guaranteed As found.		2.0 1.93				7.0 9.60		4.0 4.11	45668
487	As guaranteed As found.	3.3 3.00	1.0 3.64	4.0 2.60	2.0 4.50	1.00 1.15	7.0 8.25	6.0 7.10	10.0 9.67	45669

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NEW BRUNSWICK—								
1912.								
April 26	Three-Six-Ten	45670	Dom. Ft. Co., Ltd., St. Stephens, N.B.	3 jars.	10	Vendors.....		
" 26	Two-Eight-Ten.	45671	" " " "	3 "	10	"		
" 26	Bradleys X. L. Superphosphate.	45672	Hill Bros., St. Stephens, N.B.	3 "	10	The Am. Agr. Chem. Co., Boston, Mass.		
" 26	Bradleys Potato Manure.	45673	" " " "	3 "	10	" "		Name and analysis on bags but no registration number.
May 2..	High Grade Potato Phosphate.	45674	Knight & Barr, Fredericton, N. B.			The Nova Scotia Fert. Co., Halifax, N.S.		
" 2..	10% Potato Phosphate.	45675	" " " "	3 "	10	" "		
" 2..	New England Potato Fertilizer.	45676	T. W. Sanson, Fredericton, N.B.	3 "	10	New England Fert. Co., Lowell, Mass.		
" 3..	Reads High Grade Farmers Friend.	45677	Phillips & Estey Co., Woodstock, N.B.	3 "	10	The Am. Agr. Chem. Co., New York.		
" 3..	Great Eastern	45678	Salomon Perley, Woodstock, N.B.	3 "	10	" "		
" 3..	Bradleys High Grade with 10% Potash.	45679	Benn & Turney, Woodstock, N.B.	3 "	10	" "		
" 4..	Coe's Complete Manure with 10% Potash.	45680	Porter Manzer Co. Ltd., Perth, N.B.	3 "	Nil.	The Coe Montimer Co., New York.		
" 6..	Blood Bone and Potash.	45681	Warren Jamer, Andover, N.B.	3 "	15	Prov. Chem. Fert. Co., Ltd., St. John, N.B.		
" 9..	Pecriess	45682	The Sussex Mercantile Co. Ltd., Sussex, N.B.	3 "	10	New England Fert. Co., Boston, Mass.		
" 9..	Corn and Grain	45683	" " " "	3 "	10	" "		No registered number on bags.
" 9..	Basic Slag A.	45684	" " " "	3 "	10	The Cross Fert. Co. Ltd., Sydney, N.S.		
" 9..	Turnip Phosphate.	45685	Mills Eveleigh, Ltd., Sussex, N. B.	3 "	10	Nova Scotia Fert. Co., Halifax, N.S.		
" 10..	Pacific Potato Special.	45686	Toombs & Son, Moncton, N.B.	3 "	10	The Am. Agr. Chem. Co., New York.		
" 10..	Pacific Nobsque Guano for all crops.	45687	" " " "	3 "	10	" "		
" 10..	Soluble Pacific Guano.	45688	" " " "	3 "	10	" "		
" 10..	Potato Grower	45689	" " " "	3 "	10	The Nova Scotia Fert. Co., Halifax, N.S.		

SESSIONAL PAPER No. 14
FERTILIZERS AS SOLD.

		Results of Analysis.								Remarks and Opinion of the Chief Analyst.
Registration Number.	Analysis of Sample.	Nitrogen p. c.			Phosphoric Acid p. c.				No. of Sample.	
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.			Potash.
<i>Concluded.</i>										
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
488	As guaranteed	2.4	3.0	1.0	2.0	1.0	7.0	6.0	10.0	45670 Meets guarantee.
	As found.	2.67	3.25	2.25	4.05	1.65	7.95	6.50	10.33	
489	As guaranteed	1.6	2.0	6.0	2.0	1.0	9.0	8.0	10.0	45671
	As found.	2.03	2.47	5.75	3.75	0.5	10.00	9.5	12.51	"
2	As guaranteed	2.0	2.5	6.0	2.0	1.0	9.0	8.0	1.5	45672
	As found.	1.80	2.19	4.15	4.25	1.20	9.60	8.40	2.80	"
190	As guaranteed	2.47	3.0	1.0	2.6	1.0	7.0	6.0	5.0	45673
	As found.	2.25	2.75	4.50	1.90	0.85	7.25	6.40	5.13	"
36	As guaranteed	.....	4.0	.....	.....	2.0	8.0	6.0	10.0	45674
	As found.	2.87	3.40	4.45	7.00	0.70	9.75	9.05	12.40	"
41	As guaranteed	2.0	2.5	.....	.....	2.0	8.0	6.0	10.0	45675
	As found.	1.68	2.04	.....	.....	1.5	8.35	6.85	10.14	"
133	As guaranteed	1.64	2.0	4.0	3.0	1.0	8.0	7.0	4.0	45676
	As found.	1.85	2.28	6.25	1.10	3.05	10.40	7.35	4.84	"
10	As guaranteed	2.47	3.0	1.0	2.0	1.0	7.0	6.0	10.0	45677
	As found.	3.09	3.75	3.20	4.20	1.25	8.65	7.40	11.22	"
201	As guaranteed	3.29	4.0	4.0	2.0	1.0	7.0	6.0	10.0	45678
	As found.	3.16	3.84	4.40	4.80	0.90	10.10	9.0	10.81	"
8	As guaranteed	2.47	3.0	4.0	2.0	1.0	7.0	6.0	10.0	45679
	As found.	2.14	2.60	3.90	3.65	1.25	8.80	7.55	10.81	"
498	As guaranteed	2.47	3.0	3.0	3.0	1.0	7.0	6.0	10.0	45680
	As found.	2.62	3.14	3.00	2.45	1.45	7.50	6.05	9.90	"
71	As guaranteed	.....	2.0	.....	.....	.....	7.0	.....	4.0	45681
	As found.	2.66	3.06	.....	.....	.....	7.30	.....	4.88	"
134	As guaranteed	0.82	1.0	1.0	3.0	1.0	8.0	7.0	1.0	45682
	As found.	0.83	1.00	6.25	1.40	1.35	8.00	7.65	1.62	"
(132)	As guaranteed	1.22	1.5	4.0	3.0	1.0	8.0	7.0	2.0	45683
	As found.	1.95	2.37	7.05	1.95	1.60	10.06	9.00	5.05	"
557	As guaranteed	.....	.....	.....	12.8	.....	.....	.....	.....	45684
	As found.	.....	.....	.....	14.88	1.12	16.00	14.88	.....	"
34	As guaranteed	.....	2.0	.....	.....	2.0	7.0	5.0	4.0	45685
	As found.	1.79	2.16	5.95	1.35	0.95	8.25	7.30	4.28	"
15	As guaranteed	2.0	2.50	6.0	2.0	1.0	9.0	8.0	3.0	45686
	As found.	2.0	2.53	6.30	2.80	2.00	11.10	9.10	3.43	"
16	As guaranteed	1.0	1.25	6.0	2.0	1.0	9.0	8.0	2.0	45687
	As found.	1.44	1.23	7.05	2.35	1.75	11.15	9.40	2.58	"
14	As guaranteed	2.06	2.5	6.0	2.0	1.0	9.0	8.0	1.5	45688
	As found.	1.86	2.25	6.00	2.60	3.35	11.95	8.60	2.16	"
452	As guaranteed	.....	2.0	.....	.....	.....	7.0	.....	2.0	45689
	As found.	1.62	1.97	.....	.....	.....	11.2	.....	2.35	"

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF QUEBEC								
1912.								
April 16	Fertilizer.	37433	F. C. Marquis, Rue Gayard, Quebec.			C. Marquis.		Not registered.
" 18	"	37434	N. Vezina, Limo- lou.			Anglo. Can. Chem. Co., St. John, N. B.		
" 19	"	37435	P. T. Legare, Que- bec			Michigan Carbon Works.		
" 19	"	37436	"			"		
" 19	"	37437	"			T. F. Higginson, Buckingham.		
" 19	"	37438	"			"		
" 19	"	37439	"			"		
" 19	"	37440	"			"		
" 19	"	37441	"			"	Michigan Carbon.	
" 19	"	37442	"			"	"	
" 20	"	37443	Eugene Julien, St. Malo, Quebec.			Nitrate Agency Co., New York	Mfrs.	
" 20	"	37444	"			"	"	
" 20	"	37445	"			Nitrate Agency Co., New York	"	
" 20	"	37446	"			Am. Agr. Chem. Co., Buffalo.	"	
" 20	"	37447	"			"	"	
" 20	"	37448	"			Leeds Phosphate Wks., England	Mfrs.	
" 26	"	37449	Geo. Tanguay, Que- bec.			Vendor.		Capital.
" 26	"	37450	"			"		Jupiter.
" 26	"	37451	"			"		Phoenix.
" 26	"	37452	"			"		Monarch.
" 26	"	37453	"			"		Union.

SESSIONAL PAPER No. 14
FERTILIZERS AS SOLD.

Results of Analysis.

Registration Number.	Analysis of Sample.	Nitrogen p.c.		Phosphoric Acid p.c.					No. of Sample.	Remarks and Opinion of the Chief Analyst.	
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.			Potash.
11	As guaranteed									37433	Not a fertilizer.
	As found	5.00	6.07	0.50		3.25	16.55	13.30			
11	As guaranteed									37434	Meets guarantee.
	As found						15.0		20.95		
212	As guaranteed		2.0				8.0		10.0	37435	
	As found	1.54	1.87	7.80	2.20	1.80	11.80	10.0	10.35		
207	As guaranteed	1.65	2.0				9.0	8.0	4.0	37436	
	As found	1.78	2.16	6.95	2.85	1.60	11.30	9.70	4.32		
83	As guaranteed		2.0				7.0		3.0	37437	Low manganese in a fertilizer excess phosphoric acid.
	As found	0.20	0.24				10.65		3.16		
84	As guaranteed		4.0				9.0		5.0	37438	Meets guarantee.
	As found	3.95	4.80				11.90		5.29		
337	As guaranteed			7.0						37439	
	As found			7.05							
86	As guaranteed		2.0				6.0		2.0	37440	
	As found	2.12	2.53			3.85	10.10	6.25	2.62		
(81)	As guaranteed							11.5		37441	
	As found					1.00	11.9	10.9			
206	As guaranteed		2.0				8.0		4.0	37442	
	As found	1.90	2.31	6.95	2.80	2.15	11.90	9.75	4.51		
255	As guaranteed	15.0	18.0							37443	
	As found	15.68	19.04								
258	As guaranteed								18.0	37444	
	As found								18.30		
257	As guaranteed								50.0	37445	
	As found								51.15		
335	As guaranteed	0.82	1.0	4.0	2.0	1.0	7.0	6.0	6.0	37446	
	As found	0.77	0.94	8.55	0.25	2.85	11.55	8.70	5.88		
226	As guaranteed	2.06	2.3	6.0	2.0	1.0	9.0	8.0	3.0	37447	
	As found	2.25	2.73	7.80	1.25	2.80	11.85	9.05	3.92		
(253)	As guaranteed						18.0			37448	
	As found						21.35				
511	As guaranteed	4.0	5.0					8.0	6.0	37449	
	As found	4.51	5.47			1.20	11.40	10.20	6.19		
510	As guaranteed	2.06	2.50					8.0	5.0	37450	
	As found	2.13	2.58			1.10	12.85	11.75	6.18		
548	As guaranteed	2.47	3.0		6.0		6.0	7.0		37451	
	As found	3.07	3.73			0.45	9.70	9.25	7.96		
508	As guaranteed	1.0	1.22					9.0	8.0	37452	
	As found	1.25	1.52			1.25	13.80	12.55	8.09		
507	As guaranteed	2.47	3.0					8.0	3.5	37453	
	As found	2.93	3.55			1.10	11.55	10.45	3.68		

F. X. W. E. BÉLAND, INSPECTOR

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

DISTRICT OF QUEBEC—

1912.								
April 26	Fertilizer.	37454	Geo. Tanguay, Quebec.			Vendor.....		Nestor.....
" 26	"	37455	" "			"		Celtic
" 26	"	37456	" "			"		"
" 24	"	37457	J. B. Reneaud & Cie, Quebec.			Windsor Plaster Co., Windsor, N.S.	Mfrs.	Windsor Plaster Co., Windsor, N.S.
" 24	"	37458	"			"	"	"
" 24	"	37459	"			British Oil and Cake Mills Co.	"	"
" 24	"	37460	"			"	"	"
" 24	"	37461	"			"	"	"

DISTRICT OF ST. HYACINTHE—

April 15	Tobacco Fertilizer.	39101	A. Desautels, Farnham.	3 jars		Lesage Packing and Fert. Co., Montreal.		
" 15	Thomas Phosphate.	39102	"	3 "		"		
" 15	Southern Guano.	39103	A. E. D Artois & fils, Farnham.	3 "		The Nova Scotia Fert. Co., Montreal.		
" 15	Acid Phosphate.	39104	"	3 "		"		
" 15	Potato Grower	39105	"	3 "		"		
" 15	Potato Manure.	39106	Berthiaume & Lanoue, Farnham	3 "		Prov. Chem. and Fert. Co., St. John, N.B.		
" 15	Victor Guano.	39107	"	3 "		"		
" 15	Special Potato Phosphate.	39108	"	3 "		"		
" 15	Grain Phosphate	39109	"	3 "		"		
" 16	Dissolved Phosphate.	39110	C. Payne, W. Shefford road, Granby	3 "		Buffalo Fert. Co., Buffalo, N. Y.		
" 16	Farmers Choice.	39111	" "	3 "		"		
" 16	Bradleys Eclipse Phosphate	39112	" "	3 "		The Am. Agr. Chem. Co., New York.		
" 16	Bradleys X L Superphosphate of Lime	39113	" "	3 "		"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	RESULTS OF ANALYSIS.								Remarks and Opinion of the Chief Analyst.
		Nitrogen p. c.		Phosphoric Acid p. c.						
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.	Potash.	

Concluded.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	No. of Sample.		
509	As guaranteed	1 65	2 0	.....	.....	.....	8 0	2 5	37454		
	As found.	2 18	2 64	.....	.....	1 05	11 35	10 30	3 05	Meets guar	
512	As guaranteed	.....	.....	.....	.....	.....	.....	10 0	5 0	37455	antee.
	As found.	.....	.....	.....	.....	0 60	12 45	11 85	5 71	.....	"
547	As guaranteed	.....	.....	.....	14 0	.....	.....	.....	.....	37456	"
	As found.	.....	.....	.....	16 44	0 66	17 10	16 44	.....	.....	"
.....	As guaranteed	.....	.....	.....	.....	.....	.....	.....	.....	37457	Plaster of
	As found.	.....	.....	.....	.....	.....	.....	.....	.....	.....	Paris, con
											tains no fer
											tilizer in-
											gradient.
302	As guaranteed	.....	.....	.....	15 4	3 85	19 25	.....	.....	37458	
	As found.	.....	.....	.....	18 60	1 85	20 45	18 60	.....	.....	Meets guar
299	As guaranteed	.....	.....	.....	.....	.....	.....	48 0	.....	.....	antee.
	As found.	.....	.....	.....	.....	.....	.....	47 90	37459	.....	"
443	As guaranteed	.....	.....	.....	.....	.....	.....	50 0	.....	.....	"
	As found.	.....	.....	.....	.....	.....	.....	49 72	37460	.....	"
273	As guaranteed	15 0	18 0	.....	.....	.....	.....	.....	.....	.....	"
	As found.	14 74	17 90	.....	.....	.....	.....	.....	.....	37461	"

J. C. ROULEAU, INSPECTOR.

418	As guaranteed	1 65	2 0	.....	5 0	1 0	6 0	5 0	5 0	.....	Meets guar
	As found.	1 68	2 04	.....	.....	0 95	8 20	7 25	7 97	39101	antee.
338	As guaranteed	.....	.....	.....	.....	2 0	14 0	12 0	.....	.....	"
	As found.	.....	.....	.....	13 84	2 91	16 75	13 84	.....	39102	"
46	As guaranteed	.....	2 0	.....	.....	2 0	9 0	7 0	2 5	.....	"
	As found.	1 56	1 95	.....	.....	1 40	9 50	8 10	2 63	39103	"
328	As guaranteed	.....	.....	.....	14 0	2 0	.....	14 0	.....	.....	"
	As found.	.....	.....	.....	.....	9 8	21 0	20 20	.....	39104	"
452	As guaranteed	.....	2 0	.....	.....	.....	7 0	.....	2 0	.....	"
	As found.	2 42	2 94	.....	.....	.....	10 0	.....	2 51	39105	"
70	As guaranteed	.....	2 0	.....	.....	.....	7 0	.....	1 0	.....	"
	As found.	1 86	2 24	.....	.....	.....	9 90	.....	5 89	39106	"
68	As guaranteed	.....	2 0	.....	.....	.....	7 0	.....	2 5	39107	"
	As found.	1 62	1 96	.....	.....	.....	9 80	.....	3 48	.....	"
63	As guaranteed	.....	2 5	.....	.....	.....	8 0	.....	6 0	39108	"
	As found.	2 55	3 10	.....	.....	.....	10 85	.....	7 14	.....	"
67	As guaranteed	.....	.....	.....	.....	.....	12 0	.....	2 0	39109	"
	As found.	.....	.....	.....	.....	.....	12 10	.....	2 84	.....	"
49	As guaranteed	.....	.....	.....	.....	.....	.....	14 0	.....	39110	"
	As found.	.....	.....	.....	.....	1 55	16 90	15 35	.....	.....	"
55	As guaranteed	.....	1 0	.....	.....	.....	.....	8 0	5 0	39111	"
	As found.	0 81	0 99	.....	.....	1 55	10 90	9 35	6 10	.....	"
4	As guaranteed	1 03	1 25	6 0	2 0	1 0	9 0	8 0	2 0	39112	"
	As found.	1 13	1 38	4 70	5 10	1 20	11 00	9 80	4 68	.....	"
2	As guaranteed	2 0	2 5	6 0	2 0	1 0	9 0	8 0	1 5	39113	"
	As found.	2 16	2 63	4 65	4 50	1 30	10 45	9 15	2 00	.....	"

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF ST HYACINTHE—								
1912.								
April 17	Victor Complete Fertilizer.	39114	Whitehead & Co., Waterloo, P.Q.	3 jars.		Capelton Chem. & Fert. Co., Buckingham.		
17	Capelton Fertilizer.	39115	" " "	3		" " "		
17	Reliance.	39116	" " "	3		" " "		
" 17	Pacific Potato Special.	39117	Taylor & Poirier, Waterloo, P.Q.	3		The Am. Agr. Chem. Co., New York.		
" 17	Pacific Guano.	39118	" " "	3		" " "		
" 18	Sterling Phosphate.	39119	Vaughan Bros., Magog.	3		Lowell Fert. Co., Boston.		No reg. number on bag.
" 18	Potato Manure	39120	" " "	3		" " "		"
" 18	Quebec Special	39121	B. E. Goyette, Magog.	3		Lesage Packing & Fert. Co., Montreal.		
" 18	Corn and Vegetable.	39122	" " "	3		" " "		
" 18	Royal Potato Manure.	39123	" " "	3		" " "		
" 18	Fish Guano.	39124	A. E. Rolston, Knowlton.	3		Buffalo Fert. Co., Buffalo, N. Y.		
" 18	Bradley's Potato Fertilizer.	39125	J. V. Lytle, Knowlton.	3		The Am. Agr. Chem. Co., New York		
" 18	Alkaline Bone with Potash	39126	" " "	3		" " "		
30	Bowker's Sure Crop Phosphate.	39127	W. Taylor, Windsor Mills Road, Richmond, P.Q.	3		Bowker Fert. Co., Boston.		
30	Bowker's Potato and Vegetable Phosphate.	39128	" " "	3		" " "		
30	Corn Phosphate.	39129	" " "	3		" " "		
" 30	Superphosphate with Potash.	39130	" " "	3		" " "		
30	Vermont Phosphate.	39132	" " "	3		" " "		
May 1	Royal Canadian.	39133	D. Brunet, Roug, St-Germain, Roxton Falls.	3		Capelton Chem. & Fert. Co., Buckingham.		
" 1	Thomas Phosphate.	39134	" " "	3		The Cross Fert. Co., Ltd., Sydney, N. S.		
" 1	Phosphate of Lime 39	39135	J. Baubertin, Roug, St-Germain, Roxton Falls.	3		Leeds Phosphate Works, Leeds, Eng.		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.								Remarks and Opinion of the Chief Analyst.	
		Nitrogen p.c.		Phosphoric Acid p.c.							
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.	Potash.		
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	No. of Sample.	
83	As guaranteed As found	2 13 2 59	2 0				7 0 10 95		3 0 3 30	39114	Meets guar- antee.
337	As guaranteed As found			0 70			12 05	7 0		39115	
86	As guaranteed As found	2 9 2 95	3 58			1 95	10 70	6 6 8 75	2 0 4 47	39116	
15	As guaranteed As found	2 06 2 15	2 50 2 61	6 0 7 10	2 0 1 80	1 0 0 85	9 0 9 75	8 0 8 90	3 0 3 38	39117	
14	As guaranteed As found	2 06 1 82	2 50 2 21	6 0 5 00	2 0 1 70	1 0 1 80	9 0 11 50	8 0 9 70	1 5 2 12	39118	
(372)	As guaranteed As found	0 82 1 83	1 0 2 23	1 0 6 16	1 0 3 15	1 0 1 00	9 0 10 35	8 0 9 35	4 0 5 43	39119	
(460)	As guaranteed As found	1 61 1 06	2 0 1 23	4 0 6 80	3 0 3 15	1 0 2 00	8 0 11 95	7 0 9 95	1 0 1 96	39120	
331	As guaranteed As found	1 0 0 91	1 25 1 11	5 0 6 25	1 0 0 05	0 65	6 0 6 95	3 0 6 30	3 0 3 63	39121	
117	As guaranteed As found	1 65 1 50	2 0 1 82		5 0 7 15	1 0 0 30	6 0 7 55	5 0 7 15	5 0 5 62	39122	
149	As guaranteed As found	2 47 2 44	3 0 2 92		5 0 1 30	1 0 8 50	6 0 7 20	5 0 11 66	10 0 11 66	39123	
53	As guaranteed As found	0 90 1 09	1 0 1 09			2 15	13 00	10 85	2 0 2 53	39124	
3	As guaranteed As found	2 06 1 92	2 50 2 33	6 0 8 30	2 0 3 50	1 0 1 40	9 00 13 20	8 0 11 80	3 0 2 63	39125	
23	As guaranteed As found			9 0 8 70	2 0 1 85	1 0 1 90	12 0 12 45	11 0 10 55	2 0 2 05	39126	
97	As guaranteed As found	0 82 0 99	1 0 1 16	6 0 6 70	2 0 2 75	1 0 1 80	9 0 11 25	8 0 9 45	2 0 2 18	39127	
92	As guaranteed As found	1 65 1 82	2 0 2 21	6 0 9 0	2 0 3 05	1 0 2 05	9 0 11 10	8 0 12 05	2 0 2 54	39128	
93	As guaranteed As found	1 65 1 71	2 0 2 08	6 0 7 50	2 0 2 15	1 0 2 25	9 0 11 90	8 0 9 65	2 0 3 03	39129	
90	As guaranteed As found			6 0 9 25	4 0 3 15	1 0 2 0	11 0 14 40	10 0 12 40	2 0 2 78	39130	
91	As guaranteed As found	2 47 2 61	3 0 3 17	6 0 7 0	2 0 3 10	1 0 1 55	9 0 11 65	8 0 10 10	4 0 3 98	39132	
84	As guaranteed As found	4 0 3 90	4 0 4 74				9 0 11 65	5 6 9 60	5 6 4 75	39133	
501	As guaranteed As found				13 6 15 20	0 65				39131	
253	As guaranteed As found						18 0 20 65			39135	

Continued.

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

DISTRICT OF ST. HYACINTHE—

1912.								
May	1 Sterling Phosphate.	39136	McGrail & Massé, Roxton Falls.	3 jars.		Swift's Lowell Fert. Co., Boston.		
"	1 Bone Fertilizer	39137	"	3 "		"		No reg. number
"	2 Jupiter.	39138	J. E. Beliveau, St. Leonard Jct.	3 "		Geo. Tanguay, Quebec.		Qualité autorisée No. 1.
"	3 Complete Fertilizer.	39139	P. T. Legare, Victoriaville.	3 "		Mich. Carbon Works, Buffalo		
"	3 Fruit and Vine	39140	"	3 "		"		
"	3 Homestead Dissolved Lime.	39141	P. T. Legare, Victoriaville.	3 "		"		
"	3 Potash Bone.	39142	F. Mahew, Arthabaville.	3 "		Bowker Fert. Co., Boston.		
"	6 Virginia Tobacco.	39143	P. T. Legare, St. Hyacinthe.	3 "		Michigan Carbon Wks., Buffalo.		

DISTRICT OF MONTREAL—

April	1 Early B...	50801	Dupuy and Ferguson, Jac. C. Square, Montreal	3 "				
"	2 Union, Potato and Tobacco.	50802	Wm Cooper & Co., 38 St. James St., Montreal.	3 "		Lesage Packing and Fert. Co., Ltd.		
"	2 Crocker's New General Crop	50803	Lepailleur & Frere, Lachine, P.Q.	3 "				Tags were mislaid and reg. No. did not appear on bags.
"	25 Crocker's Complete Manure	50804	"	3 "				"
"	26 Victor...	50805	O. Goulet & fils, St Jacques.	3 "		Capelton Chem. and Fert. Co.		
"	26 Victor Guano	50806	A. Melanson, St. Jacques.	3 "		Provincial Chem. au Fert. Co., Ltd.		
"	26 Victor.....	50807	E. Laurion, L'Esperance, P.Q.	3 "		Capelton Chem. and Fert. Co.		
May	7 Montreal Special Potato Manure.	50808	Montreal Abattoir Ltd., Montreal.	3 "		Vendors.		
"	7 Top Producer	50809	"	3 "		"		
"	7 Early Truck and Vegetable Grower	50810	"	3 "		"		
"	7 Gilt Edge Potato and Tobacco Manure	50811	"	3 "		"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	RESULTS OF ANALYSIS.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid p. c.						
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.			Potash.

Concluded.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
372	As guaranteed	0.82	1.0	1.0	4.0	1.0	3.0	8.0	4.0	39136	Meets guarantee.
	As found.	0.92	1.12	7.50	2.70	2.0	12.20	10.20	4.11		
113	As guaranteed	1.61	2.0	4.0	4.0	1.0	9.0	8.0	3.0	39137	"
	As found.	1.60	1.95	6.50	2.85	1.05	10.40	9.35	3.47		
510	As guaranteed	2.06	2.5					8.0	5.0	39138	"
	As found.	2.31	2.87	7.06	2.60	2.00	11.60	9.60	6.18		
206	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	39139	"
	As found.	1.77	2.15	8.05	1.90	1.15	11.40	9.95	4.59		
212	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	10.0	39140	"
	As found.	1.80	2.19	6.60	2.95	1.95	11.40	9.55	19.52		
202	As guaranteed			10.0	2.0	1.0	13.0	12.0		39141	"
	As found.			10.00	3.65	2.25	16.10	13.25			
98	As guaranteed	0.82	1.0	4.0	2.0	1.0	7.0	6.0	2.0	39142	"
	As found.	0.93	1.13	6.25	2.40	1.25	9.90	8.65	2.55		
207	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	39143	"
	As found.	1.69	2.01	8.95	1.05	1.95	11.95	10.00	6.33		

J. J. COSTIGAN, INSPECTOR.

259	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	4.0	50801	Meets guarantee.
	As found.	0.99	1.20	7.00	3.30	1.90	12.20	10.30	5.33		
162	As guaranteed	1.65	2.0		7.0	1.0	8.0		5.0	50802	"
	As found.	1.26	1.53			3.0	9.65	6.65	4.09		
301	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	1.0	50803	"
	As found.	1.13	1.37	6.95	1.20	3.15	11.30	8.15	1.64		
193	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	4.0	50804	"
	As found.	1.11	1.38	7.30	2.50	2.60	12.40	9.80	3.84		
83	As guaranteed		2.0				7.0		3.0	50805	"
	As found.	1.68	2.04				11.20		3.34		
68	As guaranteed		2.0				7.0		2.5	50806	"
	As found.	1.78	2.16				10.9		4.26		
83	As guaranteed		2.0				7.0		3.0	50807	"
	As found.	1.71	2.07				11.80		3.51		
556	As guaranteed		1.0					8.0	5.0	50808	"
	As found.	1.14	1.38		10.10	1.55	11.65	10.10	4.71		
554	As guaranteed		1.25					10.0		50809	"
	As found.	1.16	1.40			3.60	14.15	10.55			
553	As guaranteed		4.0					6.0	8.0	50810	"
	As found.	3.14	3.81			1.50	10.45	8.95	8.57		
555	As guaranteed		3.0					7.0	10.0	50811	"
	As found.	2.70	3.28			1.35	10.30	8.95	10.26		

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

DISTRICT OF MONTREAL—

1912.								
May 11	Celery and Potato.	50812	Thos. Cogland, Herdman, P.Q.	3 jars.		Bowker Fert. Co.		
" 11	Fish Guano.	50813	" " "	3 "		" "		
" 11	Ideal Wheat and Corn.	50814	" " "	3 "		" "		
" 11	Farmers Choice.	50815	" " "	3 "		" "		
" 14	Alkaline Bone with Potash.	50816	Wm. Anderson, Athelstan, P.Q.	3 "				
" 14	Bradley's	50817	" " "	3 "		Am. Agr. Chem. Co.		
" 14	Milsons Special Bean and Grain.	50818	" " "	5 "				
" 17	Complete.	50819	Moise Dubois, St. Thérèse De Blainville, P.Q.	3 "		Mich. Carlon Works.		
" 17	Garden and Vegetable.	50820	" " "	3 "		" "		
" 17	Bowker's Superphosphate with Potash.	50821	Alex. MacCubbin, St. Thérèse De Blainville, P.Q.	3 "		Bowker Fert. Co.		

DISTRICT OF OTTAWA—

April 16	Capelton No. 1	49085	The Capelton Chem. Fert. Co., Buckingham.	3 jars.	Nil.	Vendors		
" 16	Royal Canadian.	49086	" " "	3 "	" "	" "		
" 16	Potato Special	49087	" " "	3 "	" "	" "		
" 16	Eureka Tobacco Special.	49088	" " "	3 "	" "	" "		
" 16	Victor.	49089	" " "	3 "	" "	" "		
" 16	Reliance	49090	" " "	3 "	" "	" "		
" 16	Bradley's New Method.	49091	H. Brown & Sons, Brockville.	3 "	" "	Am. Agr. Chem. Co., New York		
" 16	Bradley's B.D. Sea Fowl Guano.	49092	" " "	3 "	" "	" "		
" 16	Sure Growth . .	49093	Booth Bros., Brockville.	3 "	" "	The W. A. Freeman, Co., Ltd., Hamilton.		
" 16	Pure Bone Meal.	49094	" " "	3 "	" "	" "		
" 16	Potato Manure	49095	" " "	3 "	" "	" "		
" 16	Canadian Manure.	49096	" " "	3 "	" "	" "		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample	Number of Sample.	RESULTS OF ANALYSIS.							Remarks and Opinion of the Chief Analyst.
			Nitrogen p. c.		Pho-sphoric Acid p. c.					
			Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in Water.	Re-ported or Citrate Soluble.	Insoluble.	Total.	Total Available.		Potash.
<i>Concluded.</i>										
			p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
57	As guaranteed	...	2.0					8.0	10.0	50812
	As found.	1.01	1.22			2.15	11.95	9.50	8.95	Meets guar-
53	As guaranteed	...	1.0					9.0	12.0	50813
	As found.	1.02	1.24			2.05	12.00	9.95	3.70	"
56	As guaranteed	...	2.0					9.5	5.0	
	As found.	1.68	2.04			2.15	13.60	11.45	6.81	50814
55	As guaranteed	...	1.0					8.0	5.0	
	As found.	0.99	1.20			2.25	11.55	9.30	5.90	50815
378	As guaranteed	...		9.0	2.0	1.0	12.0	11.0	2.0	
	As found.			9.80	1.20	1.65	15.65	14.0	3.09	50816
259	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	4.0	
	As found.	0.89	1.09	7.00	2.35	1.40	10.75	9.35	5.31	50817
263	As guaranteed	...		8.00	2.0	1.0	11.0	10.0	8.0	
	As found.			9.40	1.35	1.50	12.25	10.75	8.56	50818
29	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	
	As found.	1.84	2.24	8.50	1.20	2.55	12.25	9.70	4.40	50819
210	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	
	As found.	1.61	1.96	7.75	1.05	2.50	11.30	8.80	7.36	50820
492	As guaranteed	...		6.0	1.0	1.0	11.0	10.0	2.0	
	As found.			8.20	4.30	2.60	15.10	12.50	2.10	50821
A. A. RICKEY, INSPECTOR.										
81	As guaranteed	...						16.0		49085
	As found.					6.35	16.00	9.65		Meets guar-
84	As guaranteed	...	4.0					9.0	5.0	49086
	As found.	3.88	4.71					11.25	6.64	
336	As guaranteed	...	2.0					6.0	8.0	49087
	As found.	2.40	2.91			3.65	10.40	6.45	8.03	
85	As guaranteed	...	3.0					5.0	4.0	49088
	As found.	2.67	3.25			3.50	8.65	5.15	5.0	
83	As guaranteed	...	2.0					7.0	3.0	49089
	As found.	1.74	2.11			3.40	10.50	7.10	3.72	
86	As guaranteed	...	2.0					6.0	2.0	49090
	As found.	2.04	2.48					9.55	3.61	
379	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	2.0	49091
	As found.	1.12	1.36	4.90	4.50	2.25	11.65	9.40	2.68	
88	As guaranteed	2.0	2.5	6.0	2.0	1.0	9.0	8.0	1.5	49092
	As found.	2.31	2.81	7.50	1.75	2.55	11.80	9.25	2.39	
144	As guaranteed	2.89	3.5	5.0	3.0	0.25	8.25	8.0	3.0	49093
	As found.	3.69	4.48	4.0	5.15	3.80	12.95	9.15	3.44	
146	As guaranteed	2.47	3.0		20.0	1.0	21.0	20.0		49094
	As found.	4.27	5.19		11.04	10.09	21.15	11.04		
145	As guaranteed	2.47	3.0	5.0	3.0	0.25	8.25	8.0	5.0	49095
	As found.	4.48	5.41	4.60	3.95	3.35	12.90	9.55	6.08	
375	As guaranteed	2.47		5.5	2.5	0.50	8.5	8.0	1.5	49096
	As found.	1.92	2.33	6.55	4.50	3.75	13.80	10.05	2.81	

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

DISTRICT OF OTTAWA—

1912.								
April 16	Read's Standard Superphosphate.	49097	A. E. Cameron, Brockville.	3 jars.	Nil.	Am. Agr. Chem. Co., N. Y.		
" 16	Read's Practical Potato Special.	49098	"	3 "	"	"		
" 16	Read's High Grade Special.	49099	"	3 "	"	"		
" 16	Read's Farmers Friend Superphosphate.	49100	"	3 "	"	"		
" 17	Corn Special.	50190	Capelton Chem. & Fert Co., Buckingham.	3 "	"	Vendors		
" 17	Capelton	50191	"	3 "	"	"		
" 19	Lawn	50192	"	3 "	"	"		
" 10	Lawn Fertilizer.	50193	Graham Bros., Ottawa.	3 "	"	The W. A. Freeman Co., Ltd., Hamilton.		No. reg. number on bags.
" 19	Bradley's Complete Manure	50194	"	3 "	"	Am. Agr. Chem. Co.		
" 19	Celery & Early Vegetable Manure.	50195	K. McDonald & Sons, Ottawa.	3 "	"	W. A. Freeman Co., Ltd. Hamilton.		

DISTRICT OF TORONTO—

April 15	Harab No. 5 A "Orchard" Brand.	49401	The Harris Abattoir Co., Ltd., Toronto.	4 lbs.	15	Vendors		
" 15	Harab No. 4 A "Berry" Brand.	49402	"	4 "	15	"		
" 15	Harab No. 13 A Beet (Sugar).	49403	"	4 "	15	"		
" 15	Harab A No. 7, Potash Compound.	49404	"	4 "	15	"		
" 16	Harab A No. 6, "Cereal" Brand.	49405	"	4 "	15	"		
" 16	Harab A No. 12, Beans Brand.	49406	"	4 "	15	"		

SESSIONAL PAPER No. 14
FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	RESULTS OF ANALYSIS.								Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.			Phosphoric Acid p.c.					
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.		No. of Sample.

Concluded.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
383	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	4.0	49097
	As found.	0.80	0.97	6.70	2.70	1.95	11.35	9.40	4.11	Meets guarantee.
382	As guaranteed	0.82	1.0	3.0	1.0	1.0	5.0	4.0	5.0	49098
	As found.	1.04	1.27	3.5	1.6	1.45	6.55	5.10	7.74	
232	As guaranteed			10.0	2.0	1.0	13.0	12.0	5.0	49099
	As found.			11.10	1.13	0.92	13.15	12.23	6.16	
384	As guaranteed	2.0	2.5	6.0	2.0	1.0	9.0	8.0	3.0	49100
	As found.	2.10	2.55	6.15	2.80	2.05	11.0	8.95	3.14	
82	As guaranteed		1.0					7.0	3.0	50190
	As found.	1.15	1.77				11.15		4.03	
337	As guaranteed							7.0		50191
	As found.					4.35	11.75	7.40		
484	As guaranteed		2.0					6.0	8.0	50192
	As found.	1.81	2.20			3.30	10.05	6.75	8.68	
(157)	As guaranteed		3.0					9.0	4.0	50193
	As found.	3.23	3.92				10.85		6.29	
394	As guaranteed	3.0	4.0	6.0	2.0	1.0	9.0	8.0	7.0	50194
	As found.	2.14	2.69	9.75	2.55	0.50	12.80	12.30	8.56	
184	As guaranteed	4.12	5.0	5.5	3.5	0.25	9.25	9.0	5.0	50195
	As found.	4.91	5.96	4.05	3.80	2.20	10.05	7.85	7.93	

H. J. DAGGER, INSPECTOR.

475	As guaranteed	2.0					4.0	5.0	49401	
	As found.	2.32	2.81				7.59	6.89	Meets guarantee.	
474	As guaranteed	2.0					7.0	5.0	49402	
	As found.	1.75	2.13				9.30	5.56		
481	As guaranteed	3.0					7.0	8.0	49403	
	As found.	2.39	2.91				7.65	8.00		
476	As guaranteed	2.0					7.0	8.0	49404	
	As found.	1.83	2.23				8.35	7.60		
201	As guaranteed	2.0	2.4				12.5	9.0	3.0	49405
	As found.	3.71	4.50			3.63	11.26	7.63	5.15	
480	As guaranteed	2.0					8.0	8.0	49406	
	As found.	1.97	2.39				10.65	10.80		

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

DISTRICT OF TORONTO—

1912.								
April 16	Harab A No. 9, Blood and Beef.	49407	The Harris Abattoir Co., Ltd., Toronto.	4 lbs.	15	Vendors.		
" 16	Harab A No. 1, Potash Special.	49408	"	4 "	15	"		
" 16	Harab A, General Garden.	49409	"	4 "	15	"		
" 16	Harab A No. 15, "Corn" Brand.	49410	"	4 "	15	"		
" 16	Davies' Potato Special.	49411	Wm. Davies Co., Ltd., Toronto.	4 "	15	"		
" 16	Davies' General Crop.	49412	"	4 "	15	"		
" 16	Davies' Pure Bone Meal.	49413	"	4 "	15	"		
" 16	Davies' Blood Meal.	49411	"	4 "	15	"		
" 17	Davies' General Veg. and Market Garden.	49415	"	4 "	15	"		
" 17	Davies Tobacco Grower.	49416	"	4 "	15	"		
" 17	Davies Sugar Beet Manure.	49417	"	4 "	15	"		
" 17	Davies Greenhouse Special.	49418	"	4 "	15	"		
" 19	Davies Soluble Bone and Potash.	49419	"	4 "	15	"		
" 19	Davies Complete Manure for Roots	49420	"	4 "	15	"		
" 19	Davies Lawn Dressing.	49421	"	4 "	15	"		
" 19	Davies Cereal Fertilizer.	49422	"	4 "	15	"		
" 19	H. Brand.	49423	Wm. Harris & Co., Toronto.	4 "	15	"		Sample taken from quantity in storage room.
" 22	Sure Growth Manure.	49424	Wm. A. Freeman Co., Ltd., Hamilton.	4 "	15	"		
" 22	Potato Manure	49425	"	4 "	15	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	RESULTS OF ANALYSIS.							Remarks and Opinion of the Chief Analyst.		
		Nitrogen, etc.			Phosphoric Acid, etc.						
		Total including that of Nitric Acid or ammonia, if present.	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.			
		P. C.	P. C.	P. C.	P. C.	P. C.	P. C.	P. C.	No. of Sample.		
477	As guaranteed	7.0	...	...	...	...	6.0	...	4907	Low in nitrogen but phosphoric acid compensates.	
	As found	5.28	6.41	...	...	...	5.50	...			
471	As guaranteed	3.0	...	...	...	...	6.0	8.0	4908	Meets guarantee.	
	As found	2.24	2.72	...	...	...	8.50	8.96			
472	As guaranteed	3.0	...	...	...	...	7.0	3.0	4909		
	As found	3.20	3.89	...	...	...	8.70	3.48			
483	As guaranteed	2.0	...	...	...	...	9.0	4.0	4910		
	As found	2.35	2.86	...	...	...	19.50	3.90			
360	As guaranteed	3.3	4.0	1.0	5.0	2.0	8.0	6.6	8.0	4911	
	As found	3.67	4.45	3.10	5.30	1.20	9.60	8.40	8.22		
219	As guaranteed	2.47	3.0	...	...	...	10.0	8.0	2.0	4912	
	As found	2.31	2.81	...	...	1.30	11.85	10.55	1.87		
244	As guaranteed	3.29	4.0	...	...	...	20.0	...	...	4913	
	As found	3.08	3.74	...	...	...	25.40	...	...
371	As guaranteed	11.51	14.0	...	...	...	...	...	...	4914	
	As found	10.72	13.02	...	...	...	...	...	...
362	As guaranteed	4.11	5.0	1.0	6.0	2.0	9.0	7.0	5.0	4915	
	As found	5.02	6.20	1.65	12.28	4.10	16.07	13.93	4.87		
368	As guaranteed	4.11	5.0	1.0	6.0	2.0	9.0	7.0	6.0	4916	
	As found	3.77	4.58	1.00	11.10	1.60	14.30	12.70	3.78		
370	As guaranteed	3.3	4.0	1.0	5.0	2.0	8.0	6.0	8.0	4917	
	As found	4.51	5.48	1.25	7.70	1.90	10.85	8.95	9.98		
367	As guaranteed	4.11	5.0	5.0	...	0.5	5.5	5.0	5.0	4918	
	As found	3.87	4.70	2.50	4.86	1.89	9.25	7.36	4.79		
369	As guaranteed	1.64	2.0	3.0	5.0	2.0	10.0	8.0	5.0	4919	
	As found	1.81	2.20	3.65	4.85	2.05	10.55	8.50	4.60		
365	As guaranteed	2.88	3.5	3.0	5.0	2.0	10.0	8.0	6.0	4920	
	As found	2.77	3.36	2.50	5.30	3.05	10.85	7.80	6.60		
361	As guaranteed	3.3	4.0	1.0	5.0	2.0	8.0	6.0	3.0	4921	
	As found	5.04	7.33	1.20	5.30	3.10	9.60	6.50	4.56		
364	As guaranteed	2.06	2.5	6.0	3.0	2.0	11.0	9.0	2.0	4922	
	As found	1.76	2.13	3.30	5.50	5.35	11.15	8.80	1.91		
(285)	As guaranteed	7.15	8.69	0.67	3.90	2.74	7.31	4.57	...	4923	
	As found	6.91	8.40	0.56	8.19	1.75	10.50	8.75	...		
144	As guaranteed	2.89	3.5	5.0	3.0	0.25	8.25	8.0	3.0	4924	
	As found	2.03	2.47	4.55	5.15	3.30	13.00	9.70	4.11		
145	As guaranteed	2.47	3.0	5.0	3.0	0.25	8.25	8.0	5.0	4925	
	As found	2.07	2.51	4.40	4.45	2.80	11.65	8.85	5.13		

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

DISTRICT OF TORONTO—

1912.								
April 22	Lawn Fertilizer.	49426	Wm. A. Freeman Co., Ltd., Hamilton.	4 lbs.	15	Vendors.....		
" 22	Bone and Potash.	49427	" " "	4 "	15	"		
" 23	Bradleys B. D. Sea Foul Guano.	49128	Titterington Bros., St. Catharines.	4 "	15	Am. Agr. Chem. Co., Buffalo		
" 23	Crockers, N. Y., Special Phosphate.	49429	" " "	4 "	15	"		
" 23	Complete Manure for Potatoes and Vegetables.	49430	" " "	4 "	15	"		
" 23	Crockers Best Potash.	49431	Titterington Bros., St. Catharines.	4 "	15	Am. Agr. Chem. Co., Buffalo.		
" 23	Fine Ground Bone.	49432	St. Catharines Cold Storage & Forwarding Co. Ltd. St. Catharines.	4 "	15	Am. Agr. Chem. Co., New York		
" 23	Fine Steamed Bone.	49433	" " "	4 "	15	Wm. Davies Co., Ltd., Toronto.		
" 25	Crockers' Wheat & Corn Fertilizer.	49431	O. J. Smith, Attercliffe Stn.	4 "	15	Am. Agr. Chem. Co., Buffalo, N. Y.		
" 25	Crockers Complete Manure	49435	" " "	4 "	15	"		
" 25	Crockers Practical Potato Fertilizer.	49436	" " "	4 "	15	"		
" 15	Crockers High Grade Special Fertilizer.	49437	" " "	4 "	15	"		
" 25	National Fertilizer No. 1 Brand.	49438	J. W. Emerson, Attercliffe Stn.	4 "	15	The National Land Fruit Packing Co., Montreal.		Noreg. number on bags.
" 25	Farmer's Choice.	49439	B. L. Edgecombe, Dunnville.	4 "	15	Buffalo Fert. Co., Buffalo, N. Y.		
" 25	Celery & Potato Special.	49440	" " "	4 "	15	"		
" 25	Vegetable & Potato.	49441	" " "	4 "	15	"		
" 25	General Favourite.	49442	" " "	4 "	15	"		
" 25	Fish Guano....	49443	" " "	4 "	15	"		
" 25	Ideal Wheat & Corn.	49444	" " "	4 "	15	"		
" 25	Celery & Early Vegetable Manure.	49445	J. E. Bell, Cooksville.	4 "	15	Wm. A. Freeman Co., Ltd. Hamilton.		
" 30	Manure.							

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD

Registration Number.	Analysis of Sample.	RESULTS OF ANALYSIS.								Remarks and Opinion of the Chief Analyst.
		Nitrogen per cent.			Phosphoric Acid, per cent.					
		Total including that of Nitric acid or ammoniac if present.	Total calculated as Ammoniac.	Soluble in water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.	Potash.	
		P. C.	P. C.	P. C.	P. C.	P. C.	P. C.	P. C.	P. C.	
157	As guaranteed	2.47	3.0	5.75	3.5	0.25	9.25	9.0	1.0	1926 Meets guarantee.
	As found	2.39	2.91	6.00	6.19	1.00	13.10	12.10	3.57	
147	As guaranteed	1.85	2.0	5.5	3.5	0.25	9.25	9.0	6.0	1927
	As found	2.12	2.58	5.35	4.35	3.45	13.15	9.70	6.18	
188	As guaranteed	2.06	2.5	6.0	2.0	1.0	9.0	8.0	1.5	1918
	As found	2.15	2.61	6.40	3.95	2.55	12.85	10.35	2.87	
192	As guaranteed			8.0	2.0	1.0	11.0	10.0	8.0	1929
	As found			8.55	1.65	1.15	11.35	13.20	9.10	
394	As guaranteed	3.29	4.0	6.0	2.0	1.0	9.0	8.0	7.0	1930
	As found	2.49	3.03	6.75	3.60	1.90	12.27	10.35	6.96	
194	As guaranteed	65	2.0	6.0	2.0	1.0	9.0	8.0	10.0	1931
	As found	2.20	1.46	6.90	2.65	2.10	11.65	9.75	12.39	
238	As guaranteed	2.47	3.0				22.8			1932
	As found	2.99	3.63				21.10			
396	As guaranteed	4.93	6.0				22.0			1933
	As found	4.93	5.98				22.10			
195	As guaranteed	2.06	2.5	6.0	2.0	1.0	9.0	8.0	1.5	1934
	As found	1.58	1.92	8.10	3.30	1.25	12.65	11.40	4.36	
380	As guaranteed	0.82	1.00	6.0	2.0	1.0	9.0	8.0	4.0	1935
	As found	0.95	1.13	2.65	3.95	1.55	8.07	6.69	8.77	
198	As guaranteed	0.82	1.0	3.0	1.0	1.0	5.0	4.0	8.0	1936
	As found	1.08	1.31	3.70	2.57	1.60	7.65	6.65	8.70	
381	As guaranteed	1.05	2.0	6.0	2.0	1.0	9.0	8.0	4.0	1937
	As found	1.05	1.28	7.45	1.95	1.75	11.15	9.49	5.32	
606	As guaranteed	1.3		3.5					0.5	1938
	As found	1.84	2.24	6.15			8.10		1.22	
55	As guaranteed		1.0					8.0	5.0	1939
	As found	1.18	1.43	5.25	3.85	2.35	11.45	9.10	5.25	
57	As guaranteed		2.0					8.0	10.0	1940
	As found	2.23	2.71			4.70	11.00	9.30	10.04	
58	As guaranteed		3.0					8.0	7.0	1941
	As found	2.22	2.70			1.65	10.80	9.15	9.64	
54	As guaranteed		1.5					8.0	2.5	1942
	As found	1.59	1.86			1.60	10.90	9.30	4.78	
53	As guaranteed		1.0					9.0	2.0	1943
	As found	1.31	1.59			1.65	11.35	9.70	3.32	
56	As guaranteed		2.0					9.0	5.0	1944
	As found	1.84	2.23			1.35	10.85	9.50	5.25	
147	As guaranteed	1.05	2.00	5.50	3.50	0.25	9.25	9.00	6.0	1945
	As found	1.43	1.17	4.80	5.55	1.35	11.70	10.35	6.21	

Continued.

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

DISTRICT OF TORONTO—

1912.								
April 30	Bradley's Potato Fertilizer.	49446	John Cunningham, Cooksville.	4 lbs.	15	Am. Agr. Chem. Co., Buffalo, N. Y.		
May 1	Garden Truck.	49447	A. H. Spera, Stoney Creek.	4 "	15	Buffalo Fert. Co., Buffalo, N. Y.		
" 1	Dissolved Phosphate.	49448	J. F. Galbraith, Stoney Creek.	4 "	15	"		
" 1	High Grade Manure.	49449	W. Clark, Stoney Creek.	4 "	15	"		
" 3	High Grade Potash Compound.	49450	A. Skook, Oakville.	4 "	15	Am. Agr. Chem. Co., Buffalo.		
" 4	High Grade Ground Blood	49500	Geo. Hollis, Shaw st., Toronto.	4 "	15	"		Guaranteed analysis is so indistinct, is not readable.

DISTRICT OF LONDON—

May 7	Farmers Choice.	48253	G. Carter, Son & Co., St. Mary's.	4 jars.	Nil	Buffalo Fert. Co., Buffalo.		
" 7	Wheat and Corn.	48254	"	4 "	"	"		
" 7	Celery and Corn.	48255	"	4 "	"	"		
" 8	Davies Lawn Dressing.	48260	J. T. Eidt, Berlin.	4 "	15	Wm. Davies Co., Toronto.		
" 8	Early Celery and Potato.	48261	I. Holman, Berlin.	4 "	"	Freeman Co., Hamilton.		
" 8	Sure Growth.	48262	"	4 "	20	"		
" 8	Potato Manure.	48263	"	4 "	"	"		

DISTRICT OF WINDSOR—

May 2	Sure Growth.	48229	W. W. Naweeck, Ingersoll.	3 jars.	Nil	W. A. Freeman, Hamilton.		
" 2	Potato Manure	48230	"	3 "	"	"		
" 2	XXX Potato.	48231	Wm. Stone & Sons Co., Ingersoll.	3 "	"	Vendors.		
" 2	Grain & Root	48232	"	3 "	"	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	RESULTS OF ANALYSIS.								Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid p.c.						
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.	Potash.	
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
302	As guaranteed	2.06	2.5	6	2	1	9	8	3	4946
	As found	2.03	2.47	6.50	0.95	3	10.45	7.45	4.24	Meets guar- antee.
59	As guaranteed		4					8	7	4947
	As found	3.19	3.88			1.65	11.10	9.45	6.80	"
49	As guaranteed							14		4948
	As found					1.60	15.25	13.65		"
60	As guaranteed		4					7	10	4949
	As found	3.12	3.79			1.35	11.15	9.80	11.58	"
182	As guaranteed	1.65	2	6	2	1	9	8	10	49450
	As found	1.69	2.05	7.50	0.05	3.15	10.70	7.55	11.04	"
(311)	As guaranteed	9.87	12							9500
	As found	9.66	11.73	0.95	0.75	0.75	2.45	1.70		"

Conclude L.

JNO. TALBOT, ACTING INSPECTOR

55	As guaranteed		1					8	5	48253
	As found	0.87	1.05	5.30	2.45	3.90	11.05	7.75	4.58	Meets guar- antee.
56	As guaranteed		2					9	5	48254
	As found	1.81	2.20	4.60	3.64	2.86	11.10	8.24	3.97	"
57	As guaranteed		2					8	10	48255
	As found	1.11	1.34	1.63	4.52	3.60	9.75	6.15	6.80	Not for sale.
361	As guaranteed	3.3	4	1	5	2	8	6	3	48260
	As found	3.35	4.06	0.75	7.55	2.20	10.50	8.30	2.03	Meets guar- antee.
148	As guaranteed	4.12	5	5.5	3.5	0.25	9.25	9	5	48261
	As found	3.82	4.64	6.15	2.60	2.00	10.75	8.75	6.75	"
144	As guaranteed	2.80	3.5	5	3	0.25	8.25	8	3	48262
	As found	2.34	2.84	5.10	2.60	1.20	12.00	7.80	2.90	"
145	As guaranteed	2.47	3	5	3	0.25	8.25	8	5	48263
	As found	2.39	2.90	5	4.30	3.75	13.05	9.30	5.10	"

JNO. TALBOT, INSPECTOR.

144	As guaranteed	2.80	3.5	5	3	0.25	8.25	8	3	48220
	As found	2.18	2.65	7.45	4.45	2.60	15.50	12.90	2.90	Meets guar- antee.
145	As guaranteed	2.47	3.00	5	3	0.25	8.25	8	5	48230
	As found	2.17	2.64	5.10	4.60	3.85	13.55	9.70	4.98	"
546	As guaranteed	1.64	2	6.5	1.5	1.25	9.25	8	6	48231
	As found	2.05	2.49	7.20	1.30	2.95	11.45	11.50	6.00	"
545	As guaranteed	1.64	2	6.5	1.5	1.25	9.25	8	2	48232
	As found	2.05	2.49	6.75	3.35	2.20	12.30	10.10	3.26	"

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

DISTRICT OF WINDSOR—

1912.								
May	2 Garden Truckers.	48233	Wm. Stone & Sons Co., Ingersoll.	3 jars.	Nil	Vendors.		
"	2 Bone, Blood and Potash.	48234	"	3 "	"	"		
"	2 Corn, Wheat and Oats.	48235	"	3 "	"	"		
"	3 New York Special.	48241	McIntosh Coal Co., Woodstock.	3 "	"	Crocker Fert. Wks., Buffalo.		
"	Potato Mamre	48242	A. Hastings & Son, Woodstock.	3 "	"	W. A. Freeman Co., Ltd., Hamilton.		
"	3 Nitrate of Soda	48243	"	3 "	25	"		
"	3 Homestead Bone Black.	48244	A. Patrick, Woodstock.	3 "	"	Mich. Carbon Wks., Detroit.		
"	6 Tobacco Manure.	48250	Saml. Glenn & Son, Chatham.	3 "	"	Stone Sons, Ltd., Ingersoll.		
"	6 Special Beet Fertilizer.	48251	Jas. D. Soutar, Chatham.	3 "	"	Mich. Carbon Wks., Detroit.		
"	6 Garden and Vegetable.	48252	"	3 "	"	"		
"	9 Bone Meal.	48270	Hewer Seed Co., Guelph.	3 "	10	W. A. Freeman Co., Hamilton.		
"	9 Lawn Dressing.	48271	"	3 "	10	"		
"	9 Bone Black.	48272	Massey-Harris, Guelph.	3 "	Nil.	Mich. Carbon Wks., Detroit.		
"	9 Nitrate of Soda	48273	O. H. Killer, Stratford.	3 "	15	Nitrate Agencies Co., New-York		
"	9 Acid Phosphate.	48274	"	3 "	10	"		
"	9 Muriate of Potash.	48275	J. A. Andrew, Stratford.	3 "	25	"		

DISTRICT OF CALGARY—

May	16 Dried Blood.	44171	P. Burns & Co., East Calgary.	3 lbs.	10	Vendors.		
"	16 Tankage.	44172	"	3 "	10	"		
"	16 Fertilizer C.	44173	"	3 "	10	"		
"	16 Fertilizer A.	44174	"	3 "	10	"		
"	16 Standard.	44175	"	3 "	10	"		
"	16 Fertilizer D.	44176	"	3 "	10	"		
"	16 Fertilizer B.	44177	"	3 "	10	"		
"	16 Bone Meal	44178	"	3 "	10	"		
"	16 Lawn	44179	"	3 "	10	"		

SESSIONAL PAPER No. 14
FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.			Phosphoric acid p.c.						
		Total including that of nitric acid or ammonia if present.	Total calculated as Ammonia.	Soluble in water.	Reverted or Citrate-Soluble.	Insoluble.	Total.	Total available.	Potash.		
<i>Concluded.</i>											
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
543	As guaranteed	4.94	6	4	3	1.75	8.75	7	5	48233	
	As found.	5.32	6.46	4.20	3.60	3.15	10.95	7.80	4.79	Meets guarantee.	
541	As guaranteed	3.29	4	5.5	2.5	1.5	9.5	8	7	48234	
	As found.	3.36	4.08	6.55	3.35	4.50	14.40	9.90	8.65		
542	As guaranteed	0.82	1	8.5	0.55	1	10	9	2	48235	
	As found.	0.93	1.13	7.80	2.15	1.65	11.60	9.95	3.05		
192	As guaranteed	...	...	8	2	1	11	10	8	48241
	As found.	...	...	8.55	3.70	0.85	13.10	12.25	7.65	
145	As guaranteed	2.47	3	5	3	0.25	8.25	8	5	48242	
	As found.	2.53	3.08	5.95	3.20	4.30	13.45	9.15	5.02		
153	As guaranteed	15.00	18	...	...	...	...	...	...	48243
	As found.	16.40	19.91	...	...	...	...	...	...
213	As guaranteed	2.06	2.5	6	2	1	9	8	1.5	48244	
	As found.	2.04	2.47	8.00	1.65	1.45	11.10	9.65	1.58		
541	As guaranteed	2.47	3	5.5	1.5	1.25	8.25	7	4	48250	
	As found.	2.94	3.57	6.10	3.45	2.45	12.00	9.55	4.50		
208	As guaranteed	1.65	2	6	2	1	9	8	5	48251	
	As found.	1.73	2.10	8.50	1.40	1.40	10.30	9.90	5.08		
209	As guaranteed	1.65	2	6	2	1	9	8	5	48252	
	As found.	1.58	1.92	8.35	1.90	1.75	12.00	10.25	4.95		
146	As guaranteed	2.47	3	...	20	1	21	20	...	48270	
	As found.	4.58	5.56	...	16.55	4.10	20.65	16.55	...		
157	As guaranteed	2.47	3.0	5.5	3.5	0.25	9.25	9.0	4.0	48271	
	As found.	2.21	2.68	8.35	0.40	3.00	11.75	8.75	4.71		
213	As guaranteed	2.06	2.5	6.0	2.0	1.0	9.0	8.0	1.5	48272	
	As found.	2.12	2.58	7.50	2.40	2.45	11.35	8.90	1.93		
255	As guaranteed	15.0	18.3	...	...	...	...	...	...	48273
	As found.	15.78	19.16	...	...	...	...	...	...
256	As guaranteed	...	...	15.80	2.05	0.80	18.65	17.85	...	48274
	As found.	...	...	...	...	...	...	...	...
257	As guaranteed	...	...	...	...	...	...	...	50.0	48275
	As found.	...	...	...	...	...	...	...	49.70	
R. W. FLETCHER, INSPECTOR.											
439	As guaranteed	10.74	13.04	...	3.0	0.77	3.77	3.0	...	44171 Meets guarantee.	
	As found.	10.42	12.65	1.80	1.25	1.15	4.20	3.05	...		
440	As guaranteed	7.59	9.49	Trace.	5.87	2.94	8.78	5.87	...	44172	
	As found.	7.00	8.50	0.40	7.45	3.75	11.70	7.95	...		
432	As guaranteed	5.61	6.81	0.86	3.07	6.67	10.60	3.93	5.71	44173	
	As found.	5.71	6.93	1.65	5.85	3.90	11.40	7.50	7.57		
430	As guaranteed	2.80	3.40	0.26	1.15	13.80	15.30	1.41	3.86	44174	
	As found.	4.72	5.73	0.55	7.10	9.25	17.90	7.65	4.82		
313	As guaranteed	6.54	7.94	0.15	7.69	5.15	12.99	7.84	0.08	44175	
	As found.	7.38	8.96	0.70	7.85	4.65	13.20	8.55	0.25		
433	As guaranteed	6.53	7.93	0.17	8.25	4.30	12.72	8.41	4.66	44176	
	As found.	6.34	7.70	1.10	6.80	4.35	12.25	7.90	7.01		
431	As guaranteed	6.10	7.40	0.11	9.28	2.81	12.20	9.90	4.77	44177	
	As found.	5.01	6.08	0.25	6.55	2.70	9.35	6.80	11.39		
321	As guaranteed	3.51	4.26	0.15	15.7	7.89	23.74	15.85	Trace.	44178	
	As found.	4.47	5.43	0.95	13.15	11.45	25.55	14.10	0.20	44179	
	As found.	5.72	6.95	2.00	7.55	11.55	21.10	9.55	...	Not registered.	

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

DISTRICT OF NELSON—

1912.								
April 18	Fertilizer.....	49658	Vernon Fruit Co., Vernon, B.C.	3 lbs.	15	Swift Canadian Co., Edmonton		
" 18	"	49659	" ..	3 " ..	15	" ..		
" 18	"	49660	" ..	3 " ..	15	" ..		
" 26	"	49661	D. E. Gellatly & Sons, Gellatly, B.C.	3 " ..	25	Victoria Chem. Co., Victoria, B.C.		
" 26	"	49662	" ..	3 " ..	25	" ..		
" 26	"	49663	" ..	3 " ..	25	" ..		
" 26	"	49664	" ..	3 " ..	25	" ..		
" 26	"	49665	" ..	3 " ..	25	" ..		
May 2	"	49670	Brackman Ker M. Co., Nelson, B.C.	3 " ..	15	" ..		
" 2	"	49671	" ..	3 " ..	15	Vendors.....		
" 2	"	49672	P. Burns & Co., Calgary.	3 " ..	15	" ..		
" 2	"	49673	" ..	3 " ..	15	" ..		
" 2	"	49674	" ..	3 " ..	15	" ..		

DISTRICT OF VANCOUVER—

May 7	Fertilizer....	38346	Brackman Ker M. Co., New West- minster.	5 lbs.	15	Victoria Chem., Co., Victoria, B.C.		
" 13	Bone Meal....	38347	A. R. MacDougall, Vancouver.	3 " ..	15	Portland Seed Co., Portland, O.		Not regis- tered.
" 13	Sheep Manure	38348	Chas. Keeler, Van couver.	3 " ..	15	J. A. Simmers, Ltd., Toronto.		" ..
" 14	Sulphate of Potash.	38349	Royal Nurseries, Vancouver.	3 " ..	20	Victoria Chem Co., Victoria, B.C.		
" 14	Nitrate of Soda	38350	" ..	3 " ..	20	" ..		
" 15	Blood	38351	Brown Bros. South Vancouver.	3 " ..	20	P. Burns & Co., Vancouver.		Not regis- tered.

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FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid p.c.					
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.		Potash.

THOS. PARKER, INSPECTOR.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
341	As guaranteed	4.12	5.0	6.87					12.00	19658
	As found	4.50	5.31	6.58			10.90		11.58	Meets guarantee
342	As guaranteed	4.52	5.5	7.32					9.0	19659
	As found	5.18	6.29	6.68			14.85		12.24	
343	As guaranteed	4.93	6.0	7.78					6.0	19660
	As found	5.97	6.15	4.15				11.25	8.14	
74	As guaranteed	3.5							10.00	19661
	As found	4.33	5.26	11.05				11.05	10.56	
77	As guaranteed	15.5								19662
	As found	16.15	19.60							
78	As guaranteed								50.0	19663
	As found								49.48	
79	As guaranteed								50.0	19664
	As found								49.80	
80	As guaranteed							16.00		19665
	As found			18.70						
76	As guaranteed	2.5						10.00		19670
	As found	2.50	3.04	8.20				12.05	12.00	
355	As guaranteed		3.5					26.00		19671
	As found	2.70	3.28					26.2		
430	As guaranteed	2.80	3.10	0.26	1.15	13.89	15.30	1.41	3.80	19672
	As found	3.48	4.21	0.90	10.25	9.15	20.25	11.15	6.52	
431	As guaranteed	6.10	7.40	0.11	9.28	2.81	12.20	9.39	4.77	19673
	As found	6.42	7.80	0.25	9.20	2.86	12.25	9.45	3.24	
432	As guaranteed	5.61	6.81	0.86	3.07	6.67	10.60	3.93	5.71	19674
	As found	7.39	8.87	0.80	3.95	5.85	10.60	4.75	6.78	

J. E. POWER, INSPECTOR.

74	As guaranteed	3.5					9.0		11.0	38346	Meets guarantee
	As found	3.77	4.60				10.85		12.02		
(538)	As guaranteed	4.19							22.64	38347	
	As found	3.79	4.50						23.35		
	As guaranteed									38348	Not registered.
	As found	1.75	2.43	1.90	0.30	1.25	3.45	2.20			
78	As guaranteed								50.0	38349	Meets guarantee
	As found								50.00		
77	As guaranteed	15.5								38350	
	As found	15.96	19.38								
(439 or 603)	As guaranteed	10.74	13.04		3.0	0.77	3.77	3.0		38351	Manufacturers register No. 439 & 603. Blood fertilizers. Sample meets guarantee of other.
	As found	12.34	15.0	1.40	0.40	0.35	2.15	1.80			

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

DISTRICT OF VANCOUVER—

1912.								
May 15	Tankage.. . . .	38352	Brown Bros. South Vancouver.	3 lbs.	20	P. Burns & Co., Vancouver.		Not registered.
" 16	Fertilizer.	38353	W. J. Rennie & Co. Vancouver.	3 pkgs	60	W. J. Rennie & Co., Toronto.		
" 16	Tankage.....	38354	P. Burns & Co., Vancouver.	5 lbs..	60	Vendors.....		Not registered.
" 16	Blood.....	38355	"	5 "	60	"		"

DISTRICT OF VICTORIA—

April 24	Fertilizer A.	49157	The Brackman Ker M. Co., Victoria B.C.	5 lbs.	15	The Victoria Chem. Co. Ltd. Victoria, B.C.		
" 29	Fertilizer B.	49158	"	5 "	15	"		
" 29	Fertilizer C.	49159	"	5 "	10	"		
" 29	Fertilizer D.	49160	"	5 "	15	"		
" 29	Blood Meal	49161	"	5 "	20	P. Burns & Co., Vancouver. B.C.		Evidently not reg. No marks visible on Sack.
" 29	Bone Meal	49162	The Brackman Ker M. Co., Victoria B.C.	5 "	10	Pacific Whaling Co., Ltd., Victoria, B.C.		
" 29	Nitrate of Soda	49164	Victoria Chem. Co Ltd., Victoria, B.C.	5 "	20		Parrott & Co. San Francisco.	
" 30	Superphosphate of Lime	49165	"	5 "	20	Mountain Copper Co., San Francisco, Cal.		
" 30	Sulphate of Potash.	49166	"	5 "	20		Myer Wilson & Co., San Francisco, Cal.	
" 30	Nitrate of Potash.	49167	"	5 "	20		"	

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FERTILIZER AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.							Remarks and Opinion of the Chief Analyst.	
		Nitrogen p.c.		Phosphoric Acid p.c.						
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.		Potash.
<i>Concluded.</i>										
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
(692)	As guaranteed	6.37	7.77	Trace.	5.87	2.91	8.78	5.87		38352
	As found.	6.71	8.14	3.19	5.55	3.50	12.15	8.65		Meets guar- antee.
276	As guaranteed		2.5	8.0					2.0	38353
	As found	1.97	2.40	12.10			15.70		3.88	
(692)	As guaranteed	6.37	7.75	Trace.	5.87	2.91	8.78	5.87		38351
	As found	6.20	7.53				14.20			
(439)	As guaranteed	10.74	13.04		3.0	0.77	3.77	3.0		38355
603	As found	12.34	15.0	1.00	0.10	0.65	1.75	1.10		See note un- der 38351 Meets guar- antee.

D. O'SULLIVAN, INSPECTOR

73	As guaranteed	4.0					10.0	7.0	49167
	As found	4.21	5.12				13.70	9.93	Meets guar- antee.
74	As guaranteed	3.5					10.0	11.0	49158
	As found	3.97	4.82				10.60	13.52	
75	As guaranteed						12.5	11.0	49159
	As found						16.15	13.83	
76	As guaranteed	2.5					10.0	11.0	49160
	As found	2.40	2.92				14.05	13.05	
(439)	As guaranteed	10.74	13.04		3.0	0.77	3.77	3.0	
603	As found	12.34	15.18	0.55	0.30	1.35	2.20	0.85	49161
									See note un- der 38351. Meets guar- antee.
355	As guaranteed		3.5				26.0		49162
	As found	2.83	3.5				26.95		Meets guar- antee.
77	As guaranteed	15.5							49164
	As found	16.05	19.49						"
80	As guaranteed						16.0		49165
	As found						20.65		
78	As guaranteed							50.0	49166
	As found							49.25	
79	As guaranteed							50.0	49167
	As found							49.55	"

APPENDIX G.

BULLETIN No. 243—COCOAS AND CHOCOLATES.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister,
Inland Revenue,

OTTAWA, October 16, 1912.

SIR,—I beg to hand you a report upon 252 samples purchased as cocoas and chocolates in February and March of this year.

Cocoa has not been systematically inspected since September, 1900 (see Bulletin No. 72). At that time it was found that cocoa and chocolate were, as a rule, quite free from anything that could be regarded as adulteration.

The various processes of manufacture including removal of more or less fat, addition of starch, fineness of grinding, &c., have for their object the preparation of the article in digestible form, and there can be no doubt that the different brands found on the market approve themselves to the different tastes and needs of users of cocoa.

The terms cocoa and chocolate appear to be employed according to no very definite rule. It would be well to restrict the term chocolate to the sugared article, and especially to a preparation containing vanilla or other flavouring substance.

Where our inspectors have sent in considerable numbers of samples from the same manufacturers, it will be noted that such samples, when representing the same brand, give analytical results of very constant character. This indicates great care in manufacture; and it may be safely inferred from the appended tables, that cocoa and chocolate, as found on our markets, are of good quality. In one or two instances (see No. 49350 & 49351) the ash and the fat content are exceptional. Such samples are usually sold in bulk, and do not bear the manufacturer's name. They contain excess of cocoa husk.

We have not established any legal standards for these articles, and the present report may serve the purpose of a guide for future action in this direction. The federal standards of the United States of America require chocolate to contain not more than three (3%) per cent of insoluble ash, or three and a half (3.5 %) per cent of fibre or less than forty-five (45%) per cent of cocoa fat. They further limit the amount of starch permissible to nine (9%) per cent. Cocoa is defined as

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a product from which more or less of the fat has been removed, with corresponding changes in the amount of remaining constituents.

I consider it unnecessary as yet to advise standardization of cocoa and chocolate; and would respectfully suggest that the present report be published as Bulletin No. 243.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,

Chief Analyst.

NOTES.

MOTT.

Number of Sample.	Ash.		Alkalinity of Ash.	Moisture.	Fat.	Sugar.	Remarks.
	Total.	Soluble.					
47019	5.08	2.22	6.50	5.75	25.75	.....	Cocoa.
19347	5.70	2.55	7.05	6.15	18.80	.....	"
47022	3.27	.....	.....	.....	.....	.....	Chocolate.
47024	2.95	1.25	3.69	2.00	46.85	.....	"
46162	2.77	.....	.....	.....	.....	.....	"
45606	2.88	1.00	3.32	1.98	40.25	.....	"
49527	2.99	1.63	4.14	2.39	40.30	.....	"
40830	3.01	1.32	3.80	4.21	34.60	.....	"
49352	1.07	0.52	.....	0.97	22.10	63.32	Double diamond.

"CADBURY."

50127	1.48	0.94	.....	1.23	7.30	72.71	Chocolate.
50130	1.48	0.93	.....	1.25	7.25	71.46	"
44127	1.65	1.04	.....	1.94	7.35	69.50	"
48607	8.20	6.72	10.05	3.90	27.20	.....	Cocoa.

EPPS.

*46169	1.53	0.66	2.00	4.27	23.15	30.78	Cocoa.
39037	1.46	.....	.....	.....	.....	.....	"
*40822	1.56	0.64	2.05	3.71	22.70	31.56	"
*50125	1.58	0.70	2.05	3.78	23.10	29.68	Presence of starch (arrowroot) stated on the label.

GHURARDELLI.

38280	2.77	1.96	.....	1.92	14.20	58.50	Chocolate powder.
47700	3.02	2.05	.....	2.39	15.40	55.18	" "
48489	2.98	2.06	.....	1.80	15.00	54.42	" "
47698	1.49	0.55	.....	1.55	24.35	58.37	" cake.

H. DE JONG.

49523	7.60	5.04	9.80	4.30	28.65	Cocoa.
49612	7.51	6.07	10.40	4.40	27.45	"
49695	7.76	5.47	10.20	6.45	26.95	"

* Contains starch.

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COCHRANE.

Number of Sample.	Ash.		Alkalinity of Ash.	Moisture.	Fat.	Sugar.	Remarks.
	Total.	Soluble.					
50124	3.71	1.64	4.79	3.65	19.46	19.79	Cocoa
50129	6.55	2.26	7.17	5.17	17.95		Chocolate.

MENDER.

46165	1.32	0.51		1.24	22.45	60.90	Chocolate.
46829	1.31	0.59		1.06	23.95	61.95	"

HOWARTH.

45692	5.52	2.04	6.35	4.23	29.35		Cocoa.
47694	7.74	6.40	19.49	4.89	28.00		"

FETLEY.

41124	8.69	7.14	11.39	5.67	23.65	24.25	Cocoa
38279	8.45	6.89	11.00	7.08	24.20		"

TODDSTER.

45698	3.00	0.91	3.36	3.62	42.05		Chocolate.
49354	1.32	0.49		1.22	22.45	55.93	diamond
47869	6.12	1.62	6.25	3.05	23.79		Cocoa

VAN HOUTEN.

41125	8.25	6.75	11.15	3.34	27.55		Cocoa.
49613	8.05	6.58	10.50	4.47	28.95		"
38277	7.95	6.47	10.49	4.34	28.95		"

38282	2.84	2.00		2.15	14.75	56.08	Chocolate, Charlesworth.
47697	0.74	0.32		1.50	24.79	52.54	Dom. Cho. Works.
38278	6.80	4.85	9.10	4.82	27.79		Cocoa, Dreissen.
47016	7.01	5.50	9.15	5.42	24.45		Melior.
47692	6.08	4.45	8.10	5.71	29.70		Ridgway.
47020	8.08	6.58	10.00	4.82	26.80		Schwartz.
48606	6.67	4.93	8.70	3.95	30.55		Suchard.

* Contains starch (maize in 47697, arrowroot in 50124).

BAKERS CHOCOLATE AND COCOA.

Number of Sample.	ASH.		Alkalinity of Ash.	Moisture.	Fat.	Sugar.	Remarks.
	Total.	Soluble.					
47021	3.10						Chocolate No. 1.
46161	3.11	1.27	3.8	0.76	54.1		"
45607	3.05						"
37367	3.01						"
40826	3.17	1.27	3.8	0.76	54.1		"
49526	2.90						"
49528	3.10	1.15	3.6	1.02	54.4		"
49529	3.12						"
48611	3.26						"
48612	2.93	1.11	3.5	1.95	54.4		"
48614	3.18						"
49608	3.26						"
47696	3.32						"
47023	1.55	0.52		0.90	39.5	41.2	Sweetened chocolate.
46167	5.16						Cocoa.
45601	5.80						"
45605	5.65	2.07	6.8	4.02	24.5		"
40823	5.47						"
50122	5.21	1.85	6.4	4.26	27.0		"
49521	5.10						"
49522	5.19						"
48083	5.22						"
48610	5.74	1.89	6.9	3.50	24.8		"
44121	5.35	2.00	6.4	4.58	28.0		"
44123	5.06						"
39034	5.65						"
47888	5.18	1.78	6.3	4.41	27.9		Sold as Webb's.
39033	5.75	2.34	6.8	6.05	25.2		Sold in bulk.
39038	5.53	2.29	6.7	6.05	25.5		"

FRY.

47017	1.67						Cocoa.
*37358	1.67	0.59	2.05	3.46	14.90	36.83	Homeopathic cocoa.
37360	1.66						"
*39035	1.82	0.63	2.15	2.90	15.10	39.70	"
*48192	1.58	0.50	1.95	3.33	14.25	38.33	"
*3277	1.67						"
47693	1.77						"
46170	5.28						Breakfast cocoa.
37361	5.37	3.95	8.25	5.27	30.85		"
39036	5.46	4.11	8.30	5.09	31.10		"
50121	5.41						"
48208	5.41	4.02	8.10	4.76	30.40		"
48220	5.45						"
48096	5.45						"
48609	5.52	4.13	8.15	4.45	31.25		"
46164	0.96	0.38		1.37	22.60	59.25	Chocolate.
37364	3.01	0.97		2.43	17.90	41.31	"
37365	1.27						"
39040	1.26						"
50128	1.25						"
48213	1.22	0.42		1.10	23.05	59.25	" powder.
48225	1.18						"
48086	1.24	0.41		1.05	23.80	57.14	"
48095	1.28						"
48613	0.92	0.33		1.11	22.50	60.90	" diamond.
45603	5.48						Cocoa.?
40821	5.46						" ?

*Contains starch (arrowroot) stated as "Other ingredients" on the label.

SESSIONAL PAPER No. 14

LOWNEY'S.

Number of Sample.	Ash.		Alkalinity of Ash.	Moisture.	Fat.	Sugar.	Remarks.
	Total.	Soluble.					
47025	2.98	0.98	3.69	2.06	53.2		Chocolate.
37366	3.35	1.40	3.85	6.99	53.0		"
40827	3.68	1.34	4.04	9.41	51.35		"
48615	3.24						"
49607	3.31						"
46168	5.23	2.11	6.45	5.68	22.75		Breakfast-cocoa.
45604	5.43	2.07	6.55	4.19	22.95		"
37359	5.82						"
37362	5.50	2.26	6.65	3.79	23.95		Cocoa.
40825	5.63						"
48608	5.14						"
49614	5.59	2.29	6.80	4.17	29.60		"
45609	1.14	0.43		1.12	25.60	58.9	Diamond-Egg-chocolate.
37363	1.25	0.41		1.19	23.80	56.38	"
39641	2.87	0.88		1.10	16.29	49.60	Chocolate.
39042	2.65	0.81		2.31	16.60	49.75	"
39043	2.92				17.15	45.38	"
50126	3.06	1.04		2.11	15.85	43.42	"
44126	3.04	1.02		1.76	16.30	43.87	" premium.
44128	2.59	0.88		1.78	16.29	47.95	"
44129	2.63	0.88		1.71	15.35	48.10	"
44130	3.27	1.07		1.87	16.75	42.37	"
48430	2.40	0.96		1.91	18.20	46.30	"
38281	2.66	0.97		2.55	15.20	47.80	"

MANUFACTURE UNKNOWN.

49344	5.69	3.07	6.60	3.95	24.65		Cocoa.
49350	4.79	1.74	5.29	2.95	6.00		"
49351	13.89	2.91	11.40	1.00	3.79		"
49356	7.19	1.58	5.95	4.55	25.50		Chocolate.

C. VAN S.

47918	5.24						Chocolate.
46166	5.05						"
46824	5.39						"
50123	5.47	1.82	6.49	4.49	22.95	23.70	"
49524	5.34	1.86	6.20	4.40	23.25		"
49534	5.30						"
49348	5.50						"
47882	5.59						"
47891	5.39						"
47867	5.26	1.69	6.20	4.17	25.25		"
48080	5.19						"
44122	5.25						"
38276	5.64	1.84	6.30	4.13	23.90		"
47691	5.05						"
46163	4.00						Chocolate.
45610	3.38	1.35	3.81	1.23	52.60		"
46828	4.15	1.45	4.91	2.27	35.25		"
49530	4.24						"
49355	4.19	1.42	4.90	1.26	34.75		"
49609	3.69	1.17	3.61	1.51	54.05		"
47699	3.86	1.48	4.98	4.60	34.10		"
48430	2.34	0.95	3.40	2.89	11.20	45.56	"

* Contains starch. Excess husk.

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BULLETIN No. 243—COCOAS

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.							
Feb. 19	Cocoa	47016	Wentzells, Ltd., Halifax, N.S.	3 tins.	45	Melior, Holland.	Mrs.
" 20	"	47017	City Provision Store, Halifax, N.S.	3 "	30	J. S. Fry, London, Eng.	"
" 20	"	47018	W. J. Forristall & Co., Halifax, N.S.	3 "	30	Cowan Co., Toronto.	Unknown
" 20	"	47019	John P. Mott & Co., Halifax, N.S.	3 "	Nil	Vendors	"
Mar. 6	"	47020	W. H. Schwartz & Sons, Halifax, N.S.	3 "	25	"	"
Feb. 19	Chocolate	47021	Wentzells, Ltd., Halifax, N.S.	½ lb.	25	W. Baker, Dorchester, Mass.	Mrs.
" 20	"	47022	T. H. Brown, Halifax, N.S.	½ "	20	J. P. Mott & Co., Halifax, N.S.	J. P. Crowe & Co., Halifax.
" 20	"	47023	W. J. Hopgood & Sons, Halifax, N.S.	½ "	18	W. Baker, Dorchester, Mass.	Mrs.
" 21	"	47024	John P. Mott & Co., Halifax, N.S.	½ "	Nil	Vendors	"
" 21	"	47025	J. F. Crowe & Co., Ltd., Halifax, N.S.	½ "	17	W. M. Lowney Co., Montreal	Mrs.

DISTRICT OF PRINCE EDWARD ISLAND—

Feb. 8	Chocolate	46161	Beer & Goff, Charlottetown, P.E.I.	3 pks	75	Walter Baker & Co., Ltd., Dorchester, Mass.	"
" 8	"	46162	" " "	3 "	60	John P. Mott & Co., Halifax, N.S.	"
" 9	"	46163	John McKenna, Charlottetown, P.E.I.	3 "	30	Cowan & Co., Ltd., Toronto.	"
" 15	"	46164	Brace & McKay Co., Ltd., Summerside, P.E.I.	3 "	24	J. S. Fry & Sons, Bristol & London, Eng.	"
" 19	"	46165	Sanderson & Co., Charlottetown, P.E.I.	3 "	36	M. Menier	"
" 7	Cocoa	46166	Stewart & Son, Charlottetown, P.E.I.	3 "	30	The Cowan Co., Ltd., Toronto.	"
" 7	"	46167	" " "	3 "	45	The Walter Baker Co., Ltd., Montreal	"
" 8	"	46168	Beer & Goff, Charlottetown, P.E.I.	3 "	45	The Walter M. Lowney Co., Montreal.	"
" 9	"	46169	John McKenna, Charlottetown, P.E.I.	3 "	30	Jas. Epps & Co., Ltd., London, Eng.	"
" 15	"	46170	Brace-McKay Co., Ltd., Summerside, P.E.I.	3 "	45	J. S. Fry & Sons, Ltd., Bristol, Eng.	"

BULLETIN No. 243—COCOAS

Date of Collection.	Nature 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.							
Feb.	6	Cocoa	45601	Dearborn & Co., St. John, N. B.	3 tins.	33	Walter Baker & Co., Ltd., Montreal.
"	14	"	45602	Wm. Hawker & Son, John, N. B.	St. $\frac{1}{2}$ lb.	45	Rowntree, York, Eng.
Mar.	5	"	45603	Yerxa Grocery Store, Fredericton, N. B.	3 cans	30	J. S. Fry & Sons, Ltd., Bristol, Eng.
"	13	"	45604	Reed & Co., Ltd., Moncton, N. B.	3 "	30	The Walter M. Lowney Co., Ltd., Montreal.
"	14	"	456	I. D. Paulin, N. B.	Newcastle, 3 "	45	Walter Baker & Co., Montreal.
Feb.	7	Chocolate.	45606	Walter Gilbert, St. John, N. B.	$\frac{1}{2}$ lb.	20	Jno. P. Mott & Co., Halifax, N. S.
"	7	"	45607	McPherson Bros., John, N. B.	St. $\frac{1}{2}$ "	20	Walter Baker & Co., Ltd., Dorchester, Mass.
Mar.	6	"	45608	Borden & King, Woodstock, N. B.	3 pks.	30	Todhunter, Mitchell & Co., Toronto.
"	13	"	45609	Reed & Co., Ltd., Moncton, N. B.	3 bars	21	The W. M. Lowney Co., Montreal.
"	14	"	45610	George Stables, N. B.	Newcastle, $\frac{1}{2}$ lb.	25	The Cowan Co., Ltd., Toronto.

DISTRICT OF QUEBEC—

Feb.	6	Cocoa	37358	Arthur Rinfret, St. Joseph, Quebec.	414 Rue $\frac{1}{2}$ lb.	30	J. S. Fry & Sons, Bristol, Quebec.
"	7	"	37359	Arthur Drolet, Vallee, Quebec.	714 Rue St. $\frac{1}{2}$ "	30	Lowney's Co., Montreal.
"	7	"	37360	"	" $\frac{1}{2}$ "	30	Fry & Sons, Bristol.
"	8	"	37361	O. LaCroix, Joseph, Quebec.	19 Rue St. $\frac{1}{2}$ "	36	" " Mfrs., Langlois & Paradis.
"	8	"	37362	"	" $\frac{1}{2}$ "	30	Lowney's, Montreal.
"	7	Chocolate.	37363	Arthur Drolet, Vallee, Quebec.	714 Rue St. $\frac{1}{2}$ "	39	" " Mfrs.
"	7	"	37364	"	" $\frac{1}{2}$ "	30	J. S. Fry & Sons, Bristol.
"	8	"	37365	O. LaCroix, Joseph, Quebec.	19 Rue St. $\frac{1}{2}$ "	45	" " Mfrs., & Cie.
"	8	"	37366	"	" $\frac{1}{2}$ "	30	Lowney's, Montreal.
"	8	"	37367	"	" $\frac{1}{2}$ "	25	Baker, Dorchester, Eng.

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.							
Mar. 25	Cocoa	39033	H. Belisle, St. Hyacinthe	1 box	25	W. Baker & Co., Ltd.	
Feb. 19	"	39034	N. Larivie, Farnham	3 "	39	Bakers	Hudson & Orsali Montreal.
" 20	"	39035	L. Bissonnet, St. Jean	3 "	30	J. S. Fry & Sons, Ltd.	
" 20	"	39036	D. Cussan, St. Jean	½ lb.	25	"	
Mar. 6	"	39037	Davignon & Pratte, Knowlton.	3 boxes	25	J. Epps & Co., Ltd.	
" 7	"	39038	The Hub, Cowansville, P. Q.	½ lb.	25	W. Baker & Co., Ltd.	
Feb. 19	Chocolate	39040	E. Bienvenn, Farnham	3 boxes	36	J. S. Fry & Sons, Ltd.	
" 22	"	39041	Lemay & Fiset, Sherbrooke	3 "	30	Lowney, Montreal	
Mar. 6	"	39042	N. O. Rockwell, Waterloo	½ lb.	25	"	
" 19	"	39043	P. Thibault, Victoriaville	3 boxes	30	"	

DISTRICT OF MONTREAL—

Feb. 14	Cocoa	40821	M. Schwartz, 100 St. Catherine St., Montreal.	3 tins.	25	J. S. Fry & Son	
" 14	"	40822	E. Martin, 203 Laurier Ave., W., Montreal.	3 "	25	Jas. Epps & Co., Ltd.	
" 14	"	40823	" " "	3 "	35	W. Baker & Co., Ltd. Montreal.	
" 15	"	40824	Wilfrid Brouillet, 77 University St., Montreal.	3 "	30	The Cowan Co., Ltd. Toronto.	
" 15	"	40825	S. Dever & Son, 107 Colonial Ave., Montreal.	3 "	45	Walter M. Lowney	
" 15	Chocolate	40826	Wilfrid Brouillet, 77 University St., Montreal.	3 cakes	10	W. Baker Co., Ltd.	
" 15	"	40827	S. Dever & Son, 107 Colonial Ave., Montreal.	3 "	40	W. M. Lowney Co.	
" 15	"	40828	" " "	3 "	30	The Cowan Co., Ltd.	
" 15	"	40829	L. Beaudoin, 21 Vitre St., Montreal.	3 "	45	Meniers	
" 16	"	40830	L. S. Guay, 124 Sherbrooke St., W., Montreal.	3 "	30	Jno. P. Mott & Co.	

SESSIONAL PAPER No. 14
AND CHOCOLATES.

RESULTS OF ANALYSIS.

Inspector's Report. (Is not an expression of opinion).	On Air Dry Original Material.										No. of Sample.	
	Total.	Ash.		Alkalinity of Ash (as Acid per Gram Chocolate and Cocoa.		Moisture.	Fat.		Cane Sugar.	Total Ash calculated to Fat and Moisture Free Sample.		Total Ash calculated to Fat, Moisture and Sugar Free Sample.	Percentage of Ash Soluble in Water.
		Soluble in Water.					By Centri- fuge.	By Contin- uous Extrac- tion 16 hrs.				
J. C. ROULEAU, INSPECTOR.												
		p.c.	p.c.		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
		5.75	2.34	6.77	6.05	25.15				8.35	41	39033
		5.65										39034
		1.82	0.63	2.15	2.90	15.10			39.70	4.30	35	39035
		5.46	1.11	8.30	5.09	31.10				8.56	75	39036
		1.56										39037
		5.53	2.29	6.70	6.05	25.50				8.08	41	39038
		1.26										39040
		2.87	0.88		1.10	16.20			46.60	7.95	31	39041
		2.65	0.81		2.31	16.00			49.75	8.10	31	39042
		2.92				17.15			45.38			39043
J. J. COSTIGAN, INSPECTOR												
		5.46										40821
		1.56	0.64	2.05	3.71	22.70			31.56	3.71	41	40822
		5.47										40823
		5.30										40824
		5.63										40825
		3.17	1.27	3.78	0.76	51.05				7.01	40	40826
		3.68	1.31	4.04	0.41	51.35				7.62	36	40827
		4.15	1.45	4.91	2.27	35.25				6.64	35	40828
"Chocolat Menier"		1.31	0.50		1.06	23.95			61.95	8.83	38	40829
"Motts Elite".....		3.01	1.32	3.80	4.21	34.60				4.92	44	40830

BULLETIN No. 243—COCOAS

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.								
Feb.	3	Cocoa	50121	Seely & Stewart, Bank st., Ottawa.	3 tins.	30	J. S. Fry & Son, Ltd., England.	Mfrs.....
"	5	"	50122	Williams & Vanluven, Smith's Falls.	3 "	39	W. Baker & Co., Ltd., Dorchester, Mass.	Robertson, Nicolle, & Co., Smith's Falls.
"	19	"	50123	Jos. P. Valiquette, Dalhousie st., Ottawa.	3 "	30	The Cowan Co., Ltd., Toronto.	S. Major, Ltd., Ottawa.
"	19	"	50124	L. Malette, Dalhousie st., Ottawa.	$\frac{3}{4}$ lb.	20	C. H. Cochrane & Co., Ottawa.	Mfrs.....
"	19	"	50125	J. Mundy, St. Patrick st., Ottawa.	3 tins.	30	Jas. Epps & Co., Ltd., London, Eng.	Unknown
"	3	Chocolate	50126	Murphy - Gamble, Ltd., Ottawa.	3 "	45	Lowney's, Montreal.	Mfrs.....
"	3	"	50127	Bate & Co., Sparks st., Ottawa.	3 "	75	Cadbury, England.	Crosse & Blackwell, London, Eng.
"	3	"	50128	A. L. Pinard & Sons, Rideau st., Ottawa.	3 "	47	J.S.Fry & Sons, Ltd., Bristol, Eng.	Mfrs.
"	19	"	50129	L. Malette, Dalhousie st., Ottawa.	$\frac{3}{4}$ lb.	30	C. H. Cochrane & Co., Ottawa.	"
"	20	"	50130	Bryson - Graham, Ltd., Ottawa.	3 tins.	75	Cadbury, England	"

DISTRICT OF KINGSTON—

Feb.	5	Cocoa	49521	W. J. Ne-bit, Kingston..	3 pks	45	Baker, Ltd., Dorchester, Mass.	.....
"	6	"	49522	A. Glover, Kingston.....	3 "	45	"	.....
"	6	"	49523	J. Gilbert, Kingston.	3 "	40	H. De Jong, Wormerveer, Holland.	.....
"	7	"	49524	Thompson Bros., Belleville	3 "	30	Cowan's, Toronto...	.....
"	5	Chocolate	49526	Wm. J. Arnil, Alfred st., Kingston.	3 "	38	Baker, Ltd., Dorchester, Mass.	.....
"	5	"	49527	W. H. Medley, Johnston st. Kingston.	3 "	30	J. P. Mott, Halifax.	.....
"	7	"	49528	J. B. Harker, Belleville..	3 "	75	Baker, Ltd., Dorchester, Mass.	.....
"	8	"	49529	J. E. Lillico, Peterboro. .	3 "	75	"	.....
"	8	"	49530	A. Pearson, Peterboro....	3 "	30	Cowan's, Toronto. .	.....
"	7	Cocoa	49534	S. Fort, Port Hope.....	3 "	30	"	.....

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.								
Feb.	8	Cocoa	49347	A. C. Tresham, 266 King St. West, Hamilton.	3 pks.	30	Motts	Unknown
"	14	"	49348	The Cowan Co., Ltd., King Road, Toronto.	3 "	23	Vendors	
"	15	"	49349	T. J. Medland, Ltd., King St. East, Toronto.	118 ½ lb.	13		
"	16	"	49350	J. G. Pond, Queen St. West, Toronto.	½ "	13		J. M. Lowes Co., Ltd., Toronto.
"	21	"	49351	Prentice & Sproule, Col-lingwood.	½ "	13		Lang & Bro., Collingwood.
"	7	Chocolate	49352	The Arthur Bell Co., Barton St. East, Hamilton.	3 cakes	15	Jno. P. Mott & Co., Halifax.	
"	13	"	49354	D. Cameron, 164 Main St. East, Toronto.	3 pks.	15	Todhunter, Mitchell & Co., Toronto.	
"	14	"	49355	The Cowan Co., Ltd., King Road, Toronto.	3 "	22	Vendors	
"	15	"	49356	J. M. Evans & Co., Dundas St., Toronto.	1743 ½ lb.	20		Robertson Bros., Toronto.

DISTRICT OF LONDON—

Feb.	19	Cocoa	47882	Jones & May, Exeter	3 pks.	30	Cowan & Co., Ltd., Toronto.	
"	19	Chocolate	47887	J. A. Stewart, Exeter	3 "	30	Pure Gold Mfg. Co., Toronto.	Pure Gold Chocolate.
"	19	Cocoa	47888	"	3 "	38	W. Baker Co., Ltd., Dorchester, Mass.	Labelled Webbs Pure Cocoa Powder.
"	20	"	47891	Geo. McLennon & Co., Clinton.	3 "	30	Cowan & Co., Ltd., Toronto.	
"	21	"	48208	McGuire & Co., Seaforth	3 "	45	J. S. Fry & Sons, Bristol, Eng.	Fry's Pure Breakfast Cocoa.
"	21	Chocolate	48213	T. S. Blues, Seaforth	3 "	45	"	Fry's Chocolate Powder.
"	22	Cocoa	48220	Knechtel Grocery Co., Stratford.	3 "	45	"	
"	24	Chocolate	48225	W. R. Butcher, St. Marys	3 "	30	"	Fry's Chocolate Powder.

SESSIONAL PAPER No. 14
AND CHOCOLATES

Results of Analysis.

Inspector's Report. (Is not on expression of opinion).	On Air Dry Original Material.											
	Ash.		Alkalinity of Ash as Acid per Gram Chocolate and Cocoa.		Moisture.		Fat.		Cane Sugar.		Total Ash calculated to Fat and Moisture Free Sample. Total Ash calculated to Fat, Moisture and Sugar Free Sample. Percentage of Ash Soluble in Water.	No. of Sample.
Total	Soluble in Water.					By Centu- fuge.	By Centu- fuge Extra- cted from Be- haves.					
	5.70	2.55	7.05	6.15	18.80	19.35		7.60		45	49347	
	5.70										49348	
Pure Cocoa imported by vendors.	5.00	3.07	6.00	3.95	24.05			7.08		60	49349	
	4.79	1.74	7.20	2.95	6.00	6.10		5.26		56	49350	
	13.89	2.91	11.10	1.00	3.70	4.20		15.05		21	49351	
"Double Diamond" Choco- late.	1.97	0.52		0.97	22.10			63.32		7.86	38	49352
Vienna Sweet Diamond Chocolate.	1.32	0.49		1.22	22.15			53.93		6.37	37	49354
Cowan's Perfection Choco- lates.	4.19	1.42	1.90	1.26	34.75			6.54		34	49355	
	5.19	1.58	5.95	4.55	25.50			7.42		30	49356	

JNO. TALBOT, ACTING INSPECTOR

	5.29										47882	
Pure Gold Chocolate	5.29										47887	
Labelled "Weid's" Pure Cocoa Powder	5.18	1.78	6.30	4.41	27.85			7.65		34	47888	
	5.30										47891	
Fry's Pure Breakfast Cocoa	5.41	4.02	8.10	4.76	30.45	31.30		8.44		73	48208	
Fry's Chocolate Powder	1.22	0.42		1.10	23.05			50.25		7.35	34	48213
	5.45										48220	
Fry's Chocolate Powder	4.18										48225	

* Contains starch. † Contains excess of bark. ‡ Chocolate Jelly Pudding coll. by mistake.

4 GEORGE V., A. 1914

BULLETIN No. 243—COCOAS

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

1912.							
Feb.	12	Cocoa	47867	W. H. Tricker, Sarnia	3 pks.	30	Cowan Co., Ltd., Toronto.
"	12	"	47869	R. Wanless, Sarnia	"	30	Tothunter, Toronto.
"	6	"	48080	John Diprose, London, Ont.	"	30	Cowan Co., Ltd., Toronto.
"	7	"	48083	Wm. Hayes, London, Ont.	"	45	Walter Baker Co., Ltd.
"	7	Chocolate	48086	Thos. Shaw, London, Ont.	"	30	J. S. Fry & Sons, Bristol, Eng.
"	8	"	48095	Teeples Market, London, Ont.	"	30	" "
"	8	Cocoa	48096	" "	"	30	" "

DISTRICT OF MANITOBA—

Feb.	20	Cocoa	48606	A. Macdonald & Co., Portage Ave., Winnipeg.	"	75	P. H. Suchards, Neuchatel, Suisse.
"	20	"	48607	Geo. Nixon & Co., Portage Ave., Winnipeg.	"	75	Calbury, England.
"	20	"	48608	" "	"	75	Lowney & Co., Montreal.
"	21	"	48609	N. Trimble, Portage Ave., Winnipeg.	"	45	Fry & Sons, Bristol, Eng.
"	21	"	48610	" "	"	45	Baker & Co., Ltd., Montreal.
"	21	Chocolate	48611	" "	"	75	W. Baker & Co., Ltd., Dorchester, Mass.
"	21	"	48612	H. G. Weldon & Co., Portage Ave., Winnipeg.	"	45	" "
"	21	"	48613	The Codville Co., Winnipeg.	"	13	J. S. Fry & Sons, Ltd., London, Eng.
"	21	"	48614	Foley Bros., & Larsen, Winnipeg.	"	50	W. Baker Co., Ltd., Dorchester, Mass.
"	21	"	48615	" "	"	50	Lowney Co., Ltd., Montreal.

DISTRICT OF CALGARY—

Mar.	6	Cocoa	44121	Capitol Mercantile Co., Edmonton.	3 pks.	45	Walter Baker & Co., Ltd., Montreal.
"	7	"	44122	Hudson Bay Co., Edmonton.	3 cans	39	The Cowan Co., Toronto.
"	7	"	44123	The Acme Co., Edmonton	3 "	45	Walter Baker & Co., Dorchester, Mass.
"	7	"	44124	Chas. W. Campbell, Edmonton.	3 "	75	Jos. Tetley & Co., Ltd., London, Eng.
"	7	"	44125	" "	3 "	90	C. J. Van Houten & Son, Weesp, Holland.

SESSIONAL PAPER No. 14
AND CHOCOLATES.

Inspector's Report. (Is not an expression of opinion.)	RESULTS OF ANALYSIS.											No. of Sample.
	On Air-Dry Original Material.											
	Total.	Ash. Soluble in Water.	Alkalinity of Ash, ccs. 1% Acid per gram Chocolate and Cocoa.	Moisture.	Fat.			Cane Sugar	Total Ash calculated to Fat and Moisture Free Sample.	Total Ash calculated to Fat, Moisture and Sugar Free Sample	Percentage of Ash Soluble in Water.	
					By Centri- fuge.	By Contin- uous Extraction, 16 hrs.						
JNO. TALBOT, INSPECTOR.												
Perfection Cocoa	5.26	1.69	6.20	4.17	25.25			7.45		32	47867	
"	6.12	1.62	6.25	3.05	23.70			8.35		26	47869	
"	5.19										48080	
Breakfast Cocoa	5.22										48083	
"	1.24	0.41		1.95	23.89		57.14		6.89	33	48086	
Fry's Chocolate Powder	1.28										48095	
Pure Breakfast Cocoa	5.45										48096	
A. C. LARIVIERE, INSPECTOR.												
"Bis" Brand	6.67	4.93	8.70	3.95	30.55			10.17		74	48096	
"	8.20	6.72	10.05	3.90	27.26	28.15		11.90		82	48097	
"	5.14										48098	
"	5.52	4.13	8.15	4.45	31.25			8.39		75	48099	
"	5.74	1.89	6.85	3.50	24.80	25.30		8.01		33	48610	
"	3.26										48611	
"	2.93	1.11	3.50	1.95	54.35			6.70		38	48612	
Fry's Diamond Sweet Cho- colate.	0.92	0.33		1.11	22.50		60.90		5.94		48613	
"	3.18										48614	
Lowney's Premium.	3.24										48615	
R. W. FLETCHER, INSPECTOR.												
"	5.35	2.00	6.40	4.58	27.95			7.93		37	44121	
"	5.25										44122	
"	5.06										44123	
"	8.69	7.14	11.30	5.67	23.65	24.25		12.30		82	44124	
"	8.25	6.75	11.15	3.34	27.55			11.94		82	44125	

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 CALGARY—

1912.							
Mar.	6	Chocolate...	44126	Capitol Mercantile Co., Edmonton.	1 tin.	50	Lowney's, Montreal.
"	7	"	44127	Hudson Bay Co., Edmonton.	1 "	25	Cadbury, Bourneville, Eng.
"	8	"	44128	Hallier & Aldridge, Edmonton.	3 tins.	50	Lowney's, Montreal.
"	8	"	44129	J. H. Morris Co., Ltd., Edmonton.	1 tin.	25	"
"	8	"	44130	City Grocery, Edmonton.	1 "	25	"

DISTRICT OF NELSON—

Feb.	13	Chocolate...	48489	England & Sons, Kamloops.	$\frac{1}{2}$ lb.	25	D. Ghirardette, San Francisco.
"	13	"	48490	"	3 tins.	30	W. M. Lowney Co., Montreal.
"	13	Cocoa	48491	"	$\frac{1}{2}$ lb.	20	The Cowan Co., Toronto.
"	13	"	48492	"	$\frac{3}{4}$ "	30	J. S. Fry & Sons, Bristol, Eng.
"	13	Chocolate...	49607	Stevens & Allan, Kamloops.	$\frac{1}{2}$ "	25	W. M. Lowney Co., Montreal.
"	13	"	49608	"	$\frac{1}{2}$ "	25	W. Baker & Co., Dorchester, Mass.
"	13	"	49609	"	$\frac{1}{2}$ "	25	The Cowan Co., Toronto.
"	13	Cocoa	49612	Wilson Grocery Co., Kamloops.	$\frac{1}{2}$ "	35	H. DeJong, Wormerveer, Holland.
"	13	"	49613	"	$\frac{1}{2}$ "	40	C. J. Van Houten & Son, Weesp, Holland.
"	13	"	49614	"	$\frac{1}{2}$ "	35	W. M. Lowney Co., Montreal.

DISTRICT OF VANCOUVER—

Feb.	13	Cocoa	38275	J. Graham, Milner, B.C.	3 pks.	30	Fry & Co., London, Eng.
"	13	"	38276	Burrows & Carnecross, Cloverdale, B.C.	$\frac{1}{2}$ lb.	30	Cowan, Ltd., Toronto.
"	13	"	38277	H. V. Parr, Cloverdale, B.C.	$\frac{1}{2}$ "	55	Van Houten & Co.
"	14	"	38278	Lillie's Cash Grocery, Chilliwack, B.C.	$\frac{1}{2}$ "	50	A. Dreissen, Rotterdam.
"	14	"	38279	B. T. Malcolm, Chilliwack, B.C.	3 tins.	75	Jos. Tetley & Co., London, Eng.

SESSIONAL PAPER No. 14
AND CHOCOLATES.

RESULTS OF ANALYSIS.

Inspector's Report.
(Is not an expression
of opinion).

On Air-Dry Original Material.												
Total.	Ash.		Alkalinity of Ash as to Acid per 100 gm. Chocolate and Cocoa.	Moisture.	Fat.			Cane Sugar.	Total Ash calculated to Fat and Moisture Free Sample.	Total Ash calculated to Fat, Moisture and Sugar Free Sample.	Percentage of Ash Soluble in Water.	No. of Sample.
	By Centn.	By Centn.			By Centn.	By Centn.	By Centn.					

Concluded.

	P. C.	P. C.		P. C.	P. C.	P. C.	P. C.	P. C.	P. C.	P. C.	
	3.04	1.02		1.76	16.30		43.87		7.98	33	44126
	1.65	1.04		1.04	7.35		69.50		7.16	63	44127
	2.59	0.88		1.78	16.20		47.95		7.60	34	44128
	2.64	0.88		1.71	15.35		48.19		7.58	33	44129
	3.20	1.07		1.87	16.75		42.37		8.20	33	44130

THOS. PARKER, INSPECTOR.

	2.98	2.06		1.80	15.00		54.42		10.36	69	48489
	2.40	0.99		1.91	18.20		46.30		7.15	37	48490
	2.34	0.95	3.40	2.89	11.20		45.56		5.80	41	48491
	1.58	0.50	1.95	3.33	14.25		38.33		3.60	32	48492
	3.31										49607
	3.26										49608
	3.09	1.17	3.61	1.51	54.95			6.94		38	49609
	7.51	6.07	10.49	4.40	27.15			11.19		89	49612
	8.05	6.58	10.50	4.47	28.95			12.10		82	49613
	5.59	2.29	6.80	4.17	29.60			7.43		41	49614

J. F. POWER, INSPECTOR.

Manufactured with Cocoa carefully selected for quality and flavour Guaranteed. Absolutely pure.	1.67										38275
Guaranteed pure soluble Cocoa.	5.64	1.84	6.30	4.13	23.90			7.84		33	38276
.....	7.95	6.47	10.40	4.34	28.95			11.92		81	38277
.....	6.80	4.85	9.10	4.82	27.70			10.08		71	38278
Absolutely pure and soluble	8.45	6.87	11.00	7.08	24.20			12.30		81	38279

BULLETIN No. 243—COCOAS

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 VANCOUVER—

1912.							
Feb.	15	Chocolate.	38280	Des Brisay, General Stores, Mission Jct., B.C.	$\frac{1}{2}$ lb.	25	D. Ghirardelli, San Francisco, Cal.
"	15	"	38281	C. A. Welsh, New Westminster, B.C.	$\frac{1}{2}$ "	25	Lowney & Co., Toronto.
"	15	"	38282	London Muffin Co., Smythe St., Vancouver, B.C.	$\frac{1}{2}$ "	30	C. Charlesworth, Water St., Van.

DISTRICT OF VICTORIA—

Feb.	27	Cocoa.	47691	Windsor Grocery Co., Victoria, B.C.	3 pks	30	The Cowan Co., Ltd., Toronto.
"	28	"	47692	The West End Grocery Co., Ltd., Victoria, B.C.	3 "	75	Ridgways, Ltd., London, Eng.
"	29	"	47693	D. H. Ross, "	3 "	25	J. S. Fry, London, Eng.
Mar.	1	"	47694	Copas & Young, Victoria, B.C.	3 "	75	Rowantree & Co., Ltd., York, Eng.
"	1	"	47695	Wm. B. Hall, Victoria, B.C.	$\frac{1}{2}$ lb.	30	H. D. Jong, Wormerveer, Holland.
"	27	Chocolate.	47696	Windsor Grocery Co., Victoria, B.C.	1 "	50	Walter Baker & Co., Dorchester, Mass.
"	28	"	47697	The West End Grocery Co., Ltd., Victoria, B.C.	1 "	35	Dom. Chocolate Works, Toronto.
"	29	"	47698	D. H. Ross & Co., Victoria, B.C.	1 "	35	D. Ghirardellis, San Francisco, Cal.
Mar.	1	"	47699	Copas & Young, Victoria, B.C.	$\frac{1}{2}$ "	25	The Cowan Co., Ltd., Toronto.
"	6	"	47700	Harrison & McDonald, Victoria, B.C.	$\frac{1}{2}$ "	25	D. Ghirardellis, San Francisco, Cal.

SESSIONAL PAPER No. 14
AND CHOCOLATES.

RESULTS OF ANALYSIS.

Inspector's Report. (Is not an expression of opinion).	On Air-Dry Original Material.								Total Ash calculated to Fat and Moisture Free Sample.	Total Ash calculated to Fat, Moisture and Sugar Free Sample.	Percentage of Ash Soluble in Water.	No. of Sample.
	Ash.		Alkalinity of Ash as % Acid per 1 gram Chocolate and Cocoa.	Moisture.	Fat.		Cane Sugar.					
	Total.	Soluble in Water.			By Centri- fuge.	By Contin- uous Extrac- tion 16 hrs.						

Concluded.

	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
Strictly pure..	2.77	1.96	.	1.92	14.20		58.50		10.91	71	38280
Absolutely pure....	2.66	0.95	.	2.55	15.20		47.80		7.72	36	38281
.....	2.84	2.00	.	2.15	14.75		56.08	.....	10.51	70	38282

D. O'SULLIVAN, INSPECTOR.

.....	5.05										47691
"Ridgways".....	6.08	4.45	8.10	5.71	29.70				9.41	73	47692
Frys.....	1.77										47693
Rowantrees.....	7.74	6.40	10.40	4.80	28.00				11.52	83	47694
De Jong's.....	7.76	5.47	10.20	6.45	26.95				11.65	70	47695
.....	3.32										47696
Canadian Beaver Chocolate	0.74	0.32		1.50	24.70		52.54		3.48	43	47697
"Eagle" Brand.....	1.49	0.55		1.55	24.35		58.37		9.60	37	47698
"Cowans Perfection".....	3.86	1.48	4.98	4.60	34.10				6.30	38	47699
Ground Chocolate.....	3.02	2.05		2.89	15.40		55.18		11.38	67	47700

APPENDIX H.

BULLETIN No. 244—FRUIT JAMS.

OTTAWA, December 6, 1912.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister of Inland Revenue.

SIR,—I have the honour to hand you a report upon 158 samples purchased as jams in February and March of the present year. The results of analysis may be summarized thus:—

Addition of fruit juice acknowledged	18
Preservative or dye present	39
No explanatory statement	78
Sold as compound	3
Samples spoiled or broken	2
Containing glucose without acknowledgement	18
Total	158

Standards for fruit products were established under section 26 of the Adulteration Act, in October of this year, coming into force November 25, 1912. Circular G. 1044, containing the Order in Council in question, is as follows:—

FRUIT AND FRUIT PRODUCTS.

1. Fruits are the clean, sound, edible, fleshy fructifications of plants, distinguished by their sweet, acid and ethereal flavours.

2. Dried fruit is the clean, sound product made by drying matured properly prepared fresh fruit in such a way as to take up no harmful substances; and conforms in name to the fruit used in its preparation.

3. Evaporated fruit is dried fruit in whose preparation artificial heat has been employed.

4. Evaporated apples shall contain not more than 27 per cent of moisture.

5. Canned fruit is the sound product made by sterilizing clean, sound, properly matured and prepared fresh fruit, by heating with or without sugar, and keeping in suitable clean, hermetically sealed containers; and conforms in name to the fruit used in its preparation.

6. Preserve is the sound product made from clean, sound, properly matured and prepared fresh fruit and sugar syrup, with or without spices and vinegar, and conforms in name to the fruit used in its preparation.

7. Jam, marmalade, is the sound product made from clean, sound, properly matured and prepared fresh fruit or fruit pulp and sugar, with or without spices or vinegar, by boiling to a semi-solid consistence: and conforms in name to the fruit used in its preparation.

8. Fruit butter is the sound product made from fruit juice, and clean, sound, properly matured and prepared fruit, boiled to a semi-solid mass of homogeneous consistence, with or without the addition of sugar and spices or vinegar and conforms in name to the fruit used in its preparation.

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9. Jelly, fruit jelly, is the sound, semi-solid gelatinous product made by boiling clean, sound, properly matured and prepared fresh fruit with water, concentrating the expressed and strained juice, to which sugar is added, and conforms in name to the fruit used in its preparation.

10. When jam, marmalade, fruit butter or jelly contains other fruit or fruit juice than that which gives its special name to the article, the fact of the presence of such other fruit shall be stated upon the label, in lettering as large and as distinct as that used in naming the fruit principally present. This requirement does not, however, apply to the use of fruit juice, up to the amount of ten (10) per cent of the weight of the jam, etc., used instead of water in the manufacture of the jam, etc.

11. When the sugar in preserve, jam, marmalade, fruit butter or jelly is wholly or partially replaced by glucose, or by any other substitute for sugar, the fact of such substitution shall be stated upon the label in plain lettering.

The standards above defined take effect on November 25, 1912.

Of course the samples now reported are not to be judged by the Standards above given.

After this date, it will be necessary to state the presence of glucose upon the label, whenever this article is present. Jams made with mixed fruits must also be properly described; although the addition of fruit juice up to ten per cent is not prohibited. Such juice, replacing water in the manufacture of the jam, doubtless adds to the value of the jam, and it is pleasing to note that in 18 samples examined, the maker has declared the presence of fruit juice.

Some makers of jam claim that the addition of small amounts of glucose improves the article. The question may be considered an open one; but it is fair to the purchaser that he should be advised of the presence of glucose, and this is now required by our standards. Several manufacturers who formerly used glucose, have given up its use within a year or two; and in such cases, it is only in their older product that we find glucose.

Under the circumstances I do not feel called upon to describe any of the samples now reported, as adulterated; although, had now existing standards been in force at the time of inspection, 18 samples would have been so described.

I beg to recommend the publication of this report as Bulletin No. 244.

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.		Inspector's Report (Is not an expression of opinion).	Solids	
				Quantity.	Cents.	Manufacturer.	Furnisher.		Insoluble.	
DISTRICT OF NOVA SCOTIA—										
1912.										p. c.
Feb. 19	Fruit Jam	47031	Wentzells, Ltd., Halifax, N.S.	3 jars	60	W. P. Hartley, London, Eng	Manufacturers			1.52
" 20	"	47032	J. L. Archibald & Son, Halifax, N.S.	3 "	75	Cairns, Paisley, Scot.	Jno. Tobin & Co., Halifax, N.S.			2.77
" 21	"	47033	J. F. Crowe & Co., Ltd., Halifax, N.S.	3 "	56	C. E. Morton, London, Eng	Manufacturers			1.92
" 22	"	47034	B. H. Dodge & Co., Kentville, N.S.	3 "	75	Wagstaffe, Hamilton, Ont.	H. R. Silver, Halifax, N.S.			2.34
" 23	"	47035	De Wolfe & Lamont, Kentville, N.S.	3 "	75	Aylmer Canning Co., Aylmer, Ont.	R. B. Seaton & Co., Halifax, N.S.			6.81
" 26	"	47036	Bauld Bros., Ltd., Halifax, N.S.	3 "	20	Chivers & Sons, Ltd., Cambridge, Eng.	Manufacturers			4.20
" 26	"	47037	John Tobin & Co., Halifax, N.S.	3 "	45	Aylmer Canning Co., Aylmer, Ont.	"			5.06
" 26	"	47038	R. B. Caldwell, Halifax, N.S.	3 "	35	E. D. Smith, Winoua, Ont.	"			2.86
" 26	"	47039	A. & W. Smith & Co., Halifax, N.S.	3 "	45	Simcoe Canning Co., Simcoe, Ont.	"			3.41
Mar. —	"	47040	H. R. Silver, Halifax, N.S.	3 "	nil	Wagstaffe, Hamilton, Ont.	"			2.63

DISTRICT OF PRINCE EDWARD ISLAND—

Feb. 7	Fruit Jam	46176	Auld Bros., Charlottetown, P.E.I.	3 pkgs	45	T. Upton Co., Ltd., Hamilton, Ont.				*
" 7	"	46177	"	3 "	60	Crosse & Blackwell, London, Eng.				3.80
" 15	"	46178	Brace McKay Co., Ltd., Summerside, P.E.I.	3 "	60	Jno. Buchanan & Bro., Ltd., Glasgow.				5.30
" 16	"	46179	R. T. Holman, Ltd., Summerside, P.E.I.	3 "	60	Aylmer Canning, Hamilton, Ont.				6.00
" 16	"	46180	Waugh & Steves, Summerside, P.E.I.	3 "	1.05	Duerr's, Manchester, Eng.				0.85
" 19	"	46181	Beer & Goff, Ch'town, P. E. I.	3 "	75	J. A. Sharwood, Ltd., London, Eng.				4.08

* Not analyzed.

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FRUIT JAMS.

Results of Analysis.

per cent.		Polarization (normal solution).			Residual cane sugar	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Soluble.	Total.	Water.	Direct.	Invert.								Difference.
p. c.	p. c.	p. c.			p. c.	p. c.					
69.62	71.14	28.86	+19.2	23.4	42.6	32.11	None	None	Straw-berry tissues	47031	Genuine. Added fruit juice acknowledged on label.
71.20	73.97	26.03	+25.2	23.3	48.5	36.50				47032	Genuine.
65.70	67.62	32.38	3.2	-21.2	24.4	18.40			Plum tissues	47033	
62.37	64.71	35.29	4.4	-20.5	24.9	18.77	Salic acid	Pre-sent.	Straw-berry tissues	47034	Contains preservative and is dyed otherwise genuine.
62.37	69.18	30.82	+2.8	12.6	15.4	11.59	None	None	Rasp-berry tissues	47035	Contains glucose. Is an old sample.
79.75	74.95	25.05	17.9	22.8	6.7	30.68			Green gage tissues and stones	47036	Genuine. Small addition of fruit pectin acknowledged on label.
79.70	75.76	24.24	+48.9	22.0	70.9	53.5			Peach tissues	47037	Genuine.
61.10	66.96	33.04	+10.0	26.7	30.7	23.14			Straw-berry tissues	47038	
66.00	69.41	30.59	11.7	-21.9	33.6	25.33	Salic acid trace.		Rasp-berry tissues	47039	trace salicylic acid.
67.37	70.04	30.00	+11.9	23.6	65.5	44.37	None	Pre-sent.		47040	Contains dye. Otherwise genuine.
WM. A. WEEKS, INSPECTOR.											
										46176	Sold as compound.
68.90	72.70	27.30	0.4	-22.2	22.6	17.04	None	None	Plum & rasp-berry, etc., tissues	46177	Genuine.
65.70	71.00	29.00	+5.0	20.8	15.8	11.90			Plum tissues & stones	46178	
62.62	68.62	31.38	+9.3	-20.6	29.9	22.3			Rasp-berry tissues	46179	
64.50	65.35	34.65	+12.8	-22.0	34.8	26.23			Straw-berry tissues	46180	Genuine. Apple jelly acknowledged on label.
66.37	70.45	29.55	7.3	-21.4	28.7	21.63			Rasp-berry tissues	46181	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).	Solids	
				Quantity.	Cents.	Manufacturer.	Furnisher.		Insoluble	
DISTRICT OF PRINCE EDWARD ISLAND—										
1912.										p. c.
Feb. 19	Fruit Jam.	46182	Beer & Goff, Ch'town, P. E.I.	3 pkgs	75	Wagstaffe, Lt1 Hamilton, Ont.				1 26
" 27	"	46183	Coffin & Co., Ch'town, P. E.I.	3 "	60	Simcoe Canning Co., Simcoe, Ont.				7 44
" 27	"	46184	"	3 "	45	R. F. Madigan & Co., Ch'town, P.E.I.				†
" 27	"	46185	Joseph Crabbe, Ch'town, P. E.I.	3 "	60	Lipton's, England.				2 34
DISTRICT OF NEW BRUNSWICK—										
Feb. 6	Fruit jam.	45621	Baird & Peters, St. John, N.B.	3 jars.	25	The Lynn Valley Canning Co., Simcoe, Ont.		Sold as Compound.		*
" 7	"	45622	2 Barkers, Ltd. St. John, N.B.	3 "	54	Clarke Nickolls & Coombs, London, Eng.		Plum		3 25
" 14	"	45623	Pudington, Wetmore Morrison, Ltd., St. John, N.B.	3 "	20	Chivers & Sons, Ltd., Histon, Eng.		Strawberry		3 71
" 27	"	45624	P. F. McKenna, St. Stephen, N.B.	3 "	75	Wm. P. Hartley, London, Eng.		Raspberry		2 70
" 27	"	45625	F. E. Ross, St. Stephen, N.B.	3 "	45	Lea's, Ltd., Simcoe, Ont.		Strawberry		5 53
Mar. 5	"	45626	G. T. Whelpley Estate, Fredericton, N.B.	3 "	75	E. D. Smith, Winona, Ont.		Peach		3 00
" 7	"	45627	D. R. Bedell, Andover, N. B.	3 "	75	John Stephen's Son & Co., Ltd., Gloucester, Eng.		Raspberry		2 92
" 8	"	45628	Geo. T. Baird Co., Ltd., Perth, N.B.	3 "	66	Macdonachie Bros., Ltd., London, Eng.		Raspberry and Currant.		3 50
" 13	"	55629	D. A. McBeath, Moncton, N. B.	3 "	75	E. D. Smith, Winona, Ont.		Strawberry		2 60
" 14	"	45630	George Tables, Newcastle, N.B.	3 "	75	Hudon, Hebert et Cie, Montreal.		Strawberry "Gazelle" Brand.		4 40

† Both samples fermenting and partly leaked out.

* Sold as compound.

SESSIONAL PAPER No. 14

FRUIT JAMS.

Results of Analysis.

per cent.		Water.	Polarization (normal solution.)			Residual cane sugar.	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Soluble.	Total.		Direct.	Invert.	Difference.							
<i>Concluded.</i>												
p. c.	p. c.	p. c.			p. c.	p. c.						
65.60	66.86	33.14	1.6	22.0	23.6	17.80	47.80	None	Pre- sent	Goose- berry	46182	Genuine.
64.37	71.81	28.19	+24.0	-19.7	13.7	32.94	31.43	Salic- ylic acid trace	None	Rasp- berry tissues	46183	Trace salic ylic acid.
											46184	Samples spoiled.
69.59	71.84	28.16	+16.0	22.0	38.6	24.10	40.40	None	None	Straw- berry tissues	46185	Genuine.
J. C. FERGUSON, INSPECTOR.												
											4621	Sol. as compound.
68.00	71.25	28.75	27.9	3.8	24.1	18.16	49.84	None	None	Plum- tissues & a very low sto- nes.	4622	Contains glucose.
67.50	71.21	28.79	26.4	21.7	48.1	36.26	31.24			Straw- berry tissues	4623	Genuine. Fruit jelly acknowledged on the label.
70.37	73.07	26.93	10.7	23.0	33.7	25.40	44.97			Rasp- berry tissues	4624	Genuine. Fruit juice acknowledged on the label.
55.75	61.28	38.72	4.3	17.0	21.3	16.05	39.70	Ben- zoic acid trace.		Straw- berry tissues.	4625	Trace of preservative; otherwise genuine.
62.25	65.25	34.75	20.6	18.8	39.4	29.70	34.55	None		Peach- tissues	4626	Genuine.
68.90	71.82	28.18	5.0	22.5	27.5	20.73	48.17			Rasp- berry tissues	4627	Genuine. Fruit juice acknowledged on the label.
67.70	71.20	28.80	18.2	22.0	3.8	2.86	64.84			Rasp- berry & currant tissues	4628	Genuine.
61.37	66.97	33.03	12.9	21.4	8.5	6.41	57.96			Straw- berry tissues	4629	
66.62	71.02	28.98	25.7	22.2	47.9	36.11	30.51				45630	

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

DISTRICT OF QUEBEC—

1912.										p. c.
Feb.	7	Fruit Jam.	37378	Arthur Drolet, 714 Rue St. Valier, Que.	3 pkgs	15	Chivers & S'ns, Histon, Cambridge, Eng.	J. B. Renaud Quebec.		3.41
"	7	"	37379	"	3 "	15	"	"		3.68
"	7	"	37380	"	3 "	75	Cairns, Paisley, Scotland	Hudon & Herbert, Montreal.		3.16
"	7	"	37381	"	3 "	75	"	"		1.56
"	7	"	37382	"	3 "	75	"	"		3.18
"	7	"	37383	"	3 "	75	"	"		4.15
"	7	"	37384	"	3 "	75	Aylmer Canning Co., Hamilton.	Langlois & Paradis.		7.28
"	7	"	37385	"	3 "	75	"	"		6.79
"	7	"	37386	"	3 "	75	Ross and Laflamme.	Manufacturers.		2.90
"	7	"	37387	"	3 "	105	Duerr's, Manchester, Eng.	J. B. Renaud Quebec.		1.33

DISTRICT OF ST. HYACINTHE—

Feb.	20	Fruit jam.	39023	J. A. Baraby, St. Jean.	3 jars.	75	Robertson, Paisley, Scotland.	Blackberry		2.11
"	20	"	39024	G. Dupuis, St. Jean.	3 "	90	Vendor	Strawberry		2.31
"	21	"	39025	Magog Co-op. Society.	3 "	60	Jos. Lamoignon, Montreal.	American Pure Food Co., Montreal.		*
"	22	"	39026	Therault & Leauc, Sherbrooke.	3 "	60	Aylmer Canning and Preserving Co., Hamilton.	Plum		5.88
Mar.	20	"	39027	E. J. Pearson, Richmond.	3 "	75	J. Robertson & Sons, Manchester, Eng.	Strawberry		1

Not analysed.

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FRUIT JAMS.

Results of Analysis.

per cent.		Polarization (normal solution).			Residual cane-sugar.	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.	
Soluble.	Total.	Water.	Direct.	Invert.								Difference.
F. X. W. E. BELAND, INSPECTOR.												
p. c.	p. c.	p. c.			p. c.	p. c.						
69.87	73.28	26.72	23.6	23.0	46.6	35.13	34.74	None	None	Straw-berry tissues	37378	Genuine; addition of fruit jelly acknowledged.
69.30	72.98	27.02	29.0	23.0	43.0	32.41	36.89			Rasp-berry tissues	37379	
68.75	71.91	28.09	13.7	22.5	8.8	6.63	62.12				37380	
64.50	66.06	33.91	9.7	20.8	30.5	23.00	41.50			Apricot tissues	37381	
62.12	65.30	34.70	14.2	19.8	5.6	4.22	57.90			Black-currant tissues	37382	
59.62	63.77	36.23	4.4	18.9	23.3	17.56	12.60			Plum tissues & stones	37383	
65.11	72.39	27.61	23.0	19.4	42.4	31.8	33.21			Straw-berry tissues	37384	
61.26	68.05	31.45	21.0	16.2	37.2	28.0	33.36			Rasp-berry tissues	37385	Samples received broken and partly leaked out.
68.62	71.52	28.48	11.6	21.7	32.7	24.65	43.97			Fig and lemon tissues	37386	Genuine.
66.50	67.83	32.17	17.3	22.8	40.1	30.23	36.27			Straw-berry tissues	37387	Genuine. Apple jelly acknowledged.
J. C. ROULEAU, INSPECTOR.												
71.00	73.11	26.89	19.6	24.7	44.3	33.40	37.6	None	None	Black-berry tissues	39023	Genuine.
44.62	46.93	53.07	9.0	9.7	18.7	14.10	30.52			Straw-berry tissues	39024	A preserved fruit not a jam. Genuine.
											39025	Sold as compound.
65.10	70.98	29.02	9.5	19.6	29.1	21.9	43.20	None	None	Plum tissues and stones	39026	Genuine.
69.10	70.74	29.26	20.4	22.5	42.9	32.34	36.76	Salic-lyclic acid.	slightly dyed	Straw-berry tissues	39027	Contains Salicylic acid and is dyed. Otherwise genuine.

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

DISTRICT OF ST. HYACINTHE—

1912.										p. c.
Mar.	22	Fruit jam	39028	Basinet & Brodeur, St. Hyacinthe.	3 jars.	75	L. Noel & Sons, London, Ltd. S. E.		Raspberry	4.74
"	22	"	39029	J. B. J. Phaneuf, St. Hyacinthe.	3 "	90	E. Chaput, L. Egypte.		Strawberry	7.48
"	23	"	39030	A. Brodeur, St. Hyacinthe.	3 "	75	Chivers & Sons Ltd., Eng.		Raspberry	2.54
"	23	"	39031	J. B. St. Pierre, St. Hyacinthe.	3 "	75	A. Cairns & Sons, Paisley, Scotland		Peach	1.87

DISTRICT OF MONTREAL—

Feb.	13	Fruit jam	40811	L. Chaput, Fils et Cie., Ltd., De Brisbois St., Montreal	3 jars.	53	Aylmer Canning Co., Ltd.		Raspberry	5.50
"	13	"	40812	"	3 "	54	E. D. Smith		"	5.11
"	13	"	40813	"	3 "	52	T. Upton Co., Ltd.		"	6.46
"	13	"	40814	Mrs. Luke, 38 Victoria St., Montreal.	3 "	30	Vendor		Plum	5.53
"	13	"	40815	"	3 "	45	"		Black Currant	6.90
"	13	"	40816	"	3 "	45	"		Strawberry	3.57
"	13	"	40817	St. Louis Preserving Co., Ltd., Montreal.	3 "	60	Vendors		"	1.33
"	13	"	40818	"	3 "	60	"		Raspberry	6.90
"	13	"	40819	"	3 "	60	"		Plum	1.66
"	14	"	40820	W. Schwartz, 100 St. Catherine Street West, Montreal.	3 "	60	Aylmer Canning Co., Ltd.		"	6.45

SESSIONAL PAPER No. 14

FRUIT JAMS.

Results of Analysis.

per cent.		Polarization (normal solution.)			Residual cane sugar	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Soluble	Total.	Water.	Direct.	Invert.								Difference.
65.90	70.64	29.36	0.6	15.2	11.6	11.00	54.90	None	None	Rasp- berry tissues	39028 Contains glucose. Old sample.
50.75	58.23	41.77	6.7	16.0	9.3	7.01	43.74				39029 Genuine.
68.62	71.16	28.84	5.7	22.0	27.7	20.88	47.44				39030 Genuine. Fruit jelly added and acknow- ledged.
67.87	69.71	30.26	12.2	22.6	31.8	26.23	41.64			Peach tissues	39031 Genuine.
<i>Concluded.</i>											
p. c.	p. c.	p. c.			p. c.	p. c.					
59.10	61.60	35.40	8.8	19.5	28.3	21.0	38.10	None	None	Rasp- berry tissues	40.11 Genuine.
62.00	67.11	32.89	7.8	21.2	29.0	21.86	40.14	"	"		40812 "
56.87	63.33	36.67	15.9	18.9	34.8	26.23	30.64				40813
55.87	61.40	38.60	13.9	15.1	1.2	0.90	54.97	"	"	Plum tissues	40814 "
55.37	62.27	37.73	11.1	16.6	5.5	4.14	51.23			Black Cur- rant tissues	40815
59.50	63.07	36.93	13.6	18.5	4.9	3.70	55.80	"	"	Straw- berry tissues	40816
68.25	69.58	30.42	67.6	24.8	42.8	32.25	36.00	Sali- cyclic acid.	"	"	40817 Contains glucose and a preservative.
61.80	68.70	31.30	54.5	21.4	33.4	25.18	36.02	"	"	Rasp- berry tissues	40818
68.90	70.50	29.50	47.8	21.4	26.4	19.90	49.00	"	"	Plum tissues only.	40819 "
60.40	66.95	33.05	9.6	15.2	24.8	18.74	41.70	None	"	Plum tissues and stones	40820 Contains glucose. Old sample.

J. J. COSTIGAN, INSPECTOR.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).	Solids Insoluble.
				Quantity.	Cents.	Manufacturer.	Furnisher.		
DISTRICT OF OTTAWA—									
1912.									p. c.
Feb. 5	Fruit Jam..	50141	The A. B. Scott Co., Smith's Falls.	3 jars.	105	Duerr's, England.	Robertson & Nicolle, Smith's Falls.	Raspberry Warranted Pure.	1'00
" 7	" ..	50142	A. Edwards, Cornwall.	3 "	45	Lea's, Ltd, Simcoe, Ont	Mfrs.....	Strawberry absolutely pure.	3'38
" 9	" ..	50143	John Simpson & Son, Alexandria.	3 "	75	Robertson's Paisley, Scotland.	Mathewson's Sons, Montreal.	Green gage...	4'54
" 12	" ..	50144	R. Richardson, Preston St., Ottawa.	3 "	75	E. D. Smith, Winona, Ont	Unknown...	Strawberry....	4'13
" 13	" ..	50145	P. J. Campbell Renfrew.	3 "	45	Simcoe Canning Co. Simcoe, Ont.	W. J. Craig, Kingston.	"	4'71
" 19	" ..	50146	Jos. P. Valiquette, Dalhousie St., Ottawa.	3 "	54	Dom. Cannors Ltd., Montreal.	Major's Ltd. Ottawa.	Peach.....	5'67
" 19	" ..	50147	L. Malette, Dalhousie St., Ottawa	3 "	60	John Gray & Co., Ltd., Glasgow.	Mfrs.	Strawberry....	1'37
" 19	" ..	50148	Jas. Mundy, Grocer, Ottawa.	3 "	75	C. & E. Morton London, Eng	"	Black Currant	3'14
" 19	" ..	50149	" ..	3 "	75	" ..	"	Red Currant..	3'92
" 20	" ..	50150	Bryson Graham Ltd, Ottawa.	3 "	75	Cairns, Paisley, Scotland	"	Plum.....	2'86

DISTRICT OF KINGSTON—

Feb. 5	Fruit Jam..	49541	H. M. Stover, Kingston.	3 pkgs	45	Simcoe Canning Co.	.....	Strawberry....	3'54
" 5	" ..	49542	J. Lee, Kingston	3 "	75	Millar Co. Ltd. Belfast, Ireland.	.....	Raspberry....	4'23
" 5	" ..	49543	W. J. Nesbitt, Kingston.	3 "	75	J. Wagstaffe, Ltd.	.....	" .....	4'25
" 5	" ..	49544	H. A. Smith, Kingston.	3 "	35	E. D. Smith, Winona, Ont	.....	Crab apple....	Trace
" 6	" ..	49545	Wm. Davies, Kingston.	3 "	60	Chivers & S'ns, Histon, Cambridge, Eng.	.....	Strawberry....	2'65
" 6	" ..	49546	A. Glover, Kingston.	3 "	75	Crosse & Blackwell, London, Eng.	Raspberry....	3'00

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FRUIT JAMS.

Results of Analysis.

per cent.			Polarization (normal solution).			Residual cane sugar	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Soluble.	Total.	Water.	Direct.	Invert.	Difference.							
J. A. RICKEY, INSPECTOR.												
p. c.	p. c.	p. c.				p. c.	p. c.					
65.37	66.37	33.63	3.6	22.0	18.4	13.87	51.50	None.	None	Strawberry tissues.	50141	Genuine. Apple jelly acknowledged.
58.87	62.25	37.75	+4.3	18.1	22.4	16.89	41.98	Benzozic acid.	"	"	50142	Contains a preservative. Otherwise genuine.
64.37	68.91	31.09	+6.4	18.7	25.1	18.92	45.45	None.	"	Plum tissues.	50143	Genuine.
58.75	62.88	37.12	11.0	18.6	7.6	5.73	53.02	"	"	Strawberry tissues.	50144	"
67.60	72.31	27.69	39.3	-23.1	62.4	47.07	20.53	Salicylic acid.	"	"	50145	Preservative. Otherwise genuine.
72.00	77.67	22.31	-39.0	22.0	61.0	45.9	26.10	None.	"	Peach tissues.	50146	Genuine.
67.12	68.49	31.51	5.3	21.4	16.1	12.11	51.98	"	"	Strawberry tissues.	50147	"
68.37	71.51	28.49	3.2	22.0	25.2	19.00	49.37	"	"	Currant tissues.	50148	"
68.50	72.42	27.58	+1.4	23.1	21.5	18.17	50.03	"	"	"	50149	"
66.75	69.61	30.39	-5.3	20.9	26.2	19.75	47.00	"	Present.	Plum tissues & stones.	50150	Dyed. Otherwise genuine.
IAS. HOGAN, INSPECTOR.												
69.75	73.29	26.71	-49.5	-23.4	63.9	48.17	21.58	Salicylic acid.	None	Strawberry tissues.	49541	Preservative present. Otherwise genuine.
66.87	71.10	28.90	-5.7	9.7	15.4	11.61	55.26	None.	"	Raspberry tissues.	49542	Contains glucose.
66.87	71.12	28.88	-18.6	23.1	41.7	31.44	35.43	"	Present.	Raspberry & Currant tissues.	49543	Dyed. Otherwise genuine.
70.12	70.12	29.88	+12.1	26.7	38.8	28.95	41.17	"	None	Crab apple jelly.	49544	Genuine.
70.37	73.02	26.98	+17.3	-23.0	40.3	30.37	40.00	"	"	Strawberry tissues.	49545	Genuine. Fruit jelly acknowledged.
64.10	67.10	32.90	+6.1	-21.2	27.3	20.58	43.52	"	"	Raspberry tissues.	49546	Genuine.

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

DISTRICT OF KINGSTON—

1912.									
Feb.	6	Fruit Jam..	49547	J. Gilbert, Kingston.	3 pkgs	75	Clark, Nickells & Coombs, London.	Black Currant	2 74
"	7	"	49548	H. E. Fairfield, Belleville.	3 "	30	Lea's, Simcoe.	Strawberry....	3 85
"	7	"	49549	J. Hilton, Belleville.	3 "	60	J. Robertson & Sons, Paisley.	Raspberry	2 52
"	7	"	49550	Geo. Pearson, Belleville.	3 "	105	Duerr's Manchester.	Strawberry....	1 28

DISTRICT OF TORONTO—

Feb.	5	Fruit Jam	49317	The Canada Preserving Co., Pinest., Hamilton.	3 jars.	50	Vendors.....	Graham's Pure Raspberry Jam.	5 18
"	5	"	49318	The T. Upton Co., Ltd., Hamilton.	3 "	50	"	Upton's Pure Strawberry Jam.	1 80
"	5	"	49319	Wagstaffes, Ltd., Hamilton.	3 "	60	"	Wagstaffe's fine Old English Pure Peach Jam.	1 80
"	5	"	49320	Aylmer Canning Co., Ltd., Hamilton.	3 "	38	Simcoe Canning Co., Simcoe.	Strawberry. Guaranteed absolutely pure.	3 24
"	6	"	49322	E. D. Smith, Winona.	3 "	42	Vendor.....	Raspberry....	2 20
"	6	"	49323	Bell Fruit Farms, Ltd., Grimsby.	3 "	45	Vendors.....	Bell Brand Raspberry Jam.	6 32
"	14	"	49324	The T. A. Lytle Co., Ltd., 106 Sterling rd., Toronto.	3 "	48	"	Pure Strawberry Jam.	3 73
"	21	"	49325	T. H. Brown, Collingwood	3 "	30	Lea's, Ltd., Simcoe.	Absolutely Pure Strawberry Jam.	3 60
"	28	"	49326	Frank Giles, Yonge st., Toronto.	3 "	60	Mrs. A. E. Scott, Toronto	Home made Pure Raspberry Jam.	2 80
"	28	1	49400	Wilson Clyne, 317 Parliament st., Toronto.	3 "	45	Simcoe Canning Co., Simcoe.	Absolutely Pure Strawberry Jam.	2 20

SESSIONAL PAPER No. 14

FRUIT JAMS.

Results of Analysis.

PER CENT.		Polarization (normal solution).			Residual cane sugar	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Soluble.	Total.	Water.	Direct.	Invert.								Difference.
65.90	68.64	31.36	11.0	21.7	32.7	21.95	11.25	None	None	Black Currant tissues	4547 Genuine
59.00	62.85	37.15	10.4	18.9	8.5	6.40	52.60	Benzoic acid.	None	Straw-berry tissues	49548 Preservative. Otherwise genuine.
69.87	72.30	27.61	22.0	23.1	45.1	34.00	35.87	None	None	Rasp-berry tissues	42540 Genuine
67.25	68.53	31.17	3.8	23.0	26.8	20.29	17.95	None	None	Straw-berry tissues	46550 Genuine apple-jelly acknowledged on label
H. J. DAGGER, INSPECTOR.											
63.90	66.08	30.92	21.6	21.9	43.5	32.80	31.10	Benzoic acid	None	Rasp-berry tissues	49317 A preservative. Otherwise genuine.
63.12	64.92	35.08	26.3	16.7	42.5	31.50	31.62	None	None	Straw-berry tissues.	49318
67.59	69.30	30.70	43.9	24.5	68.4	51.56	15.94	Salicylic acid.	None	Straw-berry tissues	49319
67.50	70.74	29.26	31.0	23.0	54.0	40.70	26.80	None	Pre-sent.	Straw-berry tissues	49320 A dye. Otherwise genuine.
61.50	63.70	36.30	18.9	20.0	39.8	30.00	31.50	None	None	Rasp-berry tissues.	49321
62.37	68.60	31.31	33.6	21.5	55.1	41.73	29.84	None	None		49323
54.30	58.03	41.97	21.2	16.5	37.7	28.42	25.85	Benzoic acid trace	None	Straw-berry tissues	49324 Trace preservative. Otherwise genuine.
58.62	62.22	37.78	11.0	18.2	7.2	5.42	53.20	Benzoic acid	None		49325 Preservative. Otherwise genuine.
64.10	66.90	33.10	7.7	22.2	14.5	10.93	53.17	None	Pre-sent.	Rasp-berry tissues	49326 Dyed. Otherwise genuine.
64.87	67.07	32.93	19.7	20.9	31.6	23.82	41.05	None	None	Straw-berry tissues	49400 Genuine.

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

DISTRICT OF LONDON—

1912.									p. c.
Feb. 20	Fruit Jam.	47897	J. P. Sheppard, 3 jars. Clinton.	75	T. Upton Co., Ltd., Hamilton.			Labelled, Upton's Pure Strawberry Jam.	4.43
" 20	"	47898	" 3 "	75	"			Raspberry.	6.88
" 21	"	48207	McGuire & Co., 3 Seaforth.	45	Lea's, Ltd., Simcoe.			Strawberry.	3.64
" 21	"	48209	H. Livingston, 3 Seaforth.	75	Vendor			Cranberry preserves.	2.68
" 22	"	48214	Walsh Bros., 3 Stratford.	90	Loerr's, Man- chester, Eng.			Raspberry.	3.1
" 22	"	48215	" 3 "	90	"			Black Currant	5.06
1 22	"	48216	A. Beattie & 3 Co., Stratford	75	Maconochie, London, Eng.			Raspberry.	3.55
" 22	"	48221	Oman & Mal- lion, Stratford	60	Wags'ffe, Ltd. Hamilton.			"	2.31
" 22	"	48222	Barnsdale Tra- ding Co., Stratford.	60	T. Upton Co., Ltd., Hamil- ton.			"	7.44
" 24	"	48227	A. Beattie & 3 Co., St. Mary's	60	Crosse & Black- well, London, Eng.			"	0.47

DISTRICT OF WINDSOR—

Feb. 12	Fruit Jam.	47866	W. H. Tricker, 3 jars. Sarnia.	75	Wagstaffe, Ltd. Hamilton.			Blackberry Preserves.	4.72
" 12	"	47868	R. Wanless & 3 Co., Sarnia.	60	Maconochie's, London, Eng.			Raspberry Jam	3.26
" 12	"	47870	A. H. Gammon 3 & Son, Sarnia	75	Canada Pres- erving Co., Hamilton.			Graham's "Lily" Brand Pure Straw- berry Jam.	5.46
" 13	"	47877	Wm. Cross, 3 Strathroy.	75	Lea Pickling & Preserving Co., Simcoe.			Strawberry Preserves.	3.03
" 6	"	48078	A. J. Clark & 3 Co., London.	75	Cairns, Paisley Scotland.			Raspberry Jam.	3.53
" 7	"	48082	E. S. English, 3 London.	75	Wagstaffe, Ltd. Hamilton.			Pure Rasp- berry Jam.	3.60

SESSIONAL PAPER No. 14

FRUIT JAMS.

Results of Analysis.												No. of Sample.	Remarks and Opinion of the Chief Analyst.
per cent.		Water.	Polarization (normal solution).			Residual cane sugar.	Soluble matter other than cane sugar.	Preservative.	Dyes.	Microscopical examination.			
Soluble.	Total.		Direct.	Invert.	Difference.								
61.90	66.33	33.67	+ 7.4	- 20.1	27.5	29.73	41.47	Ben-zoic acid.	None.	Straw-berry tissues.	47897	A preservative. Otherwise genuine.	
55.87	62.75	37.25	+ 5.1	- 18.2	23.3	17.56	38.31	Trace of ben-zoic acid.	"	Rasp-berry tissues.	47898	Trace preservative. Otherwise genuine.	
61.37	65.91	34.99	12.9	- 19.2	6.3	4.75	56.62	Ben-zoic acid.	"	Straw-berry tissues.	48207	Preservative. Otherwise genuine.	
44.25	46.93	53.07	12.7	- 13.0	0.3	0.22	41.03	None.	"	Cran-berry tissues.	48209	Genuine. A preservative.	
67.75	70.91	29.09	+ 28.9	- 22.6	51.5	38.82	28.93	"	"	Rasp-berry tissues.	48214	Genuine.	
61.50	66.56	33.44	3.0	- 19.7	22.7	17.11	44.39	"	"	Current tissues.	48215	"	
62.87	66.42	33.58	18.4	- 12.4	6.0	4.52	58.35	"	"	Rasp-berry tissues.	48216	Contains glucose.	
65.25	67.56	32.44	+ 31.7	- 22.5	54.2	40.86	24.39	"	Preserv.	"	48221	Dyed. Otherwise genuine.	
56.59	63.94	36.06	+ 8.4	- 18.6	27.0	20.35	36.15	Trace of ben-zoic acid.	None.	"	48232	Trace preservative. Otherwise genuine.	
65.25	65.72	34.28	- 10.4	- 22.0	11.6	8.74	56.51	None.	"	Pine-apple tissues.	48227	Genuine.	

JNO. TALBOT, INSPECTOR.

24.25	28.97	71.03	7.3	- 7.3	0.0	0.0	24.25	Salicylic acid.	None.	Black-berry tissues.	47866	Preservative. Is a preservative.
65.60	68.86	31.14	+ 11.2	- 22.2	33.4	25.18	40.42	None.	Present.	Rasp-berry tissues.	47868	Dyed. Otherwise genuine.
58.25	63.71	36.29	2.0	- 18.5	16.5	12.44	45.81	Ben-zoic acid.	None.	"	47870	Preservative. Otherwise genuine.
61.25	64.28	35.72	0.0	- 20.1	20.1	15.15	46.10	None.	"	Straw-berry tissues.	47877	Genuine.
68.00	71.53	28.47	- 12.0	- 21.5	9.5	7.16	60.81	"	"	Rasp-berry tissues.	48078	"
67.25	70.85	29.15	+ 24.5	- 23.9	48.4	36.48	39.77	"	Present slight.	"	48082	Trace dye. Otherwise genuine.

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

DISTRICT OF WINDSOR—

1912.								p. c.
Feb.	7	Fruit Jam	48085 E. & O. Boug., London.	3 jars.	30	Lea's, Ltd., Simcoe.	Strawberry Preserves.	3.57
"	7	"	48089 G. S. Pettit, London East	3 "	75	Wagstaffe, Ltd Hamilton.	Black Currant Jam.	2.08
"	8	"	48092 R. W. James, London East	3 "	60	E. D. Smith, Winona.	"	3.70

DISTRICT OF MANITOBA—

Mar.	11	Fruit Jam.	47489 J. Grant, grocer, Winnipeg.	3 pks.	45	E. D. Smith, Winona, Ont		3.10
"	11	"	47490 " " "	3 "	75	Chivers & Sons, Ltd., Histon, Cambridge, Eng.	Strawberry....	4.40
"	11	"	47491 " " "	3 "	75	L. Noel & Sons, Ltd., London	Raspberry....	4.77
"	11	"	47492 S. Goddard, grocer, Winnipeg.	3 "	75	Jno. Buchanan & Bros., Ltd., Glasgow.	Strawberry....	1.24
"	11	"	47493 " " "	3 "	75	Jas. Robertson & Sons, Manchester, Eng	"	2.23
"	11	"	47494 " " "	3 "	75	W. P. Hartley, Liverpool, Eng.	Black Currant	3.03
"	11	"	47495 W. J. Kennedy, grocer, Norwood Grove.	3 "	105	E. D. Smith, Winona, Ont	Pear....	1.72
"	11	"	47496 " " "	3 "	75	Jno. Buchanan & Bros., Ltd., Glasgow.	Plum.....	2.71
"	11	"	47497 " " "	3 "	75	" " "	Apricot.....	0.88
"	11	"	47498 Francis Bros., grocers, Norwood Grove.	3 "	75	Clarke Nickalls & Coombs London.	Strawberry. . .	3.15

SESSIONAL PAPER No. 14

FRUIT JAMS.

Results of Analysis.

per cent.			Polarization (normal solution).			Residual cane sugar.	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Soluble.	Total.	Water.	Direct.	Invert.	Difference.							

Can-Added.

57.62	61.19	38.81	9.9	17.6	7.7	5.89	51.82	Trace of benzoic acid.	None	Straw-berry tissues.	48085	Trace preservative. Otherwise genuine.
65.00	67.98	32.92	5.1	21.9	27.0	29.39	44.79	None		Black currant tissues.	48089	Genuine.
59.87	63.57	36.43	6.6	21.4	28.0	21.10	38.77			"	48092	

A. C. LARIVIERE, INSPECTOR.

59.50	62.60	37.40	9.5	16.5	7.0	5.28	54.22	None	None	Plum tissues.	47189	Genuine.
67.60	72.00	28.00	30.5	22.5	53.0	39.95	27.65			Straw-berry tissues.	47190	Fruit jelly acknowledged on the label.
65.89	79.57	29.43	6.6	15.1	21.7	16.36	49.44			Rasp-berry tissues.	47191	Cantaloupe glucose.
67.37	68.61	30.39	12.4	21.7	34.1	25.79	41.67		Present	Straw-berry tissues.	47192	Dyed. Otherwise genuine; fruit jelly acknowledged.
67.70	69.93	30.07	+20.0	22.2	42.2	31.89	35.99	Salicylic acid trace	Slightly dyed	"	47193	Trace salicylic acid and dye. Otherwise genuine.
69.30	72.33	27.67	+11.4	-23.0	34.4	25.93	43.37	None	None	Cherry tissues.	47194	Genuine.
68.62	70.34	29.66	+4.1	22.8	26.9	29.28	48.34			Pear tissues.	47195	
68.75	71.46	28.54	+0.8	21.5	22.3	16.80	51.95		Present.	Plum tissues & very few stones.	47196	Dye. Otherwise genuine with fruit jelly acknowledged
68.50	69.38	30.62	-16.6	-21.9	38.5	29.02	39.48		None	Apricot tissues.	47197	Genuine with fruit jelly acknowledged
66.12	69.27	30.73	+12.2	-21.9	34.1	25.79	40.42			Straw-berry tissues.	47198	Genuine. Fruit jelly acknowledged.

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

DISTRICT OF CALGARY—

1912.									p. c.
Mar.	6	Fruit Jam.	44141 Capitol Mercantile Co., Edmonton.	3 bots.	75	Wagstaffe, Ltd Hamilton.			5.00
"	7	"	44142 Hudson Bay Co., Edmonton.	3 "	75	Empress Mfg. Co., Ltd., Vancouver.			5.44
"	7	"	44143 Acme Co., Edmonton.	3 "	90	Crosse & Blackwell, London Eng.			5.32
"	8	8	44144 Hallier & Aldridge, Edmonton.	3 "	75	Chivers & Sons, Ltd., Histon Cambridge, Eng.			4.80
"	8	"	44145 J. H. Morris Co., Ltd., Edmonton.	3 "	75	Kootenay Jam Co., Ltd., Nelson, B.C.			3.94
"	14	"	44146 L. T. Mewburn & Co., Ltd., Calgary.	3 jars.	60	Wagstaffe, Ltd Hamilton.			2.47
"	14	"	44147 Georgeson Co., Ltd., Calgary	3 "	65	E. D. Smith, Winona, Ont			3.90
"	14	"	44148 Campbell, Wilson & Horne, Calgary.	3 "	60	W. P. Hartley, Liverpool, Eng.			1.23
"	14	"	44149 The Alberta Empress Co., Ltd., Calgary	3 "	60	Empress Mfg. Co., Ltd., Vancouver.			2.80
"	14	"	44150 Hudson Bay Co., Calgary	3 "	75	E. D. Smith, Winona, Ont			5.35

DISTRICT OF NELSON—

Feb.	13	Fruit Jam.	48496 England & Son, Kamloops, B.C.	3 bots.	75	Wagstaffe, Ltd Hamilton.			2.72
"	13	"	48497 " "	3 jars.	75	Crosse & Blackwell, London Eng.			2.27
"	13	"	48498 " "	3 "	75	" "			0.84
"	13	"	48499 " "	3 "	75	" "			3.96
"	13	"	49616 Wilson Grocery Co., Kamloops, B.C.	3 "	90	Empress Mfg. Co., Vancouver.			3.50
"	13	"	49617 " "	3 "	90	" "			5.00

SESSIONAL PAPER No. 14

FRUIT JAMS.

Results of Analysis.

per cent.		Polarization (in normal solution).			Reduced cane sugar.	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.	
Soluble.	Total.	Water.	Direct.	Invert.								Difference.
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.						
63.90	68.90	31.40	7.3	20.9	28.2	21.26	42.64	None	None	Black currant tissues.	4411	Genuine.
65.50	70.94	29.06	9.3	21.7	31.0	23.37	42.13			Rasp-berry tissues.	4412	"
67.20	72.52	27.48	7.4	21.7	28.8	21.70	45.50			"	4413	"
63.50	68.30	31.70	5.4	19.5	14.4	10.63	52.87			Plum tissues and stones.	4414	"
69.30	73.24	26.76	+24.5	11.6	35.0	27.06	42.24			Straw-berry tissues.	4415	Contains glucose.
69.50	74.97	29.03	+29.6	23.4	53.0	39.95	29.55	Present		Black currant tissues.	4416	Dyed. Otherwise genuine.
60.87	64.77	35.23	9.7	22.3	32.0	24.42	36.75	None		"	4417	Genuine.
68.90	70.43	29.87	21.4	22.6	44.0	33.17	35.73			Straw-berry tissues.	4418	Genuine. Fruit juice as knowledge.
67.20	70.00	30.00	30.0	22.8	52.8	39.80	27.40	"		"	4419	Genuine.
61.62	66.97	33.03	11.4	19.5	8.4	6.33	55.29	"		Goose-berry tissues.	4450	"
THOS. PARKER, INSPECTOR												
66.62	69.34	30.66	37.5	23.4	60.6	45.68	20.94	None	Present.	Rasp-berry tissues.	4896	Dyed. Otherwise genuine.
69.00	71.27	28.73	27.9	23.4	51.0	38.45	30.55		None	Straw-berry tissues.	4897	Genuine.
66.75	67.59	32.41	6.3	20.0	13.7	10.33	56.42			Plum tissues.	4898	"
59.50	63.46	36.54	6.6	19.3	12.7	9.57	49.93			Rasp-berry tissues.	4899	"
65.70	69.20	30.80	+28.9	21.9	50.8	38.30	27.49	"	"	Straw-berry tissues.	4916	"
66.62	71.62	28.38	+15.7	22.6	38.3	28.87	37.75	"	"	Rasp-berry tissues.	4917	"

4 GEORGE V., A. 1914

BULLETIN No. 244—

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

DISTRICT OF NELSON—

1912.									P. c.
Feb. 13	Fruit Jam	49618	Wilson Groce- ry Co., Kam- loops, B.C.	3 bots.	90	Empress Mfg. Co., Vanco- ver.			1 35
" 13	"	49619	"	3 "	75	Chivers & Sons, Histon, Eng.			5 30
" 13	"	49620	"	3 "	75	"			6 52
" 13	"	49621	"	3 "	75	"			7 60

DISTRICT OF VANCOUVER—

Feb. 14	Fruit Jam	38295	B. T. Malcolm, Chilliwack, B.C.	3 jars.	75	Norfolk Pre- serving Co., Norfolk, Ont	Guaranteed Pure Plum Jam.		6 53
" 11	"	38295	Ashwell Dept. Store, Chilli- wack, B.C.	3 "	75	Empress Mfg. Co., Vanco- uver.	Red Currant		2 30
" 14	"	38297	Lillie's Cash Grocery, Chil- lwack, B.C.	3 "	75	E. D. Smith, Winona, Ont	Raspberry		4 26
" 14	"	38298	Jas. Plumridge Mission Jet., B.C.	3 "	75	Kootenay Jam Co., Mission City, B.C.	Guaranteed Pure Fruit & Sugar only.		3 11
" 19	"	38299	Ayling & Swain New West- minster, B.C.	3 "	75	Empress Mfg. Co., Van- couver.	Strawberry		3 04
" 20	"	38300	W. H. Walsh Co., Ltd., Eburne, B.C.	3 "	75	Kootenay Jam Co., Nelson, B.C.	Guarant'd pure fruit & sugar only.		5 47
" 20	"	38301	G. D. Richards Eburne, B.C.	3 "	1.05	Duerr's, Lon- don, Eng.	Raspberries & cane sugar warranted strictly pure.		2 16
" 21	"	38302	A. & C. Grocery Vancouver, B.C.	3 "	60	Chivers & Sons, Ltd., Cam- bridge, Eng.	Improved with a small por- tion of fruit jelly.		3 04
" 21	"	38303	Dominion Gro- cery, Van- couver, B.C.	3 "	75	Crosse & Black- well, London Eng.	Prepared from selected fruits		2 60
" 21	"	38304	David Spencer, Ltd., Van- couver, B.C.	3 "	75	L. Noel & Sons, London, Eng	Made from fresh fruit & pure refined sugar.		3 23

SESSIONAL PAPER No. 14

FRUIT JAMS.

Results of Analysis.

per cent.		Polarization (normal solution).				Residual cane sugar	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst
Insoluble.	Total.	Water.	Direct.	Invert.	Inference.							
68.90	70.25	29.75	+20.3	22.0	42.3	31.90	37.60	None	None	Gooseberry tissues.	49618	Genuine.
61.90	67.20	32.80	+29.3	19.2	48.5	36.56	25.34			Plum tissues and stones.	49619	
65.70	72.22	27.78	+1.3	19.7	21.0	18.10	47.60				49620	
62.62	70.22	29.78	+7.4	17.9	25.3	10.97	43.55				49621	

Concluded.

J. F. POWER, INSPECTOR.

59.40	65.93	34.07	+13.3	0.9	14.2	10.70	48.70	Benzoic acid.	None	Plum tissues.	38295	Preservative. Glucose present.
66.50	68.80	31.20	12.6	22.2	31.8	26.23	40.27	None.		Currant tissues.	38296	Genuine.
63.25	67.51	32.49	6.4	22.3	28.7	24.63	41.62			Raspberry tissues.	38297	
65.60	68.71	31.29	30.0	2.4	27.6	20.78	41.82			Currant tissues.	38298	Contains glucose.
67.20	70.24	29.76	+28.6	23.1	51.7	38.97	28.23			Strawberry tissues.	38299	Genuine.
63.50	68.97	31.03	36.0	0.5	36.5	27.50	36.06			Raspberry tissues.	38300	Contains glucose.
70.25	72.41	27.59	+4.3	23.1	27.1	20.65	49.60				38301	Genuine.
65.37	68.41	31.59	3.7	21.7	25.1	19.5	46.22				38302	Genuine. Fruit jelly acknowledged.
79.90	73.59	26.59	+24.5	22.8	47.3	35.66	35.24			Plum tissues.	38303	Genuine.
66.50	69.73	30.27	+18.9	5.1	24.0	18.10	48.40			Plum tissues & a few stones.	38304	Contains glucose.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).	Solids
				Quantity.	Cents.	Manufacturer.	Furnisher.		Insoluble.
DISTRICT OF VICTORIA—									
1912.									p. c.
Feb. 27	Fruit Jam.	49101	Windsor Grocery Co., Victoria, B.C.	3 pkgs	90	L. Noel & Sons, London, Eng.	Pure Rasp- berry.		5.17
" 27	" "	49102	" "	3 "	90	Empress Mfg. Co., Ltd., Victoria, B.C.	Strawberry "Empress Brand."		3.00
" 28	" "	49103	The West End Grocery Co., Ltd., Victoria, B.C.	3 "	90	Kootenay Jam Co., Ltd., Nelson, B.C.	Strawberry "Kootenay Brand."		2.45
" 28	" "	49104	" "	3 "	60	Simcoe Canning Co., Simcoe, Ont.	Strawberry ..		4.84
" 29	" "	A 49104	D. H. Ross & Co., Victoria, B.C.	3 "	75	E. D. Smith, Winona, Ont.	E. D. S. Rasp- berry.		4.64
" 29	" "	49105	" "	3 "	75	Crosse & Black- well, London Eng.	C. & B. Black Currant.		4.00
Mar. 1	Fruit Jam.	49106	Copas & Young Victoria, B.C.	3 "	60	Chivers & Sons, Ltd., Lon- don, Eng.	Chiver's Green Gooseberry.		3.70
" 6	" "	49107	Wm. B. Hall, Victoria, B.C.	3 "	75	Robertson's, London, Eng.	Robertson's Raspberry.		3.14
" 6	" "	49108	Harrison & Mc- Donald, Vic- toria, B.C.	3 "	75	Jas. Robertson & Sons, Pais- ley.	Golden Shred Strawberry.		2.83
" 6	" "	49109	Acton Bros., Victoria, B.C.	3 "	90	Kootenay Jam Co., Nelson, B.C.	"Kootenay" Brand Golden Plum.		4.70

SESSIONAL PAPER No. 14

FRUIT JAMS.

Results of Analysis.

Soluble.	per cent.		Polarization (normal solution).			Residual cane sugar.	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total.	Water.	Direct.	Invert.	Difference.							
64 25	69 42	30 58	2 6	15 8	13 2	9 95	54 30	None	None	Rasp- berry tissues.	49101	Trace of glucose.
67 87	70 87	29 13	38 0	22 8	60 8	15 83	22 04	"	"	Straw- berry tissues.	49102	Genuine.
63 86	66 25	33 75	19 3	2 7	22 0	16 58	47 22	"	"	"	49103	Contains glucose.
67 25	72 09	27 91	20 0	-22 3	42 3	31 16	36 0	Salic- ylic acid trace	"	"	49104	Trace preservative. Otherwise genuine.
60 37	65 61	34 99	15 0	19 7	34 7	26 16	34 21	None	"	Rasp- berry tissues.	A 49104	Genuine.
71 90	75 90	24 10	+11 6	-23 4	35 0	26 10	45 50	"	"	Black- currant tissues.	49105	
63 37	67 07	32 93	-41 7	20 4	8 7	6 56	56 81	"	"	Goose- berry tissues.	49106	
67 12	70 26	29 74	-18 8	-22 2	41 0	30 90	36 22	Salic- ylic acid trace	"	Rasp- berry tissues.	49107	Trace preservative. Otherwise genuine.
65 60	68 43	31 57	-32 2	21 5	53 7	40 18	25 12	"	slight- ly dy- ed.	Straw- berry tissues.	49108	Trace preservative and dye. Other- wise genuine.
61 19	68 80	31 20	-31 7	8 4	23 3	17 56	46 54	None	None.	Plum tissues and ste- ones.	49109	Contains glucose.

D. O'SULLIVAN, INSPECTOR.

APPENDIX I.

BULLETIN No. 245—VANILLA FLAVOURING EXTRACT.

WM. HIMS WORTH, Esq.,

Acting Deputy Minister Inland Revenue.

SIR,—I beg to hand you herewith a report covering eighty samples of Vanilla Flavouring Extract purchased throughout Canada in April and May of this year.

Standards for flavouring extracts have been published as Circular G. 1045, and came into effect November 25, 1912. These are as follows:—

1. A flavouring extract intended for the purpose of flavouring food, is a solution of correct strength, as hereinafter defined, of sapid and odorous principles derived from an aromatic plant or parts of a plant, with or without its natural colouring matters; and conforms in name to the plant used in its preparation.

2. The usual solvents employed in the preparation of flavouring extracts are ethyl alcohol, water and glycerine. In the event of any other solvents than ethyl alcohol, water and glycerine being used, such solvents shall be harmless to health, and their names shall be plainly stated on the label.

3. Solutions of natural or synthetic preparations such as vanillin, coumarin, benzaldehyde, methyl salicylate or other sapid and odorous compounds, more or less resembling substances found in plants, or absolutely identical with these, if harmless to health, may be sold for flavouring purposes, if properly labelled, so as to make it quite clear that they are not extracts as above defined; and preferably by the use of the word artificial or imitation.

4. If an extract be fortified or strengthened by having such natural or synthetic preparations as are referred to in the immediately preceding section added to it, the fact of such addition shall be clearly stated on the label, or the word Compound or Mixture shall be used to describe it.

5. Lemon extract is the flavouring extract prepared from lemon peel, or from oil of lemon, and contains along with more or less of the terpenes of lemon oil not less than two-tenths (0.2) of one per cent of citral derived from oil of lemon.

6. Terpene lemon extract is the flavouring extract prepared as above described, and contains not less than five (5) per cent of oil of lemon, and not less than two-tenths (0.2) of one per cent of citral derived from oil of lemon.

7. Vanilla extract is the flavouring extract prepared from vanilla bean with or without sugar or glycerine and contains in 100 cubic centimetres the soluble matters from not less than five (5) grams of the vanilla bean (the dried cured fruit of *Vanilla planifolia*.)

Vanilla extract has been the subject of extended work by these laboratories on three (3) occasions, and the conclusions reached are stated in Bulletin No. 201 as follows:—

1. Extracts containing coumarin should be required to announce the fact either by explicit statement, or by being sold as compound or mixtures.

2. The use of alcohol is necessary in preparing an extract of vanilla, not so much to dissolve the vanillin, which is rendered more soluble by the presence of sugar, as in order to get the characteristic resins into solution. For this reason an extract cannot

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meet the requirements of a true vanilla bean extract unless it contains from 30 to 40 per cent of alcohol.

3. Samples containing notably more than 0.2 per cent of vanillin are presumably made not from the vanilla bean, but at least in part, from synthetic vanillin.

4. The standards above referred to will be defined with greater exactitude when our experience has furnished us with additional data such as to enable us to fix numerical limits for resins, vanillin, and other essential constituents. In the meantime it must suffice to classify on the basis of already acquired knowledge. In this regard, it must be concluded that an extract made with alcohol decidedly less than 30 per cent strength (volume) is deficient in the resinous matters of vanilla bean.

Where vanillin is decidedly above 0.200 per cent, the extract is to be regarded as artificial, as containing synthetic vanillin.

Where coumarin is present, as well as vanillin, the extract should be sold as a mixture or compound.

The following synopsis in which classifications is based upon the above considerations is interesting:—

Year.	Total samples.	Genuine.	Mixture.	Artificial.	Percentage genuine.
1903	21	0	20	1	0
1909	77	7	37	33	9
1912	80	13	40	27	16

Of those classified as genuine, 2 samples of the collection of 1912 contained decidedly less than 30 per cent alcohol, and these should probably be designated as *doubtful* rather than as genuine.

It is satisfactory to note that the percentage of genuine samples found on the Canadian market is decidedly on the increase; and it is hoped that, on our next inspection, we shall find still more notable increase. Perhaps the most important advantage to be looked for, as a result of having legal standards for the article, is the correct labelling of vanilla extract. After this date, it will be possible to declare adulteration in the case of extracts which are offered under the name of Vanilla Extract, which being in reality prepared from synthetic vanillin, in whole or in part, or containing coumarin. Such extracts are not forbidden, and for many purposes they may be regarded as satisfactory; but it will be necessary that they should be correctly labelled, and thus be offered for what they really are.

I beg to recommend the publication of this report as Bulletin No. 215.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,

Chief Analyst.

BULLETIN No. 245—VANILLA EXTRACT.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.		Quantity.	Cost.	Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Name and Address of Vendor.	Name and Address of Vendor.			Manufacturer.	Furnisher.		Vanillin per 100cc.	Coumarin per 100cc.	Alcohol by Volume.		
1912.														
April 26	Vanilla Extract.	47061	Morrison & Wil- kins, Halifax, N.S.	3 oz	18	Imperial Co., Toronto.	Extract Manufacturers, Shiriffs True Va- nilla.		0.152	0.027	37.90	47061	Contains coumarin. Mixture.	
" 26	"	47062	Dixon's, Ltd., Hal- ifax, N.S.	3 "	30	"	Bauld Bros., Ltd.		0.121	0.046	22.10	47062	" "	
" 26	"	47063	Shire & Campbell, Halifax, N.S.	3 "	30	Gorman Eckert Co., London, Ont.	Manufacturers.		0.143	0.050	21.35	47063	" "	
May 18	"	47111	Nat. Drug & Chem. Co., Halifax, N.S.	3 "	22	Vendors.	"Sovereign" brand		0.282	0.051	Sample too small.	47111	Vanillin high. Ar- tificial.	
" 22	"	47112	R.R. Section & Co., Halifax, N.S.	3 "	23	F. F. Dalley Co., Hamilton, Ont.	Manufacturers.		0.101	None.	30.85	47112	No coumarin. Gen- uine.	

DISTRICT OF NOVA SCOTIA - R. J. WAUGH, INSPECTOR.

DISTRICT OF PRINCE EDWARD ISLAND - WM. A. WEEKS, INSPECTOR.

May 21	Vanilla Ex- tract.	46191	Stewart & Son, Charlottetown.	7 1/2 oz	75	The Imperial Ex- tract Co., Toronto			0.221	0.065	34.96	46191	Vanillin high. Con- tains coumarin.
" 21	"	46192	Beer & Goff, Char- lottetown.	7 1/2 "	75	Pure Gold Mfg. Co., Toronto.			0.082	None.	33.90	46192	No coumarin. Gen- uine.
" 21	"	46193	R. T. Maddigan & Co., Charlottet- own.	3 "	30	The Nat. Drug & Chem. Co., Ltd., Halifax.			0.055	0.265	32.00	46193	Chiefly coumarin Mixture.
" 21	"	46194	J. O'Brien, McKenna, Charlottetown.	6 "	30	White Swan Spices & Cereals, Ltd., Toronto.			0.489	0.025	17.58	46194	Vanillin very high ; contains coumarin. Artificial.
" 21	"	46195	J. P. Duffy, Char- lottetown.	6 "	30	White Swan Mills, Toronto.			1.029	0.170	15.70	46195	" "

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DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR

April 15	Vanilla tract.	45615	The Nat. Drug & Chem. Co., St. John, N.B.	30	30	0.086	0.023	Sample too small	45615	Contains coumarin. Mixture.
"	"	45616	Dearborn & Co., St. John, N.B.	30	30	0.217	None	None	45616	No coumarin. Vanillin high (Gen-tine).
"	"	45617	Geo. E. Barbour & Co., Ltd., St. John, N.B.	30	30	0.491	0.051	25.80	45617	Vanillin very high; contains coumarin. Artificial.
May 3	"	45618	The Barrel Co., Ltd., Weststock, N.B.	30	30	0.095	None	Sample too small	45618	No coumarin. Gen-tine.
"	"	45619	The Sussex Mercantile Co., Ltd., Sussex, N.B.	60	60	0.125	None	61.10	45619	" " "

DISTRICT OF QUEBEC—E. N. W. E. BELAND, INSPECTOR

April 21	Vanilla tract.	37423	W. E. Heyfield, 60 St. Jacques St., Montreal.	60	60	0.204	None	29.30	37423	No coumarin. Vanillin high. (Gen-tine).
"	"	37424	Phillips, Boulet, & Co., rue Grant et Des fosses.	30	30	0.394	0.101	13.10	37424	Vanillin very high. Artificial.
"	"	37425	Charles Boldy, 194 rue St. Vador.	30	30	0.230	0.082	9.12	37425	Vanillin high. Artificial.
"	"	37426	L. F. Martel, 64 rue du Parc.	15	15	0.086	0.063	21.62	37426	Contains coumarin. Mixture.
"	"	37427	"	30	30	0.052	0.105	9.65	37427	" " "

DISTRICT OF ST. HYACINTHE—J. C. ROFFLEAU, INSPECTOR

April 15	Vanilla tract.	38981	P. La Roche, 116, rue Parham.	54	54	0.273	none	32.75	38981	No coumarin; vanillin high. Contains synthetic vanillin. Artificial Mixture.
"	"	38982	Monty F. Hayes, 60 Glenby.	60	60	0.121	0.016	29.30	38982	Contains coumarin. Mixture.
"	"	38983	H. J. Elliott, 75 Durham, P.Q.	75	75	0.508	0.065	35.05	38983	Vanillin very high. Artificial.

BULLETIN No. 245—VANILLA EXTRACT.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.			Vanillin Per 100cc.	Coumarin Per 100cc.	Alcohol by Volume.		No. of Sample.

DISTRICT OF ST. HYACINTHE—J. C. ROULEAU, INSPECTOR—Concluded.

1912.												
May	2 Vanilla Extract.	38984	J. A. Fougault, St. Leonard, Jct.	30	30	Henri-Jonas & Cie., Montreal.		0.265	none.	31.20	38984	No coumarin. Vanillin high. Contains synthetic vanillin. Artificial.
"	6 "	38985	L. Gendreau, St. Hyacinthe.	30	30	J. V. Boudrias, Montreal.		0.394	0.069	12.90	38985	Vanillin high. Artificial.

DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.

April 15	Vanilla Extract.	39990	J. A. Turgeon, Victoria st., Montreal.	42 3/4	30		"Gold" Star.	0.056	none.	15.00	39990	No coumarin. Genuine; but alcohol too low.
"	15 "	39991	L. A. Pauze, Villeneuve st., W., Montreal.	140 3/4	45	Henri-Jonas & Co., Montreal.		0.273	"	33.05	39991	No coumarin. Vanillin high. Contains synthetic vanillin. Artificial.
"	15 "	39992	Annex Provision Co., 129 Clark st., Montreal.	3	30		Thistle (our own).	0.043	0.090	13.60	39992	Contains coumarin. Mixture.
"	15 "	39993	"	3	75		Shriffs.	0.243	0.055	88.78	39993	Vanillin high. Contains coumarin. Artificial.
"	15 "	39994	D. Ashkanase, Maria Anne st. E., Montreal.	21 3/4	30		Princess.	0.078	0.078	13.95	39994	Contains coumarin. Mixture.

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DISTRICT OF OTTAWA J. A. RICEY, INSPECTOR.

April 23	Vanilla Ex. tract.	51601	F. A. Scott & Son, Wellington st., Ottawa.	75	Shirriff's, Toronto.	H. N. Bate & Labelled Shirriff's Sons, Ottawa.	Imperial Quintessence pure Vanilla	0.217	0.016	38.78	51601	Vanillin high. Contains commarin. Mixture.
"	"	51602	R. Clark Cummings Brads.	30	Integrity Mills, Toronto.	Easter Pure Food Co., Toronto.		0.035	0.106	8.98	51602	Contains commarin. Mixture.
"	"	51603	G. J. Young, Ottawa.	30	L. Crossman, Ottawa Manufacturer.			0.119	0.080	9.90	51603	Vanillin very high. Artificial.
"	"	51604	W. F. Garland, Ottawa.	30	E. Nat. Drug & Chem. Co., Ottawa.			0.331	0.147	12.75	51604	Vanillin very high. Artificial.
"	"	51605	Hall Medical Hall, Ottawa.	30	Unknown	Farley, Hall.		1.388	0.202	22.10	51605	Vanillin very high. Artificial.

DISTRICT OF KINGSTON JAS. HOGAN, INSPECTOR.

April 15	Vanilla Ex. tract.	49560	Albert Powers, Pictou, Nova Scotia.	25	C. E. Co., Toronto.			0.100	0.028	11.65	49560	Contains commarin. Mixture.
"	"	49561	Hoey & Son, Pictou, Nova Scotia.	25				0.230	0.675	20.25	49561	Contains commarin. Mixture.
"	"	49562	John Curtis, Pictou, Nova Scotia.	60	Pure Gold Co., Toronto.			0.674	none	28.90	49562	No commarin. Genuine.
"	"	49563	J. R. Bell, Pictou, Nova Scotia.	30	Vendor			0.172	0.609	20.91	49563	Contains commarin. Mixture.
"	"	49564	Dutton Co., Pictou, Nova Scotia.	30	Edmunds & Mitchell, Toronto.			0.191	0.064	10.20	49564	Contains commarin. Mixture.

DISTRICT OF TORONTO H. J. DAGGER, INSPECTOR.

April 18	Vanilla Ex. tract.	49387	The Elms, Cashgro, Queen's Co., Ontario.	23	Imperial Extract Maple Leaf Co., Toronto.			0.018	0.121	12.96	49387	Contains commarin. Mixture.
"	"	49389	W. G. Wade, Queen's Co., Ontario.	30	M. Lewis Co., Toronto.	Our own manufacture, tuning for vanillin.		0.234	0.161	16.38	49389	Vanillin high. Artificial.
"	"	49390	Robert Ross, Queen's Co., Ontario.	30	Unknown	Integrity World Island, Double strength		0.059	0.106	8.10	49390	Contains commarin. Mixture.
May 1	"	49501	Carroll's Cashgro, Queen's Co., Ontario.	15	F. F. Dudley Co., Hamilton.	Long St., Hamilton.		0.005	0.191	15.84	49501	"
"	"	49509	P. R. Fleming, John St., North Hamilton.	24	Typical Flav. Ex.			0.125	0.087	15.66	49509	"

BULLETIN No. 245—VANILLA EXTRACT.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)	Results of Analysis.		No. of Sample.	Remarks and Opinion of the Chief Analyst.	
				Quantity.	Cents.	Manufacturer.	Furnisher.		Vanillin per 100cc.	Coumarin per 100cc.			Alcohol by Volume.
DISTRICT OF LONDON—JNO. TALBOT, ACTING INSPECTOR.													
1912.													
May	Vanilla Extract.	48257	W. R. Butcher, St. Mary's.	30	30	Hamilton Coffee & Spice Co., Hamilton.		.....	0.048	0.055	19.15	48257	Contains coumarin. Mixture.
"	"	48259	F. W. Hutton, St. Mary's.	30	30	F. F. Dalley & Co., Hamilton.		.....	0.104	None.	27.90	48259	No coumarin. Genuine.
"	"	48265	Stuebing & Son, Berlin.	30	30	Gorman & Eckert Co., London.		Golden Gem. Pure Extract.	0.046	0.046	21.82	48265	Contains coumarin. Mixture.
"	"	48267	Schell Bros., Berlin.	75	75	Henri Jonas, Montreal.		Royal Quintessence. Pure Vanilla	0.273	None.	32.10	48267	No coumarin. Vanilla high. Contains synthetic vanillin. Artificial.
"	"	48269	Dunke & Co., Berlin.	30	30	Hamilton Chemical Works, Hamilton.		Prime Extract.	0.143	0.041	27.90	48269	Contains coumarin. Mixture.

DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.

May	Vanilla Extract.	48237	F. McDougall, Ingersoll.	30	30	I. E. Co., Toronto.		.....	0.108	0.050	15.00	48237	Contains coumarin. Mixture.
"	"	48240	C. A. O'Neil, Ingersoll.	30	30	Gorman Eckert Co., London, O.		Oriental flav. Ext.	0.108	0.055	20.42	48240	"
"	"	48246	Poole & Co., Woodstock, O.	75	75	Shirriff's, Montreal.		Shirriff's Imperial.	0.230	0.032	38.16	48246	Vanillin high. Artificial.
"	"	48247	Fred Millman, Woodstock, O.	30	30	Gorman Eckert Co., London, O.		Rose brand.	0.056	0.069	22.70	48247	Contains coumarin. Mixture.
"	"	48248	Jos. Parker, Woodstock, O.	30	30	Canada Spicegrocery Co., London, Ont.		Victoria Brand.	0.069	0.087	20.76	48248	"

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DISTRICT OF MANITOBA—A. C. LARIVIERE—INSPECTOR.

14	April 16	Vanilla Ex-tract.	48636	St. James Cash grocery, St. James.	3 bats	75	The Dyson Co., Winnipeg.	Red Cross.	1 020	0 064	32 66	48636	Vanillin very high.	
13	"	"	48637	Duncan & Hunter, St. James.	3 "	45	"	Royal.	0 968	0 101	28 54	48637	Artificial.	
17	"	"	48638	W. A. Bartram, Portage Ave., Winnipeg.	3 "	25	North Star Mfg. Co., Winnipeg.	Unknown	0 260	0 055	19 15	48638	Vanillin high. Artificial.	
17	"	"	48639	J. Peterson, Portage Ave., Winnipeg.	3 "	25	Vendor.	"	Jewel, put up for vendor.	0 061	0 060	20 06	48639	Contains coumarin. Mixture.
18	"	"	48640	R. McIlhenny, Portage Ave., Winnipeg.	3 "	30	Unknown.	"	"	0 022	0 133	19 40	48640	"

DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR.

April 7	Vanilla Ex-tract.	4155	Campbell, Wilson & Horne, Leith bridge.	3 bats	60	Campbell Bros. & Wilson, Winnipeg.	"	"	0 052	0 101	21 61	4155	Contains coumarin. Mixture.	
"	"	"	4156	"	3 "	50	Gorman & Eckert Co., London, Ont.	"	"	0 291	0 060	24 65	4156	Vanillin high artificial.
"	"	"	4157	H. A. McKillop, Portage Ave., Leithbridge.	3 "	75	Gold Standard Mfg. Co., Winnipeg.	"	"	0 195	None	33 60	4157	No coumarin. Genuine.
"	"	"	4158	A. MacDonald, Leithbridge.	3 "	75	White Star Mfg. Co., Winnipeg.	"	"	0 069	0 110	29 68	4158	Contains coumarin. Mixture.
"	"	"	4159	Hudson Bay Co., Leithbridge.	3 "	60	"	"	Put up for Hudson Bay Co.	0 282	None	30 85	4159	No coumarin. Vanillin high. Contains synthetic vanillin. Artificial.

DISTRICT OF NELSON—THOS. PARKER, INSPECTOR.

April 18	Vanilla Ex-tract.	49614	W. H. Smith, Vernon, B.C.	3 bats	60	Kelly, Douglas & Co., Vancouver.	"	"	0 308	0 101	18 90	49614	Vanillin high. Artificial.	
"	"	"	49615	"	3 "	60	W. H. Mackin, Vancouver.	"	"	0 213	0 057	37 95	49615	Vanillin high. Mixture.
"	"	"	49616	"	3 "	60	Pure Gold Mfg. Co., Toronto.	"	"	0 078	None	38 78	49616	No coumarin. Genuine.
"	"	"	49620	W. R. Vernon, B.C.	3 "	60	Empress Mfg. Co., Vancouver.	"	"	0 139	0 088	25 36	49620	Contains coumarin. Mixture.
"	"	"	49624	"	3 "	75	Clunan Exl. Co., Vancouver.	"	"	0 125	0 085	25 04	49624	"

BULLETIN No. 245—VANILLA EXTRACT.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.		Cost.	Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of Opinion.)	Results of Analysis.				Remarks and Opinion of the Chief Analyst.
			Name and Address of Vendor.	Quality.		Manufacturer.	Furnisher.		Vanillin Per 100cc.	Coumarin Per 1000cc.	Alcohol by Volume.	No. of Sample.	

DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.

1912	May	1	Vanilla	38321 H. A. Edgett, 3 bots. Vancouver.	75	Gorman, Eckert & Co., Winnipeg.	Gorman's Pure Flavour Extract.	0.065	0.096	21.82	38321	Contains coumarin. Mixture.
	"	1	"	38322 Woodward, Dept. 3, Stores, Vancouver.	75	Royal Extract Co., Vancouver.	Vanilla Extract.	0.065	0.046	17.10	38322	"
	"	1	"	38323 McTaggart's Grocery, Vancouver.	75	Empress Mfg. Co., Vancouver.	"	0.091	0.037	27.04	38323	"
	"	1	"	38324 McDowell's Grocery, Vancouver.	195	White Star Mfg. Co., Ltd., Winnipeg.	Pure Fruit Flavour	0.091	0.110	35.60	38324	"
	"	1	"	38325 Armour, MacFarlane, Vancouver.	120	Pure Gold Mfg. Co., Toronto.	Vanilla Flav. Ext.	0.065	None.	33.60	38325	No coumarin. Genuine.

DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.

April	23	Vanilla Extract.	49135 Windsor Grocery Co., Victoria.	75	Sheriff's Mfg. Co., Toronto.	Sheriff's Imported quint essence true Vanilla.	0.204	0.046	39.60	49135	Vanillin high, containing coumarin mixture.	
	"	24	"	49136 The West End Grocery Co., Ltd., Victoria.	75	Pure Gold Mfg. Co., Toronto.	Pure Gold Vanilla Extract.	0.061	None.	33.90	49136	No coumarin. Genuine.
	"	24	"	49137 Harrison & McDonald, Victoria.	75	Empress Mfg. Co., Vancouver.	"Empress Brand"	0.148	0.068	29.12	49137	Contains coumarin Mixture.
	"	25	"	49138 Dixie, Ross & Co., Victoria.	75	Imperial Ext. Co., Toronto.	"Dixie" Brand	0.321	0.074	17.76	49138	Vanillin high. Artificial.
	"	25	"	49139 E. G. Balfour, Victoria.	60	W. A. Jameson Coffee Co., Victoria.	Victoria Brand Vanilla Flavour.	0.490	0.138	34.34	49139	Vanillin very high. Artificial.

APPENDIX J.

BULLETIN No. 246—CANNED TOMATOES.

OTTAWA, December 30, 1912.

Wm. HIMS WORTH, Esq.,
Acting Deputy Minister,
Inland Revenue.

SIR,—I have the honour to report to you regarding 140 samples of canned tomatoes purchased throughout the Dominion of Canada in September and October of this year.

With a single exception, in which slight decomposition was found, the contents of the cans were in good condition.

The cans in which tomatoes are packed appear, so far as this inspection goes, to vary in capacity, and to fall into three groups, in the matter of size.

1. *Large Size.*—About 1,050 cubic centimetres or approximately 37 ounces. Of this size 111 samples are found in the present collection.

2. *Medium Size.*—About 875 cubic centimetres, or approximately 31 ounces. Of this size 24 samples were found.

3. *Small Size.*—About 650 cubic centimetres, or approximately 23 ounces. Of this size 5 samples were found.

Large Size.

16 samples vary from 1000 to 1025 cc.	36 oz.
63 " " " 1025 " 1050 "	37 "
27 " " " 1050 " 1075 "	38 "
5 " " " 1075 " 1100 "	39 "

111

The total contents of cans of these sizes vary from 29 to 25.9 ounces; 14 samples being below 32 ounces and 19 samples being above 34 ounces. Thus 78 samples or 70% of the whole contain from 33 to 34 ounces.

The total solids of these contents vary from 11.2 to 21.3 ounces; or in greater detail, as below:

11 to 12 ounces in	3 samples.
13 " 14 "	7 "
15 " 16 "	21 "
17 " 18 "	21 "
19 " 20 "	32 "
Above 20 "	27 "

Thus 111 samples of canned tomatoes, packed in what we may call large sized tins, give the following averages:—

Average capacity of the can.....	37	ounces.
“ total contents.....	34	“
“ Solid “	18	“
“ Water “	16	“

The capacity of the largest sized tin in which these vegetables are packed is fairly constant, the variation being about 1 oz. in either direction.

The total content of the can averages about 3 ounces less than the capacity of the can. This space being either vacuous or containing air.

The solid matter of these contents is of course, the true measure of the value of the article, equal quality being assumed. While the average amount of solids is 18 ounces this varies between very wide limits, viz., from 11.2 oz. to 24.3 oz; which means that some samples have fully twice the value of others. There is no doubt that some regulation is necessary here.

I think it would be reasonable to require a minimum of 20 oz. solids in cans of the size now being considered.

It may be well to say that the solids above referred to are not the dry solid matter of the tomato, but, the moist solids retained on cheese cloth. The weighed total content of the can is poured upon cheese cloth and allowed to drain as long as drops fall at intervals not longer than 5 seconds. The water which passes through is then weighed, and this weight subtracted from the weight of total contents. The remainder in the weight of the solid matter.

Medium Size.

- 6 samples vary from 855 cc. to 875 cc. or 31 ounces.
- 17 samples vary from 875 cc. to 900 cc. or 32 ounces.
- 1 sample is of 980 cc. or 36 ounces.

The last sample referred to may perhaps belong to the preceding group.

With three exceptions, the cans of this size were procured in British Columbia, and it may be that packers ship the smaller tins to distant points to reduce cost of freight. The solid matter in these samples varies in amount from 12.5 oz. to 20.8 oz. and averages 16.3 ounces. More in detail, as follows:—

Below 13 ounces.....	2	samples.
“ 14 “	2	“
“ 15 “	3	“
“ 16 “	2	“
“ 17 “	8	“
“ 18 “	2	“
Above 18 “	5	
	24	“

Small Size.

Five samples are contained in tins of about 650 cc. size (23 ozs.). The solids range from 9.5 to 14.4 ounces and average 11.7 ozs. The ratio of solid content to size of can (11.7: 23) is 0.5 being practically identical with that for the other sizes. It thus appears that the size of the package is a guide to the actual amount of tomato pulp contained therein, on a basis of average results as found in this inspection.

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If I am justified in holding that 20 ounces of solids is a reasonable content for a 37 ounce tin, then a medium sized tin of 32 ounces should contain 17 ounces of solids, and a small tin of 23 ounces should contain 12.5 ounces.

On this basis 52 samples of the large size, or 47 per cent of the whole, contains less than normal quantity, and a considerable number of these are very far below the standard suggested. Of the medium size tins, 17 samples or 70% of the whole contains less than the standard requires.

Of the small size 3 samples or 60% of the number contain less than the standard requires.

The State of Ohio requires that standard tomatoes, should be packed to have a gross weight of 36 ounces of fruit, exclusive of juice. For a higher grade, the gross weight must be 38 ounces, with not less than 20 ounces of fruit.

In view of the great disparity of values shown in this widely used article of food, I am of the opinion that a standard should be legalized under the provisions of 6-7 Edward VII, Chapter 27, "THE MEAT AND CANNED FOODS ACT" and the amendment thereto, which Act is administered by the Department of Agriculture, and I hope that the results here placed on record will be found of service to the Department of Agriculture should it decide on establishing such a standard.

I beg to recommend the publication of this report as Bulletin No. 246.

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.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA—

1912.								
Sept. 18	Canned tomatoes	47105	A. & W. Smith & Co., Halifax, N.S.	3 cans	43	Simcoe Canning Co., Simcoe, Ont.	Manufacturers	
" 18	"	47106	Wentzells Ltd., Halifax, N.S.	3 "	45	Ontario Cannery Ltd., Sarnia, Ont.	"	
" 19	"	47107	Chisholm & Co., Halifax, N.S.	3 "	35	E. D. Smith, Winona, Ont.	Manufacturer	Sold as 1910 pack.
" 19	"	47108	R. B. Adams & Co., Halifax, N.S.	3 "	50	Simcoe Canning Co., Simcoe, Ont.	Bauld Bros., Halifax, N.S.	
" 20	"	47109	John Tobin & Co., Halifax, N.S.	3 "	40	Roberts Bros., Baltimore, U.S.A.	Manufacturers	
" 24	"	47110	Cain Bros., Yarmouth, N.S.	3 "	48	F. R. Laylor Co., Dunnville, Ont.	C. E. Allen, Yarmouth, N.S.	
" 24	"	47113	Wm. Law & Co., Yarmouth, N.S.	3 "	45	Suddersville Co., Suddersville, U.S.A.	C. Manufacturers	
" 25	"	47114	Wentworth Stores, Windsor, N.S.	3 "	45	A. C. Millar Co., Pictou, Ont.	"	
Oct. 8	"	47115	C. E. Smith, Halifax, N.S.	3 "	54	Ontario Cannery Sarnia, Ont.	Wentzells Ltd., Halifax, N.S.	
" 8	"	47116	B. O. Bishop, Dartmouth, N.S.	3 "	45	A. C. Millar, Pictou, Ont.	John Tobin & Co., Halifax, N.S.	

DISTRICT OF PRINCE EDWARD ISLAND—

Sept. 6	Canned tomatoes	46297	Grant & Co., Charlottetown, P.E.I.	3 cans	60	J. S. Farren & Co., Baltimore, Md.		
" 6	"	46298	R. T. Maddigan & Co., Charlottetown, P.E.I.	3 "	45	Simcoe Canning Co., Simcoe, Ont.		
" 7	"	46299	A. Gates & Co., Charlottetown,	3 "	54	W. F. Applegarth, Goldenhill, Dorchester Co., Md.		
" 19	"	46300	Coffin & Co., Charlottetown, P.E.I.	3 "	45	The Old Homestead Canning Co., Pictou, Ont.		
" 14	"	46301	A. J. Warren, Charlottetown, P.E.I.	3 "	54	Boulters, Pictou Ont.		
" 14	"	46302	W. W. Walker, Charlottetown, P.E.I.	3 "	54	St. Eustache Canning Co., St. Eustache, P.Q.		
" 17	"	46303	Geo. Carver, Pownal, P.E.I.	3 "	48	Tecumseh Cann. Factory, Tecumseh, Ont.		

SESSIONAL PAPER No. 14
CANNED TOMATOES.

RESULTS OF ANALYSIS.

Brand.	Grade.	Net weight.		Water.	Solids.	Condition of Sample.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		oz.	cc.					
R. J. WAUGH, INSPECTOR.								
Lynn Valley	Select	31.3	1010	14.2	20.1	Good	47105	
Prairie	Extra Quality.	34.3	1050	16.0	18.3	"	47106	
E. D. S.	Select	21.3	650	6.9	14.4	"	47107	
Lynn Valley	"	31.4	1010	17.9	16.5	"	47108	
Big	First Quality	19.9	635	10.1	9.5	"	47109	
Grand River	Choice	32.9	1050	16.5	16.4	"	47110	
Air Ship		31.7	1050	15.7	16.0	"	47113	
Little Chief		32.1	1040	16.8	15.3	"	47114	
Prairie	Extra Quality.	33.8	1050	17.1	16.4	"	47115	
Little Chief		33.2	1060	14.6	18.6	"	47116	
WM. A. WEEKS, INSPECTOR.								
Shield		33.0	1050	12.9	20.1	Good	46297	
Lynn Valley	Select	33.0	1015	9.8	23.2	"	46298	
Pride of Golden Hill	First Quality	32.9	1025	13.7	19.2	"	46299	
Old Homestead		33.8	1010	13.0	20.8	"	46300	
Lion	Famous	32.6	1035	14.5	18.1	"	46301	
Union	First Quality	32.9	1025	13.7	19.2	"	46302	
Tecumseh	Choice	34.2	1030	13.6	20.6	"	46303	

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

DISTRICT OF PRINCE

1912.									
Sept.	19	Canned Tomatoes	46304	M. Duffy, Charlottetown, P.E.I.	3 cans	54	The A. B. Salvor Canning Co., Bloomfield, Ont.		
Oct.	1	"	46305	Sinclair & Stewart, Summerside, P.E.I.	3 "	48	The Felton Pack. Co., Felton, Del.		
"	3	"	46306	A. Currie & Co., Souris, P.E.I.	3 "	57	J. W. Windsor, Montreal.		

DISTRICT OF NEW BRUNSWICK

Sept	9	Canned Tomatoes	50470	2 Barkers Ltd St. John N.B.	3 cans	42	The Port Milford Packing Co., Ltd., Ont Canada.		Prince Edwards Pride.....
"	9	"	50471	Baird & Peters St. John, N.B.	"	47	W. W. Boyer & Co., Baltimore M.D., U.S.A.		"Star".....
"	10	"	50472	W. A. Simonds.. St. John, NB.	"	54	Bloomfield Packing Co., Ltd., Bloomfield, Ont.		"Quaker".....
"	10	"	50473	McPherson Bros St. John, N.S.	"	54	Simcoe Canning Co., Simcoe, Ont.		"Lynn Valley
"	11	"	50474	H. A. Francis... St. John, N.B.	"	45	Stoney Point Canning Co., Ltd., Stoney Point, Ont.		"Pointer".....
"	19	"	50475	Estate of J. Fred Shaw, St. John N.B.	"	45	The Ontario Pure Food Co. Ltd.		"Red Seal".....
"	25	"	50476	J. & J. S. Titus St. Martins, N.B.	"	54	The Booth Packing Co., Baltimore, M. D., U.S.A.		"Oval".....
Oct	3	"	50477	H. C. Jewett... Fredericton, N.B.	"	54	Roberts Bros... Baltimore, M.D., U.S.A..		"Big R".....
"	8	"	50478	Mrs. P. Legacy.. Grand Falls, N.B.	"	54	Dominion Canners, Ltd.		"Gold Bond"...
"	16	"	50479	D. A. McBeath Moncton, N.B	"	48	The Essex Canning & Preserving Co., Ltd.		"Essex".....

SESSIONAL PAPER No. 14

CANNED TOMATOES.

RESULTS OF ANALYSIS.

Brand.	Grade.	Net weight.	Capacity of can.	Water.	Solids.	Condition of Sample.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		oz.	oz.	oz.	oz.			
EDWARD ISLAND— <i>continued.</i>								
	Choicest	32.4	1050	11.5	20.9	Good	46304	
Bell Cow		34.2	1035	14.1	20.1	"	46305	
Ice Castle	Unsurpassed Quality.	33.8	1040	14.9	19.0	"	46306	
J. C. FERGUSON, INSPECTOR.								
Prince Edwards Pride.	Choice	34.3	1035	17.9	16.4	Good	50470	
Star		33.3	1040	13.7	19.6	"	50471	
Quaker		31.0	1050	12.0	19.0	"	50472	
Lynn Valley	Select	27.3	900	12.5	14.8	"	50473	
Pointer.	Choice	33.8	1030	14.8	19.0	"	50474	
Pure Food.		35.9	1035	13.6	22.3	"	50475	
Booth's Standard.		33.4	1030	14.0	19.4	"	50476	
Big.	Finest Quality.	33.9	1010	13.1	20.8	"	50477	
Gold		32.4	1050	18.3	14.1	"	50478	
Essex	Select	35.4	1080	16.8	18.6	"	50479	

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

DISTRICT OF QUEBEC—

1912.								
Sept	3 Canned Tomatoes	37241	Eudore Delisle, 2 Ave Tache-reau, Quebec.	3 cans	54	St. Eustache Canning Co.	Turcot & Frère.	
"	4 "	37242	O. Lacroix, 19 Rue St. Joseph, Quebec.	"	54	Tomatoes Co., Ont.	J. B. Reneaud, Quebec.	
"	5 "	37243	W. Cantin, 133 Rue du Pont, Quebec.	"		Tomatoes Co., Ont.	Joseph & Son, Quebec.	
"	6 "	37244	G. Gingras, 268 Rue du Roie, Quèbec.	"	51		Gaboury Ltd	"Little Chief".
"	9 "	37245	Cantin & Frère, 271 Rue St. Joseph, Quebec.	"	51	W. Boulter, Pic-ton.	Turcot, Frère.	
"	10 "	37246	C. S. Riverin, 50 Rue de la Couronne, Quebec.	"	54	Dominion Can-ners.	Turcot Frère.	
"	11 "	37247	Myrand & Pouliot, 70 Rue de la Couronne, Quebec.	"	45	Sudraill	Unknown.	
"	12 "	37248	Arthur Drolet, 714 Rue St. Valier, Quebec.	"	54	A. Damery Bay	Turcot & Frère.	
"	13 "	37249	A. Rinfret, 414 Rue St. Joseph, Quebec.	"	51	St. Eustache Canning Co.	Gagnon & Gar-ent.	
"	16 "	37250	Hamel & Bedard, 728 Rue St. Valier, Quebec.	"	54	Mill & Co., Pic-ton.	Turcot & Frère.	

DISTRICT OF ST. HYACINTHE

Sept.	16 Canned Tomatoes	1487	D. M. D. Cor-mier, St. Ger-main de Gran-tham.	3 cans	45	The Felton Paek ing, Co. Felton Del.	Lacaille & Gen-dreau, Montreal.	
"	17 "	1488	Carter & Co., Abenakis Springs.	"	42		Hudon, Hebert & Cie., Montreal.	
"	20 "	1489	M. Boisselle, St. Anne.	"	45	W. Clark, Mon-treal.		
"	27 "	1490	T. H. Raymond Iberville.	"	51	A. C. Miller & Co., Picton, Ont.		
Oct.	2 "	1491	W. J. Smith, Megantic.	"	45	Suddersville Canning Co., Suddersville, M. D.		

SESSIONAL PAPER No. 14

CANNED TOMATOES.

RESULTS OF ANALYSIS.

Brand.	Grade.	Net weight.	Capacity of can.	Water	Solids.	Condition of Sample.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		gr.	cc.	oz.	oz.			
Union	First Quality	34.5	1100	15.3	19.2	Good	37241	
Tecumseh	Choice	33.0	1035	16.3	16.7	"	37242	
Tecumseh	"	31.8	1045	20.1	11.7	"	37243	
Little Chief	"	31.9	1030	11.2	17.7	"	37244	
Boulter	Famous	32.8	1050	11.1	19.7	"	37245	
Little Chief	"	31.9	1040	20.7	11.2	"	37246	
Air Ship	"	31.4	1045	13.9	19.5	"	37247	
E. F. V.	Choice	31.8	1060	10.9	22.9	"	37248	
Union	First Quality	35.9	1095	12.0	21.9	"	37249	
Little Chief	"	33.3	1030	19.4	13.9	"	37250	
J. C. ROULEAU, INSPECTOR.								
Bell Cow	"	33.0	1010	20.8	12.2	good.	1487	
Gazelle	Very Finest	33.8	1050	18.5	15.3	"	1488	
"	"	33.0	1000	10.6	22.4	"	1489	
Little Chief	"	33.8	1060	11.8	22.0	"	1490	
Airship	"	33.5	1050	12.3	21.2	"	1491	

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

DISTRICT OF ST. HYACINTHE—

1912								
Oct.	3	Canned Tomatoes	1492 N. Hamel.....	3 cans	45	Church Bros.,.....	Pictou, Ont.	
"	8	"	1493 R. H. Peardon, Eastman.	"	45	The Simcoe Canning, Co., Simcoe Ont.		
"	10	"	1494 J. E. Robitaille, Sherbrooke.	"	45	T. Degruchy.....	Laprarie.	
"	14	"	1495 A. Clapin.....	"	45	Church Bros.....	Pictou, Ont.	
"	14	"	1496 Art. Houle.....	"	45	J. S. Farren & Co., Baltimore M.d.		

DISTRICT OF MONTREAL—

Sept.	3	Canned Tomatoes	50911 E. Paquette.... 39 Mount Royal ave. E., Mont- real.	3 cans	45	Hudon Hebert & Co., Ltd.	Manufacturers...	"Gazelle".....
"	3	"	50912 Arthur Corbeil.. 55 Mount Royal ave. E. Mont- real.	"	42	The Felton Packing Co., Felton, Del.		"Bell Cow".....
"	3	"	50913 Arthur Corbeil.. 55 Mount Royal ave. E., Mont- real.	"	42	Tecumseh Can- ing Co., Ltd..		"Tecumseh"....
"	3	"	50914 E. Boismems... 623 Colonial ave., Montreal	"	42	W. Lorrain..... Borda Plouffe P.Q.		"Royal".....
"	3	"	50915 J. B. Valiquette Rachel, E., Montreal.	"	45	A. C. Miller & Co., Picton, Ont.		"Little Chief"..
"	4	"	50916 S. Carey..... 176 Villeneuve St., Montreal	"	45	L. Chaput Fils & Cie., Mon- treal.	Manufacturers...	"Princess".....
"	4	"	50917 S. Carey..... 176 Villeneuve St., Montreal	"	45	Bloomfield Packing Co., Ltd.		"Quaker".....
"	4	"	50918 L. P. Deslières 1750 Cadieux St., Montreal	"	42	D. E. Foote & Co. Balti- more, M.d.		"Foote's Best"'.
"	4	"	50919 L. P. Deslières. 1750 Cadieux St., Montreal.	"	42	St-Isidore Cann- ing Co., St- Isidore, P.Q.		"Three Star"....
"	4	"	50920 T. Chevrette... 110 Mount Royal Ave. E. Montreal.	"	45	Chas. Webster East New- market, Dor- chester, M.d.		"Rosehill".....

SESSIONAL PAPER No. 14

CANNED TOMATOES.

RESULTS OF ANALYSIS.

Brand.	Grade.	Net weight.	Capacity of can.	Water.	Solids.	Condition of Sample.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		oz.	cc.	oz.	oz.			
Lasso.....		32.4	1035	15.0	17.4	Good...	1492	
Lynn Valley.....	Select..	33.4	1050	15.6	17.8	"	1493	
.....	Choice...	35.1	1070	15.2	19.9	"	1494	
Lasso.....		32.2	1030	13.4	18.8	"	1495	
Shield.....		32.9	1010	18.8	14.1	"	1496	

J. J. COSTIGAN, INSPECTOR.

Guelle.....	Finest.....	33.5	1020	13.3	20.2	Good.	50911	
Bell Cow.....		32.6	1030	15.2	17.4	"	50912	
Tecumseh.....	Choice.....	33.7	1040	10.8	22.9	"	50913	
Royal.....	Finest Quality....	33.7	1040	18.2	15.5	"	50914	
Little Chief.....		29.0	1030	13.3	15.7	"	50915	
Princess.....	Extra Quality....	32.4	1030	12.3	20.1	"	50916	
Quaker.....	Hand Packed....	32.8	1035	16.2	16.6	"	50917	
Foote's Best.....	Selected.....	32.8	1025	20.0	12.8	"	50918	
Three Stars.....		34.5	1070	18.0	16.5	"	50919	
Rosehill.....	First Quality....	33.3	1030	15.4	17.9	"	50920	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF OTTAWA—								
1912.								
Aug. 30	Canned Tomatoes	50281	John Wilson, Vankleek Hill	3 cans	54	Napanee Cann'g Co., Napanee, Ont.	Wm. Galbraith & Son, Montreal.	'Canada's Pride'
" 31	"	50282	A. Meighan & Bro., Perth, Ont.	3 "	45	Sanitary Pack'g Co., Weston, Ont.	Geo. Robertson & Son, Kingston.	'Sanitary.'
Sept. 4	"	50283	A.S. Moreland, Ottawa.	3 "	45	The Simcoe Canning Co., Simcoe, Ont.	Mrs.	'Lynn Valley'—warranted pure and free from adulteration of any kind.
" 4	"	50284	Geo. Ager, Ottawa.	3 "	45	A. C. Miller & Co., Ont.	H. N. Bate & Sons, Ottawa.	'Little Chief.'
" 6	"	50285	A. S. Shaver, Brockville.	3 "	45	Delhi Fruit & Veg. Canning Co., Delhi Ont.	Gilmour & Co., Brockville.	
" 12	"	50286	Major & Hurteau, Ottawa.	3 "	45	Baltimore Canning Co., Baltimore, Md.	E. M. Lerner, Ottawa.	'Old Scout.'
" 16	"	50287	W. Cunningham Ltd., Ottawa.	3 "	45	H. W. Roberts, Clara, Md.	S. J. Major, Ltd., Ottawa.	'Harvester.'
" 20	"	51627	McDonald Bros., Ottawa.	3 "	51	Brighton Cann'g Co., Brighton, Ont.	F.J. Castle Co., Ottawa.	'Thistle.'
" 20	"	51634	Wall & Co., Ottawa.	3 "	45	Simcoe Caning Co., Simcoe, Ont.	Mrs.	'Lynn Valley'—warranted pure and free from adulteration of any kind.
" 20	"	51636	P. Devine & Co., Ottawa.	3 "	45	W. Boulter & Sons, Picton.	Moreland, Bank St. Ottawa.	'Lion'—Peerless Quality.

DISTRICT OF KINGSTON

Sept. 3	Canned Tomatoes	50781	Geo. Gibson, Kingston.	3 cans	45	Orsers Home Cannery, Bloomfield.		
" 3	"	50782	Wm. Davies, Kingston.	3 "	45	Napanee Cann'g Co., Napanee.		
" 3	"	50783	L. W. Murphy, Kingston.	3 "	45	Baltimore Canning Co., Baltimore.		
" 4	"	50784	W.E. Hopkinson, Kingston.	3 "	45	Beamsville P Co., Beamsville.		
" 4	"	50785	C. Saunders, Kingston.	3 "	45	The Old H. C. Co., Picton.		
" 4	"	50786	D. Couper, Kingston.	3 "	45	Port Milford P. Co.		
" 4	"	50787	Anderson Bros., Kingston.	3 "	50	The Old H. C. Co., Picton.		
" 4	"	50788	C. H. Pickering, Kingston.	3 "	45	Brighton Cann'g Co., Brighton.		
" 4	"	50889	W. J. Nesbitt, Kingston.	3 "	45	The Old H. C. Co., Picton.		
" 4	"	50790	Jas Crawford, Kingston.	3 "	45	Essex C. & P. Co.		

SESSIONAL PAPER No. 14

ANNED TOMATOES.

RESULTS OF ANALYSIS.

Brand.	Grade.	Net weight.		Water.	Solids.	Condition of Sample.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		oz.	Capacity of can.					
J. A. RICKEY, INSPECTOR.								
		oz.	oz.	oz.	oz.			
Canada's Pride		33.4	1070	11.6	21.8	Good	50281	
Sanitary	Selected	34.5	1070	13.9	20.6	"	50282	
Lynn Valley	Select	33.1	1045	13.8	19.3	"	50283	
Little Chief		33.1	1030	16.4	17.0	"	50284	
Maple Leaf	First Quality	34.9	1050	15.2	19.7	"	50285	
Old Scout		33.0	1000	11.9	21.1	"	50286	
Harvester		33.9	1035	17.5	16.4	"	50287	
Thistle	Selected	30.4	1030	15.8	14.6	"	51627	
Lynn Valley	Select	33.6	1020	14.0	19.6	"	51634	
Boulton's	Famous	34.2	1010	17.6	16.6	"	51636	
JAS. HOGAN, INSPECTOR.								
Highlander	Superior	33.4	1010	9.4	24.3	Good	50781	
Canada's Pride		32.9	1010	15.1	17.8	"	50782	
Old Scout		33.0	1020	18.6	14.4	"	50783	
Peerless	Hand packed	34.2	1050	17.7	16.5	"	50784	
Old Homestead		33.0	1025	13.0	20.0	"	50785	
Prince Edward's Choice		35.6	1100	13.8	21.8	"	50786	
Old Homestead		32.6	1040	15.5	17.1	"	50787	
Thistle		33.8	1035	13.7	20.1	"	50788	
Old Homestead		33.3	1035	14.4	18.9	"	50789	
Essex	Select	35.9	1060	13	22.0	"	50790	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF TORONTO—								
1912.								
Sept. 9	Canned Tomatoes	49472	Eby Blain Ltd., Front St., E., Toronto	3 cans	45	Clayton Orser Packing Co., Colborne, Ont		'Puritan.'
" 9	"	49473	Groceries, Ltd., 31 Front St., E., Toronto.	3 "	40	Church Bros Picton, Ont.		'Lasso.'
" 9	"	49474	F. W. Humphrey, 47 Front St., E., Toronto.	3 "	45	The Fort Milford Packing Co. Ltd., Port Milford, Ont.		'Prince Edwards Pride.'
" 9	"	49475	Jas. Lumbers Co. Ltd., 67 Front St., E., Toronto.	3 "	40	The Pelham Cann. Co. Ltd Ridgeville.		'Pelham.'
" 9	"	49476	Medland Bros., 73 Front St., E., Toronto.	3 "	40	Aylmer Canning Co., Ltd., Aylmer.		'Canada First.'
" 10	"	49477	G. W. Perrault, 595 Parliament St., Toronto.	3 "	60	The Vineland Canning Co. Ltd., Vineland		'Vine.'
" 10	"	49478	J. W. Quackenbush, 237 Gerard St. E., Toronto.	3 "	45	Beamsville Preserving Co., Beamsville.		'Peerless.'
" 12	"	49479	T. Eaton Co. Ltd., Queen & Yonge Sts., Toronto.	3 "	45	Sanitary Packing Co., Weston.		'W. G. T. Sanitary.'
" 12	"	49480	Swan Bros., 169 King St. E., Toronto.	3 "	45	Jno. W. Hyatt Sons, Westlake.		'Sunset.'
" 12	"	49481	J. Page, 396 Spadina Ave., Toronto.	3 "	45	Brighton Canning Co. Brighton.		'Thistle.'
DISTRICT OF WINDSOR—								
Oct. 2	Canned Tomatoes	48147	R. Stirrett Co., Petrolia.	3 Cans	45	Vineland Canning Co., Vineland.		'Vine Brand.'
" 2	"	48149	C. Matson, Petrolia.	3 "	45	E. D. Smith, Winona.		E. D. S. pure food packers.
" 2	"	48151	A. Duncan & Co., Wyoming	3 "	38	Lambton Packing Co., Petrolia.		'Meadow Sweet'
" 2	"	48154	John E. Anderson, Wyoming	3 "	45	Ont. Canners Ltd., Sarnia.		'Prairie' Tomatoes.
" 3	"	48157	A. H. Gammon & Son, Sarnia.	3 "	45	Ont. Canners Ltd., Sarnia.		'Prairie Toma- toes.'
" 3	"	48158	Jas. Galbraith, Sarnia.	3 "	45	Ont. Canners Ltd., Sarnia.		'Prairie' Tomatoes.
" 3	"	48159	Wm. Johnston, Sarnia.	3 "	45	Bloomfield Packing Co., Bloomfield, Ont.		'Quaker.'
" 3	"	48160	W. H. Tricker, Sarnia.	3 "	45	E. Sharp, Virginia, U.S.		'Milden.'
" 4	"	48169	E. Gallagher, Strathroy.	3 "	45	Delhi Canning Co., Delhi.		'Maple Leaf.'
" 4	"	48170	O'Dwyer & Jay, Sarnia.	3 "	45	Tecumseh Canning Co., Tecumseh.		'Tecumseh.'

SESSIONAL PAPER No. 14
 CANNED TOMATOES.

RESULTS OF ANALYSIS.

Brand.	Grade.	Net weight.	Capacity of can.	Water.	Solids.	Condition of Sample.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		oz.	cc.	oz.	oz.			
H. J. DAGER—INSPECTOR.								
Puritan.....	Supreme.....	34.9	1030	15.4	19.5	Good...	49472	
Lasso.....		32.8	1020	16.1	16.7	"	49473	
Prince Edwards Pride.	Choice.....	34.6	1030	16.1	18.5	"	49474	
Pelham.....	High Grade...	34.5	1030	16.0	18.5	"	49475	
Canada First.....	Choice..	28.2	2880	12.7	15.5	"	49476	
Vine.....		34.3	1040	20.2	14.1	Slightly fermented	49477	
Peerless.....	Hand Packed ..	33.8	1035	14.4	19.1	Good.	49478	
Sanitary.....	High grade ..	33.4	1020	19.5	13.9	"	49179	
Sunset.....	Hand Packed ..	33.9	982	15.5	18.4	"	49480	
Thistle.....		34.5	1050	19.8	14.7	"	49481	
JNO. TALBOT—INSPECTOR.								
Vine.....		33.9	1030	11.4	22.5	Good	48147	
E. D. Smith.....	Finest.	33.5	1050	12.4	21.1	"	48149	
Meadow Sweet.....		33.0	1060	13.3	19.7	"	48151	
Prairie.....	Extra Quality..	33.8	1035	13.4	20.4	"	48154	
Prairie.....	Extra Quality..	33.3	1040	11.7	21.6	"	48157	
"	"	33.0	1040	13.2	19.8	"	48158	
Quaker.....	Hand Packed ..	29.9	1050	11.4	18.5	"	48159	
Milden.....		33.4	1000	13.0	20.4	"	48160	
Maple Leaf.....	First Quality	33.4	1040	16.3	17.1	"	48169	
Tecumseh.....		33.4	1045	15.6	17.8	"	48170	

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

DISTRICT OF MANITOBA

1912								
Sept. 17	Canned Tomatoes	48731	J. E. Manning, Sargent Ave. Winnipeg.	3 cans	55	The Delhi F. & Veg. Canning Co., Delhi, Ont.	Unknown.	'Maple Leaf'
" 17	"	48732	R. Seymour, Sargent Ave. Winnipeg.	3 "	55	Orsers, Bloomfield, Ont.	"	'Highlander'
" 17	"	48733	Conley & Yost, Sargent Ave., Winnipeg.	3 "	50	R. W. Messenger & Co. Federalburg.	"	'Lucky Horse Shoe'
" 18	"	48734	B. Amason, Sargent Ave. Winnipeg.	3 "	55	Orsers, Bloomfield, Ont.	"	'Highlander'
" 18	"	48735	C. Corneil, Langside St., Winnipeg.	3 "	45	The Delhi F. & Veg. Canning Co., Delhi, Ont.	"	'Maple Leaf'
" 18	"	48736	W. S. Shipman, Sargent, Ave., Winnipeg.	3 "	54	The Canning Co Picton, Ont.	"	'Old Homestead'
" 19	"	48737	M. Shiner, Emerson.	3 "	50	Orsers, Bloomfield, Ont.	"	"
" 19	"	48738	C. A. Whitman, Emerson.	3 "	50	The Garden City Cann. & Pres Co., St. Catharines, Ont.	"	"
" 23	"	48739	W. H. Morgan, Winnipeg.	3 "	60	Isaac Usher, St. Davids, Ont.	"	"
" 23	"	48740	Western Mercantile Co., Winnipeg.	3 "	60	The Delhi F. & Veg. Canning Co., Delhi, Ont.	"	'Maple Leaf'

DISTRICT OF NELSON—

Sept. 3	Canned Tomatoes	49686	Union Cash Grocery, Nelson, B.C.	3 cans	50	Bayside Canning Co., Alviso, Cal., U. S.A.		
" 3	"	49693	Bell Trading Co. Nelson, B.C.	3 "	50	Balfour & Co., Hamilton.		'Tartan'
" 3	"	49694	Bell Trading Co. Nelson, B.C.	3 "	50	J. Lumbers & Co., Toronto.		'Glenrose'
" 6	"	49696	Diamond Vale S. Co., Merritt B.C.	3 "	60	Brighton Canning Co., Brighton.		'Thistle'
" 6	"	49706	G B. Armstrong Merritt, B.C.	3 "	60	Canadian Canners, Hamilton.		'Faultless'
" 6	"	49707	" " "	3 "	60	Bloomfield Packing Co., Bloomfield.		'Quaker'
" 6	"	49710	Merritt Merc. Co., Merritt, B. C.	3 "	90	Code Portwood Canning Co., Fruitvale, Cal. U.S.A.		

SESSIONAL PAPER No. 14

CANNED TOMATOES.

RESULTS OF ANALYSIS.							Remarks and Opinion of the Chief Analyst.
Brand.	Grade.	Net weight.	Capacity of can.	Water.	Solids.	Condition of Sample.	

—A. C. LARIVIERE, INSPECTOR.

		oz.	cc.	oz.	oz.		
Maple Leaf...	First Quality	33.4	1050	16.9	16.5	Good	48731
Highlander..	Superior	33.7	1020	14.0	19.7	"	48732
Lucky HorseShoe ..		31.8	1050	11.3	20.5	"	48733
Highlander..	Superior	33.8	1000	17.1	16.1	"	48734
Maple Leaf..	First Quality.	34.7	1035	10.4	24.3	"	48735
Old Homestead..		33.8	1015	18.7	15.1	"	48736
Highlander..	Superior Quality	33.4	1000	11.5	18.9	"	48737
Garden City..	Choice..	33.3	1025	13.1	20.2	"	48738
Home Grown..		33.9	1040	11.7	21.6	"	48739
Maple Leaf.....	First Quality	32.0	1035	14.2	17.8	"	48740

THOS. PARKER, INSPECTOR.

Bohemian.....	Choice..	28.7	880	12.3	16.4	Good	49686
Fartan.....		33.9	1010	20.5	13.4	"	49693
Glenrose.....		33.8	1025	12.0	21.8	"	49694
Thistle.....		33.0	890	16.4	16.6	"	49696
Faultless.....	Selected.	28.7	890	15.8	12.9	"	49706
Quaker.....	Hand Packed..	28.7	900	14.1	14.6	"	49707
All Gold.....	Extra.....	29.6	885	10.8	18.8	"	49710

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

DISTRICT OF NELSON—

1912.								
Sept.	9	Canned Tomatoes	49716	L. C. Masson, Revelstoke B.C.	3 cans	50	Mason Ehrman Co. Portland, Ore.	
"	9	"	49717	" " B.C.	3 "	50	Pratt Low Preserving Co., Santa Clara, Cal.	
"	9	"	49718	" " B.C.	3 "	50	Cutting Packing Co., San Francisco, Cal.	

DISTRICT OF VANCOUVER

Sept.	25	Canned Tomatoes	38439	A. C. Barting, 8th Ave. and Granville St., Vancouver, B.C.	3 cans	40	California Cannery, Ltd. San Francisco, Cal.	
"	25	"	38440	A. MacFarlane, 1469 Broadway W. Vancouver B.C.	3 "	45	Wayne Packing Co., San Jose, Cal.	
"	25	"	38441	London Grocery, 6th Ave. and Granville St., Vancouver, B.C.	3 "	45	Port Milford Packing Co., Port Milford, Ont.	
"	25	"	38442	Gruchy & Carlaw, 5th Ave. and Granville, Vancouver, B.C.	3 "	45	Kelowna Packing Co., Kelowna, Ont.	
"	25	"	38443	Samuel Bell, 2023 Granville St., Vancouver B.C.	3 "	40	Fruit Vale Canning Co., Fruit Vale, Cal., U.S.A.	
"	26	"	38844	Cook Bros., 1619 4th Av. West Vancouver B.C.	3 "	45	Cutting Packing Co., San Francisco, Cal.	
"	26	"	38445	Webster Bros., Granville St., Vancouver, B.C.	3 "	45	Aylmer Canning Co., Aylmer, Ont.	
"	26	"	38446	Halpin's Grocery, 1169 Granville St., Vancouver, B.C.	3 "	45	Brighton Canning Co., Brighton, Ont.	
"	26	"	38447	H. H. Owens, 1100 Granville St., Vancouver, B.C.	3 "	45	Pratt Low Preserving Co., Santa Clara, Cal., U.S.A.	
"	26	"	38448	London Grocery, Granville St., Vancouver, B.C.	3 "	45	Christian Fritz, Vineland, Ont.	

SESSIONAL PAPER No. 14

CANNED TOMATOES.

RESULTS OF ANALYSIS.

Brand.	Grade.	RESULTS OF ANALYSIS.				Condition of Sample.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Net weight.	Capacity of can.	Water.	Solids.			
		oz.	cc.	oz.	oz.			
<i>Concluded.</i>								
Mico		28.0	880	14.2	13.8	Good	49716	
The Talisman	Selected	26.6	860	14.1	12.5	"	49717	
Cutting Packing Co.		28.2	860	18.5	19.7	"	49718	
J. F. POWER, INSPECTOR.								
Bear	California Tomatoes.	29.4	870	12.5	16.9	Good	38439	
"	"	28.5	885	11.6	16.9	"	38440	
Prince Edward's Pride	Choice	35.8	1080	15.8	20.0	"	38441	
Orchard City	Finest	34.5	1000	14.6	19.9	"	38442	
Alamo		29.4	855	12.5	16.9	"	38443	
Cutting Packing Co.		29.1	890	14.3	14.8	"	38444	
Canada First	Choice	29.2	885	11.4	17.8	"	38445	
Thistle	Selected	28.7	890	9.7	19.0	"	38446	
Talisman	"	25.7	870	12.5	13.2	"	38447	
Glenrose		34.3	1050	12.1	22.2	"	38448	

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

DISTRICT OF VICTORIA—

1912								
Sept. 10	Canned Tomatoes	49228	Windsor Grocery Co., 317 Goyt S., Victoria, B.C.	3 cans	35	The Kelowna Canning Co., Ltd., Kelowna B.C.		"Kelowna".....
" 11	"	49229	The West End Grocery Co., Ltd., 1002 Government St., Victoria, B.C.	3 "	50	Bloomfield P. Co., Ltd., Bloomfield, Ont.		"Quaker".....
" 12	"	49230	Copas & Young, 631 Fort St., Victoria, B.C.	3 "	45	Balfour Smye, Co., Hamilt'n Ont.		"Tartan".....
" 16	"	49231	Acton Bros. 1317 Douglas St., Victoria B.C.,	3 "	45	Bloomfield P. Co., Ltd., Bloomfield, Ont.		"Quaker".....
" 16	"	49232	H. & K. Grocery, 1425 Douglas St., Victoria, B.C.	3 "	50	Bayside Cann'g Co., Alviso, Santa Clara, Cal.		"Bohemian"....
" 18	"	49233	D. H. Ross & Co., 1317 Government St., Victoria, B.C.	3 "	50	The Kelowna Canning Co., Ltd., Kelowna, B.C.		"Kelowna".....
" 19	"	49234	Harrison & McDonald, Victoria, B.C....	3 "	40	The Kelowna Canning Co., Ltd., Kelowna, B.C.		"Kelowna".....
" 20	"	49235	F. E. Plummer, 1118 Quadra St Victoria, B.C.	3 "	45	Bloomfield P. Co., Ltd., Bloomfield, Ont.		"Quaker".....
" 24	"	49236	G. J. Bailey, 758 Fort St., Victoria, B.C.	3 "	45	Bay Side Canning Co., Alviso, Santa Clara, Cal.		"Bohemian"....
" 25	"	49237	Erskine & Co., 861 Johnston St., Victoria, B.C.	3 "	45	Bloomfield Packing Co., Bloomfield, Ont.		"Quaker".....

SESSIONAL PAPER No. 14
CANNED TOMATOES.

RESULTS OF ANALYSIS.

Brand.	Grade.	Net Weight.	Capacity of can.	Water.	Solids.	Condition of Sample.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		oz.	cc.	oz.	oz.			
Kelowna	Finest	20.8	660	8.6	12.2	Good.	49228	
Quaker	Hand packed	28.5	875	12.7	15.8	"	49229	
Tartan	"	33.4	1050	14.9	18.5	"	49230	
Quaker	Hand packed	29.1	890	12.9	16.2	"	49231	
Bohemian	Choice	27.8	890	11.3	16.5	"	49232	
Kelowna	Finest	34.7	900	13.9	20.8	"	49233	
Kelowna	"	21.1	660	9.3	11.8	"	49234	
Quaker	Hand packed	28.7	890	11.6	17.1	"	49235	
Bohemian	Choice	27.6	8.5	11.1	16.5	"	49236	
Quaker	Hand packed	20.4	635	9.5	10.9	"	49237	

D. O'SULLIVAN, INSPECTOR.

APPENDIX K.

BULLETIN No. 247—CHEESE.

OTTAWA, January 9, 1913.

Wm. HIMSWORTH, Esq.,
Acting Deputy Minister, Inland Revenue.

SIR,—I beg to hand you a report dealing with 141 samples of cheese, purchased throughout Canada in September and October, 1912.

The last inspection of Cheese occurred in October, 1908; and is reported in Bulletin No. 171 of this laboratory. In this Bulletin a recommendation for the standardization of Canadian Cheese was made, and the inspection then reported was held to justify as follows:—

Water limit—30%.

Fat (on dry substance) not less than 48%.

The samples submitted to analysis on that occasion had been wrapped in double paraffined paper, in order to prevent loss of water in the interval between their collection, and their examination here. This interval was between two and three months, and although the samples were meantime kept in cold storage, it was recognized that some loss of moisture must have taken place. In the variously suggested standards for Cheese in other countries no mention is made of water content; and my attention was later (March 1909) drawn to the fact that the water content of cheese is largely dependent upon the age of the article, the ordinary shrinkage of an 80 lb. cheese being from 2 to 3 pounds in the first month of ripening, and about one pound per month afterwards. (Letter from the Dairy and Cold Storage Commissioner, 29 March 1909).

In the present case an attempt has been made to learn the age of the cheese; and samples were enclosed in sealed bottles to prevent loss of moisture during shipment, and in storage. The results of analysis are therefore a better guide to the actual amount of moisture in market cheese, and particularly interesting when put into comparison with the table given on page 2 of Bulletin 171.

Inspection District.	No. of sample.	Percentage of water.		Mean.
		Maximum.	Minimum.	
Nova Scotia.....	10	34-10	28-80	32-16
Prince Edward Island.....	10	33-80	22-50	30-13
New Brunswick.....	10	36-38	30-20	32-53
Quebec.....	10	34-94	25-34	30-57
St. Hyacinthe.....	10	35-78	28-70	31-49
Montreal.....	10	37-62	26-28	31-26
Ottawa.....	11	36-76	25-46	31-74
Kingston.....	10	35-44	25-60	31-13
Toronto.....	10	32-00	22-94	28-70
Windsor.....	10	32-66	27-24	29-97
Manitoba.....	10	37-16	25-20	30-05
Nelson.....	10	35-52	27-20	32-34
Vancouver.....	10	32-76	26-80	30-08
Victoria.....	10	34-70	23-24	30-53
Total.....	141			Mean 30-90

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In view of these results, it is apparent that a somewhat wider limit for water than that suggested in Bulletin 171 may be justified, and it is possible that this might be set at 35%. The mean found for 141 samples now reported is 30.90%. For 237 samples of Bulletin 171, it was found to be 27.00%.

The fat, expressed as a percentage on the dry substance, is found to be as follows:—

Fat below 45%	.....	None.
“ from 45 to 46%	.....	12 samples.
“ “ 46 “ 47%	.....	27 “
“ “ 47 “ 48%	.....	28 “
“ “ 48 “ 49%	.....	18 “
“ “ 49 “ 50%	.....	13 “
“ above 50%	.....	43 “
Total.....		111

It thus appears that 74 samples, or more than fifty per cent of the collection, contain about 48 per cent of fat, calculated upon the dry substance of the cheese; while 102 samples, or over 70 per cent of the collection, contain above 47 per cent of fat. None of the samples in this collection contained less than 45 per cent of fat.

That a standard for fat in cheese should be established in the interest of both domestic and export trade, will readily be conceded. Of course the manufacture of whole milk cheese from normal milk, involves such periodic variation in the character of the cheese as corresponds to the variation found in milk itself, for the different seasons of the year. From this point of view it may be proper to consider a varying percentage of fat for cheese made at different periods of the year.

The data furnished herein, together with that found in Bulletin No. 171, may enable us to arrive at some desirable decision in this regard.

I beg to recommend the publication of this report as Bulletin No. 217.

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.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NOVA SCOTIA—								
1912								
Oct.	3 Cheese....	47117	Colchesters Co. P. Co-op.assocn. Truro, N.S.	3 lbs.	54	Unknown.....	Black & Co. Truro, N.S.	No wax on rind.
"	4 "	47118	Smith Proctor Halifax, N.S.	2½ "	50	Hazlewood Factory, P.E.I.		2 months old, no wax on rind.
"	4 "	47119	Rooney & Lovett, Halifax, N.S.	2¼ "	45	Unknown.....	Purchased through a jobber.	P.E.I. cheese 3 months old, no wax.....
"	5 "	47120	B.E. Wight, Lunenburg, N.S.	2¼ "	45	"	Jno. Tobin & Co Halifax, N.S.	Age not stated, no wax.....
"	5 "	47121	J. S. Berringer, Lunenburg, N.S.	2¼ "	40	"	Wentzells, Ltd. Halifax, N.S.	Age not stated, no wax.....
"	7 "	47122	P. T. Shea, Halifax, N.S.	2¼ "	50	Clover Hill, N. B. Cheese Factory.....	Mfr.....	Said to be July cheese, no wax
"	7 "	47123	J. D. Stewart, Halifax, N.S.	2¼ "	40	Unknown.....	Jno. Tobin & Co Halifax, N.S.	About 2 months old, no wax. Said to be P.E.I. cheese.
"	7 "	47124	Jas. Hogan, Halifax, N.S.	2¼ "	45	"	Nickerson & Hart.....	3 months old, no wax. Sold as P.E.I. cheese.
"	8 "	47125	S. Thomson, Dartmouth, N.S.	2¼ "	45	F. W. Fearman Hamilton, Ont	Mfr.....	4 months old, no wax.....
"	8 "	47126	G. A. Orman, Dartmouth, N.S.	2¼ "	45	Unknown.....	Unknown.....	Sold as Kings Co N.S. cheese, 2 ms. old, no wax...
DISTRICT OF PRINCE EDWARD ISLAND—								
Sept.	6 Cheese....	46217	R. J. Maddigan & Co ChTown P.E.I.	3 lbs	54		Carbell Bros., ChTown, P. E.I.	This season's make not covered with Paraffin or wax..
"	6 "	46218	Grant & Co., Ch. Town P. E.I.	3 "	54		A. J. Biffin, Ch-Town P.E.I.	" "
"	7 "	46219	A. Gates & Co., ChTown, P. E.I.	3 "	54		Dillon & Spillet Ch Town, P. E.I.	" "
"	14 "	46220	Coffin & Co. Ch-Town, P.E.I.	3 "	54	Unknown.		" "
"	17 "	46221	George Forbes, Vernon River Bridge P.E.I.	3 "	48	Vernon River F. Vernon River P.E.I.		" "
"	21 "	46222	Sanderson & Co. ChTown, P. E.I.	3 "	54	Unknown.		" "
ct.	1 "	46223	Braze McKay & Summerside, P.E.I.	3 "	51	Lot 16 Cheese Factory P.E.I.		" "
"	1 "	46224	Sinclair & Stewart, Summerside, P.E.I.	3 "	55	Egmont Bay F. P.E.I.		" "
"	3 "	46225	A. Currie & Co., Souris, P.E.I.	3 "	60	Souris Cheese F. P.E.I.		" "
"	3 "	46226	J. J. Hughes, Souris P.E.I.	3 "	54	Souris Dairying Co Souris, P. E.I.		" "

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CHEESE

RESULTS OF ANALYSIS.

Water.	Fat.	Total Ash.	Salt in Ash.	Curd by Difference.	Fat on dry Substance	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
R. J. WAUGH, INSPECTOR.							
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
31.70	32.40	3.30	1.12	32.30	47.43	47117	
31.86	33.00	3.80	1.22	31.34	48.43	47118	
33.36	33.00	3.32	1.00	30.32	49.52	47119	
31.10	31.20	3.40	0.59	31.30	47.34	47120	
33.98	31.20	3.44	0.86	31.48	47.25	47121	
28.80	37.20	3.72	1.15	30.28	52.24	47122	
33.86	32.40	3.14	1.32	30.60	48.98	47123	
31.20	34.20	2.74	0.90	31.86	49.60	47124	
32.60	33.00	3.80	1.48	30.60	48.94	47125	
30.22	36.00	3.66	1.18	30.12	51.58	47126	
WM. A. WEEKS, INSPECTOR.							
30.34	36.00	2.92	0.66	30.74	51.68	46217	
27.90	34.20	3.38	0.82	34.52	47.43	46218	
31.80	33.60	3.96	1.18	30.64	49.26	46219	
27.74	34.20	3.60	1.09	34.46	47.33	46220	
33.80	33.00	3.46	1.21	29.74	49.84	46221	
30.80	33.00	4.20	1.32	32.00	47.39	46222	
30.60	36.00	3.76	1.15	29.64	51.87	46223	
33.80	30.00	3.60	0.69	32.60	45.32	46224	
22.50	36.00	4.28	1.25	37.22	46.45	46225	
32.54	31.20	3.30	1.00	32.96	46.21	46226	

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

DISTRICT OF NEW BRUNSWICK

1912.								
Sept. 9	Cheese...	45690	Vanwart Bros., St. John, N.B.	3 lbs.	60		Northrup & Co., St. John, N.B.	g's Co., N.B. Cheese, 1912...
" 10	"	45691	McPherson Bros. St. John, N.B.	3 "	72	F. W. Fearman Co. Ltd. Hamilton, Ont.		
" 11	"	45692	Walter Gilbert, St. John, N.B.	3 "	48	McLaren Imperial Cheese Co. Toronto.		Paraffin waxed June Cheese.
" 11	"	45693	H. S. Francie, St. John, N.B.	3 "	60		G. E. Barbour Co., Ltd., St. John, N.B.	Albert Co., N.B. Cheese. Unwaxed Twin Cheese No. 27238.
" 14	"	45694	H. L. Alexander, St. John, N.B.	3 "	60		G. S. DeForest & Sons, St. John, N.B.	Twin Cheese, unwaxed No. 76. N.B. Cheese.
" 19	"	45695	Estate of J. Fred Shaw, St. John, N.B.	3 "	52		H.W. Cole, Ltd., St. John, N.B.	Twin Cheese, unwaxed.
Oct. 3	"	45696	G. T. Whelpley Estate, Fredericton, N.B.	3 "	54		H.W. Cole, Ltd., St. John, N.B.	Unwaxed P.E.I. Cheese.
" 4	"	45697	Yerxa Grocery Co., Woodstock, N.B.	3 "	54		A. F. Randolph & Son, Fredericton, N.B.	June Cheese. Twin Cheese. Unwaxed.
" 15	"	45698	Mills Eveleigh, Ltd., Sussex, N.B.	3 "	54	Mount Middleton Factory, Kings Co., N.B.		Twin Cheese, unwaxed.
" 16	"	45699	The 2 Barkers, Ltd., Moncton N.B.	3 "	54	Thos. G. Perry, Lower Ridge, N.B.		" "

DISTRICT OF QUEBEC—

Sept. 3	Cheese...	37462	Eudore Delisle, 2 Ave. Tachereau, Quebec.	2 lbs.	40	Unknown.....	Octave Jacques, Quebec.	Age unknown...
" 4	"	37463	O. Lacroix, 19 rue St. Joseph, Quebec.	2 "	44	McLaren's Imperial Cheese Co., Toronto.		Spring Cheese...
" 5	"	37464	W. Cantin, 133 rue du Pont, Quebec.	2 "	40		Dom. Fish & F. Co.	Age unknown...
" 6	"	37465	G. Gingras, 268 rue du Roi, Quebec.	2 "	40	Unknown.....	Emond & Cote.	Spring Cheese...
" 9	"	37466	Cantin & Frere, 271 rue St. Joseph, Quebec.	2 "	30	"	J. B. Reneaud & Cie.	Age unknown...
" 10	"	37467	C. S. Riverin, 50 rue de la Couronne, Quebec.	2 "	40	Gagne L'Ance, St. Jean Chicoutimi.	Philbert B ucher.	Made in Aug., 1912.

SESSIONAL PAPER No. 14

CHEESE.

RESULTS OF ANALYSIS.

Water.	Fat.	Total Ash.	Salt in Ash.	Curd by Difference.	Fat on dry Substance	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
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J. C. FERGUSON, INSPECTOR.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
31.10	33.60	3.20	0.82	32.10	48.60	15690
30.20	31.80	2.40	0.63	35.60	45.56	15691
30.50	31.80	3.26	0.76	34.44	45.75	45692
33.86	32.40	3.94	1.05	29.80	48.80	15693
32.80	35.40	2.60	0.69	29.20	52.67	45694
32.00	36.00	3.30	0.78	28.70	52.74	45695
32.08	33.60	3.42	0.72	30.90	49.40	45696
34.20	31.60	3.96	1.18	30.24	48.02	45697
36.38	31.80	3.80	1.12	28.02	46.62	45698
32.20	33.60	3.60	0.98	30.60	49.55	45699

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

28.22	37.20	3.06	0.92	31.52	51.82	37462
31.70	34.80	3.94	0.89	29.56	50.95	37463
25.34	37.20	3.86	0.72	33.60	49.87	37464
29.50	33.00	3.80	1.02	33.70	46.80	37465
28.82	37.20	2.90	0.69	31.08	52.26	37466
34.94	33.60	2.74	0.66	28.72	51.64	37467

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

DISTRICT OF QUEBEC—

1912.								
Sept. 11	Cheese...	37468	Myrand & Poullet, 70 rue de la Couronne, Quebec.	2 lbs..	38	Unknown.....	J. B. Reneaud & Cie.	Age Unknown ..
" 12	"	37469	Arthur Drolet, 714 rue St. Valier, Quebec.	2 "	49	"	Dom. Fish & Fruit Co.	"
" 13	"	37470	Arthur Rinfret, 614 rue St. Joseph, Quebec.	2 "	39	"	O. Jacques.....	"
" 16	"	37471	Hamel & Bedard, 728 rue St Valier, Quebec	2 "	40	Jos. Boucher, St. Hyacinthe.	Manufacturer...	Made in June, 1912.

DISTRICT OF ST. HYACINTHE—

Sept. 18	Cheese....	1401	Geo. Beaulac, Sorel.	1 $\frac{3}{4}$ lb.	32	Mr. Choquette, Mont. Johnson.	P. C. Lemoine, Sorel.	
" 17	"	1402	Schooner & Cie, Pierreville.	2 $\frac{1}{4}$ "	40	.....	Laporte, Martin & Cie, Montreal.	
" 24	"	1403	H. Claprod, St. Jean.	1 $\frac{1}{16}$ "	35	Thos. Barriere, St. Gregoire.		
" 25	"	1404	Art. Maclean, Bedford.	1 $\frac{1}{16}$ "	37		Forbes Bros., Montreal.	
" 26	"	1405	O. C. Selby, Dunham.	2 "	36	J. Strong, West Sutton.		
Oct. 1	"	1406	L. H. Olivier, Sherbrooke.	1 $\frac{1}{16}$ "	37	L. A. Corriveau, Magog.		
" 2	"	1407	E. Huard & Cie, Megantic.	2 "	36		L. Chaput fils & Cie, Montreal.	
" 3	"	1408	Gurin & Boulay, Coaticook.	2 $\frac{1}{4}$ "	38		"	
" 8	"	1409	J. A. Moquin, Eastman.	2 "	36	Unknown.....	Unknown.....	
" 14	"	1410	Thos. Hebert, St. Hyacinthe.	2 $\frac{1}{2}$ "	50	.....	Gunn, Langlois & Cie.	

DISTRICT OF MONTREAL—

Sept. 25	Cheese....	50921	M. Kilkerry, 208 M. R. Ave. E., Montreal.	2 lbs..	40	.....	Gunn, Langlois Paraffin Coated. & Co.	
" 25	"	50922	L. J. Pharneuf, 541 M. R. Ave E., Montreal.	2 $\frac{1}{4}$ "	45	Unknown.....	Unknown.....	
" 25	"	50923	E. St. Germain et Cie, 591 M. R. Ave. E., Montreal.	2 "	40	.....	.....
" 26	"	50924	A. Deslieres, 1130 A, Andre St., Montreal.	2 "	40	.....	Whyte Packing Co.	Paraffin Coated.

SESSIONAL PAPER No. 14

CHEESE.

RESULTS OF ANALYSIS.

Water.	Fat.	Total Ash.	Salt in Ash.	Curd by Difference.	Fat on dry Substance	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
<i>Concluded</i>							
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
32.70	36.00	3.30	0.95	28.00	53.40	37408	
32.14	32.40	3.56	0.98	31.00	47.74	37460	
31.80	33.00	3.42	1.15	32.08	48.30	37470	
30.52	37.80	3.08	0.66	28.60	54.40	37471	

J. C. ROULEAU, INSPECTOR.

28.70	37.20	2.70	0.40	31.40	52.17	1401
35.78	30.00	3.40	0.99	30.82	46.56	1402
30.20	33.60	3.30	0.92	32.00	48.13	1403
31.08	36.00	3.30	0.82	29.62	52.21	1404
34.28	30.60	3.38	0.99	31.74	46.40	1405
34.10	36.00	2.90	0.72	30.00	52.10	1406
30.10	32.40	3.78	1.28	33.72	52.34	1407
29.60	33.60	3.20	1.05	33.60	47.72	1408
32.36	35.40	3.50	1.32	28.74	52.33	1409
31.72	36.00	3.76	0.99	28.52	52.72	1410

J. J. COSTIGAN, INSPECTOR.

29.98	32.40	3.46	0.86	34.16	46.24	50921
28.12	33.60	3.86	1.25	34.12	46.94	50922
29.64	36.06	3.60	1.35	30.76	51.02	50923
32.90	31.20	3.70	1.12	32.20	46.50	50924

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

DISTRICT OF MONTREAL—

1912.								
Sept. 26	Cheese	50925	S. Lalonde et fils, 578 Marie Ann E., Montreal.	2 lbs. 3 oz.	43		W. Champagne, Montreal.	
" 26	"	50926	P. Brunet Cie, 699 M. R. Ave. E., Montreal.	2 lbs.	40		Z. Limoges, Montreal.	
" 26	"	50927	H. Longtin, 347 Boyer St., Montreal.	2 "	38	Unknown	Unknown	Paraffin Coated.
" 26	"	50928	Swift's Store, Fairmount Ave., Montreal.	2 "	46		Whyte Packing Co.	
" 26	"	50929	D. Hamilton, 71 Fairmount Ave., Montreal.	2 "	38		Z. Limoges, Montreal.	
" 26	"	50930	"	2 "	48		"	

DISTRICT OF OTTAWA—

Aug. 31	Cheese	50202	C. A. Farmer & Son, Perth Ont	3 lbs.	60	3rd line, Bathurst, Factory		Labelled M.14 on Box, not coated with paraffin.
Sept. 4	"	50203	A. S. Moreland, Ottawa.	"	"			Made in June at Bourget, Ont.
" 6	"	50204	F. H. Clifford, Brockville.	"	"	Strong & Clark.	Derbyshire, Brockville.	Roseville Brand coated with paraffin.
" "	"	50205	J. Culbert, Brockville.	"	"	Geo. Carr, Fairfield.	Mfr.	Made in June, not coated.
" 7	"	50206	Jas. H. Bradley, Prescott.	"	57	Jno. Tretwell, Grenville Factory.		Made in August, not coated.
" 16	"	50207	E.M. Lerner & Son, Ottawa.	4 1/4 "	71	J. Campbell, Ormond.		" "
" 16	"	50208	J. Moynour, Ltd, Ottawa.	2 1/2 "	38	C. St. Onge, Embrun.		" "
" 16	"	50209	Matthews, Laing Ltd By Ward Mark, Ottawa.	2 1/2 "	4f	Unknown		Made Sept., 1911 at Jockvale, Ont.
" 16	"	50210	J. Freedman, Ottawa.	4 1/2 "	73	Fairview Factory, West Templeton.		Made in August.
" 18	"	50211	R. Harrison, Merrickville.	2 "	35	Rideau Valley.		Made in July.
" 20	"	51626	McDonald Bros, Gladstone Av Ottawa.	3 "	38	G. H. Taylor, Dalmeny, Ont		"Gordon Model Factory—made in August.

SESSIONAL PAPER No. 14

CHEESE.

RESULTS OF ANALYSIS.

Weight.	Fat.	Total Acid.	Salt of Acid.	Curd by Diluted Acid.	Per cent Moisture.	Remarks.	Opinion of the Analyst.
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Continued.

30.88	34.60	3.60	1.52	30.32	49.0		5025
31.90	34.80	3.44	0.31	30.46	50.50		5026
31.42	34.00	3.24	0.63	32.64	47.8		5027
26.28	34.80	3.72	1.92	35.20	47.0		5028
7.62	0.00	2.74	1.01	24.64	55.0		5029
2.82	31.80	2.94	0.66	32.44	47.45		5030

J. A. RUCKEY, INSPECTOR.

32.44	35.40	3.74	1.08	28.72	52.46		5032
32.26	32.40	2.84	1.18	31.40	47.00		5033
30.76	0.20	3.46	0.85	29.58	47.75		5034
32.80	31.80	3.62	1.08	31.78	47.32		5035
35.44	29.40	3.48	0.95	31.98	45.33		5036
32.12	31.80	3.48	0.85	32.60	46.85		5037
32.40	32.40	3.00	0.69	32.20	47.92		5038
28.74	37.20	3.36	0.82	30.70	53.20		5039
25.46	36.00	3.66	1.25	34.88	48.29		5040
32.88	30.60	3.58	1.15	32.94	45.58		5041
28.48	33.00	4.08	1.61	31.44	46.44		5042

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

DISTRICT OF KINGSTON—

1912.								
Sept. 3	Cheese....	50701	Wm. Davies, Kingston.	3 lbs.	54	J. Gibson, Kingston.		Made in May.
" 3	"	50702	J. Gilbert, Kingston.	2 1/2 "	50	A. E. Bradshaw Harrowsmith,		
" 3	"	50703	J. E. Parly, Kingston.	2 "	40	A. McLean, Kingston.		
" 3	"	50704	J. Campbell, Kingston.	2 1/2 "	50	J. Y. Parkhill, Kingston.		
" 3	"	50705	J. A. Percy Kingston.	2 1/2 "	50	J. Y. Parkhill, Kingston.		
" 3	"	50706	W. J. Arnill, Kingston.	2 "	36	A. Maclean, Kingston.		
" 4	"	50707	W. E. Hopkin- son, Kingston.	2 1/2 "	45	Unknown		
" 4	"	50708	H. M. Stover, Kingston.	2 "	36	J. Y. Parkhill, Kingston.		
" 4	"	50709	W. J. Lee, Kingston.	2 "	36	J. Y. Parkhill, Kingston.		
" 4	"	50710	P. A. Happner, Kingston.	4 "	34	A. Maclean, Kingston.		

DISTRICT OF TORONTO—

Sept. 10	Cheese	49482	A. E. Browne, 195 A Carleton St. Toronto.	2 lbs.	36	McLaren's Im- perial Cheese Co., Toronto.		Vendor says he is quite sure cheese was coated with paraffin.
" 10	"	49483	D. M. Cooper, 259 Wellington St., Toronto.	2 "	40	Willard & Co., Prov. Merchant, Toronto.		
" 10	"	49484	C. Grant, Gerard St., east, Toronto.	2 1/2 "	40	John J. Fee, Toronto.		
" 11	"	49485	H. Vankorhnet, 169 Winton ave., Toronto.	2 "	45	Rutherford-Mar- shall, Ltd., Tor- onto.		
Sept. 11	"	49486	J. & W. McFar- ren, 214 Queen st. east, Toronto.	2 "	43	McLaren's Im- perial Cheese Toronto.		Made in June and coated with paraffin.
" 11	"	49487	C. Robertson, 108 Shuter St., Toronto.	2 "	38	Willard & Co., Toronto.		
" 12	"	49488	E. K. Sealey & Co., 63 Jarvis St., Toronto.	2 "	34	Gunns, Ltd., Toronto.		
" 12	"	49489	C. F. Thorne, 107 Wassin St Toronto.	2 "	40	McLarens Im- perial Cheese Co., Toronto.		Vendor says he is quite sure of its being coat- ed with par- affin.
" 12	"	49490	John Davison, 221 Bathurst St., Toronto.	2 "	42	Morely & Ew- ing, Toronto.		
" 12	"	49491	A. White, College St., Toronto.	2 1/2 "	42	Matthews Laing Ltd., Toronto		

SESSIONAL PAPER No. 14

CHEESE.

No.		ANALYSIS.					Remarks.
1	2	3	4	5	6		
Water.	Fat	Total Solids	Solids not Fat	Char. by Difference	Acid Value	Signed and Opinions of the Chief Analyst.	
				per cent.	per cent.		

JAS. HOGA

32.56	19.00	61.00	41.00	20.00	17.50	
35.11	18.00	63.00	43.00	20.00	19.50	
32.30	19.00	61.00	41.00	20.00	17.50	
29.03	18.00	57.00	37.00	19.00	16.00	
31.84	18.00	59.84	39.84	19.84	17.50	
32.73	18.00	60.73	40.73	20.73	17.50	
33.10	18.00	61.10	41.10	21.10	17.50	
30.50	18.00	58.50	38.50	19.50	17.50	
27.81	18.00	55.81	35.81	17.81	17.50	
25.90	18.00	53.90	33.90	15.90	17.50	

H. J. DAGLER, Chief Analyst

32.00	17.20	49.20	29.20	12.00	17.50	
30.98	16.50	47.48	27.48	11.00	17.50	
28.50	16.00	44.50	24.50	8.00	17.50	
31.10	16.00	47.10	27.10	11.00	17.50	
28.96	16.00	44.96	24.96	8.96	17.50	
28.28	32.10	60.38	28.28	16.03	15.17	10.00
29.66	32.10	61.76	29.66	17.20	14.00	10.00
28.06	36.00	64.06	32.06	15.74	10.00	10.00
26.16	34.80	60.96	28.16	13.74	17.00	10.00
22.94	35.10	58.04	25.94	12.86	14.71	10.00

4 GEORGE V., A. 1914

BULLETIN No. 247—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF WINDSOR—								
1912.								
Sept. 5	Cheese....	48276	E. R. Newman, London, Ont.	2 lbs.	40		J. Garvey & Son London, Ont.	Not Paraffined.
" 5	"	48278	Thos. Shaw, London, Ont.	3 "	60		Masuret & Co., London, Ont.	"
" 5	"	48280	P. Sands, Lon- don, Ont.	3 "	70		A. M. Smith & Co., London, Ont.	"
" 6	"	48281	H. Ranshaw, don, Ont.	2 $\frac{1}{4}$ "	62		"	Made in Jun. 1912. <i>Not paraffined.</i>
" 6	"	48282	Willis & Co., London, Ont.	3 "	58	Thorndale Cheese Fac- tory.		Made in May, 1912. <i>Not paraffined.</i>
" 6	"	48283	John Diprose, London, Ont.	3 "	50		A. W. Smith & Co., London, Ont.	Made in June, 1912. Not Paraffined.
" 6	"	48284	Jas. O'Donnell, London, Ont.	2 $\frac{1}{2}$ "	45		Jas. Morley, London, Ont.	"
" 9	"	48285	R. McIntosh, London, Ont.	2 $\frac{1}{2}$ "	60		Scandretth Bros. London, Ont.	"
" 9	"	48286	R. J. Wood, Lon- don, Ont.	2 $\frac{1}{2}$ "	"		Jas. Morley, London, Ont.	"
" 9	"	48287	Wm. Smith, London, Ont.	2 $\frac{1}{2}$ "	45		J. Garvey & Son London, Ont.	"
DISTRICT OF MANITOBA—								
Sept. 12	Cheese....	48741	Peter Watt, Trancona.	3 lbs.	65	Unknown.....	Gordon Ironside & Fares Co., Winnipeg.	Canadian made.
" 17	"	48742	J. E. Manning, Sargent Ave., Winnipeg.	3 "	60	"	The Jobin Mar- rin Co., Ltd..	"
" 17	"	48743	R. Seymour, Sargent Ave., Winnipeg.	3 "	60	"	Unknown.....	"
" 17	"	48744	McKenzie and Reeve, Sur- gent Ave W'pg	3 "	65	"	"	"
" 17	"	48745	Conly & Yost, Sargent Ave., Winnipeg.	3 "	60	"	A Macdonald & Co., Winnipeg.	"
" 18	"	48746	B. A m a s o n Sargent Ave., Winnipeg.	3 "	60		Campbell Bros. and Wilson, Winnipeg.	
" 18	"	48747	C. C o r n e i l Langside St., Winnipeg.	3 "	60		The Codville Co Winnipeg.	
" 18	"	48748	W. S. Shipman, Sargent Ave., Winnipeg.	3 "	66		The Codville Co., Winnipeg.	
" 30	"	48749	P. H. Menlove, Winnipeg.	3 "	60		The ⁵ Codville Co., Winnipeg.	
" 30	"	48750	Templeton & Co., Winnipeg.	3 "	60		A. Macdonald & Co., Winnipeg.	

SESSIONAL PAPER No. 14

CHEESE.

RESULTS OF ANALYSIS.

Water.	Fat.	Total Ash.	Salt in Ash.	Curd by Difference.	Fat on dry Substance	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
JOHN TALBOT, INSPECTOR.							
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
29.64	35.60	3.70	1.05	30.06	52.01	48275	
31.92	34.20	3.64	0.75	30.24	50.23	48278	
29.20	33.60	3.99	0.99	33.30	47.45	48280	
29.00	33.00	2.30	1.05	35.70	46.49	48281	
27.24	35.60	3.60	0.92	32.56	50.50	48282	
28.00	34.80	3.80	0.92	33.40	48.33	48283	
31.10	31.20	3.76	0.86	33.94	45.28	48284	
30.92	34.80	3.26	0.86	31.02	50.37	48285	
32.66	31.20	3.70	0.95	32.41	46.32	48286	
30.00	33.60	3.56	0.86	32.84	48.00	48287	
A. C. LARIVIERE, INSPECTOR.							
31.20	32.40	2.76	0.86	33.64	47.09	48741	
29.74	32.40	3.36	0.92	34.50	46.25	48742	
37.16	30.00	4.58	1.02	28.26	47.77	48743	
31.54	32.40	3.50	0.72	32.56	47.32	48744	
25.20	37.80	4.28	1.55	32.72	50.53	48745	
28.72	32.40	3.74	1.18	35.14	45.45	48746	
28.41	34.20	3.40	0.69	33.96	47.79	48747	
27.46	33.60	2.72	0.89	36.22	46.32	48748	
29.82	36.00	3.60	1.18	30.58	51.29	48749	
31.30	33.60	3.66	1.15	31.44	48.90	48750	

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

DISTRICT OF NELSON—

1912.								
Sept.	3	Cheese....	49684	M. Scally, Nelson, B.C.	2 lbs.	45	Swift Canadian Co., Nelson.	Waxed.....
"	3	"	49695	Bell Trading Co Nelson, B.C.	2 "	45	Olive Dorin, Strand, Mont- real.	"
"	6	"	49697	Diamond Vale T. Co., Merritt, B.C.	2 "	50	Kelly Douglas Co., Vancouver.	Waxed.....
"	3	"	49705	G. B. Armstrong Merritt, B.C.	2 "	50	F. R. Stewart & Co., Vancouver.	"
"	9	"	49723	L. C. Masson, Revelstoke, B.C.	2 "	50	P. Burns & Co., Revelstoke, B.C.	Not waxed.....
"	9	"	49728	Bourne Bros., Revelstoke, B.C.	2 "	50	P. Burns & Co., Revelstoke, B.C.	"
"	10	"	49738	C. B. Hume & Co., Revel- stoke, B.C.	2 "	50	J. D. Moore & Co., St. Marcy's.	"
"	10	"	49743	Revelstoke Meat Mkt., Revel- stoke, B.C.	2 "	50	Swift Canadian Co., -Edmon- ton.	"
"	23	"	49744	C. A. Warren, Golden, B.C.	2 "	50	Plunkett and Savage, Cal- gary.	"
"	23	"	49751	H. G. Parson, Ltd., Golden, B.C.	2 "	50	Kelly, Douglas Co., Vancou- ver.	Waxed.....

DISTRICT OF VANCOUVER—

Sept.	27	Cheese....	38399	W. H. Walsh Co Ltd., Eburne, B.C.	1 lb...	25	Unknown.....	Naismith & Co. Vanc.	"
"	27	"	38400	Eburne Grocery Eburne, B.C.	1 "	25	"	W. H. Makin & Co., Vanc.	"
"	27	"	38401	T. W. Turner, Pender St., Vancouver.	1 "	20	"	F. R. Stewart, Vanc	"
"	27	"	38402	Eburne Trading Co., Eburne, B.C.	1 "	20	"	F. R. Stewart, Vanc.	"
"	27	"	38403	David Spencer, Ltd., Vnn..	1 "	20	Ingersoll Cheese Co., Ingersoll, Ont.	"	"
"	28	"	38404	Frank Wright, Seymour St., Van.	1 "	20	Unknown.....	F. R. Stewart, Vanc.	"
"	28	"	38405	W. Cowling, 1374 Pender St., Van.	1 "	25	"	Milne Produce Co., Vanc.	"
"	28	"	38406	D. McGregor, Pender St. W., Vancouver.	1 "	25	"	Milne Produce Co., Vanc.	"
"	28	"	38407	J. Johnson, 1112 Pender St., W, Vancouver.	1 "	25	"	Kelly Douglas, Vanc.	"
"	28	"	38408	J. R. Gosling, 942 Pender W, Vancouver.	1 "	25	"	Milne Produce Vanc.	"

SESSIONAL PAPER No. 14

CHEESE.

RESULTS OF ANALYSIS

Water.	Lat.	Total Ash.	Sol. in Ash.	Diff. by Gravimetry.	Lat. of Sample.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
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THOS. PARKER, INSPECTOR.

31-20	31-80	3-42	0-78	33-58	46-22	19684	
35-52	30-00	3-30	0-63	31-18	46-51	19685	
33-40	31-20	3-40	0-78	32-00	46-87	19687	
33-80	31-20	3-62	0-66	32-50	47	19711	
27-20	36-00	4-30	1-12	32-50	49-45	19721	
35-00	30-00	2-92	0-72	32-08	46-90	19728	
30-40	34-00	2-80	0-56	31-80	47-31	19738	
34-08	30-00	3-12	0-59	32-80	45-56	197	
31-10	33-00	3-50	0-84	31-80	48-79	19744	
31-68	31-80	3-80	0-92	29-72	50-31	19757	

J. F. POWER, INSPECTOR.

30-60	36-00	2-64	0-66	30-76	47-87		
32-32	33-60	3-16	0-63	30-92	47-64	8401	
29-00	33-00	2-80	0-59	33-20	46-48	38402	
30-48	37-60	3-20	0-59	32-72	48-31	38403	
30-58	36-00	3-52	0-66	29-50	51-86	38404	
32-76	34-80	2-82	0-56	29-62	51-75	38404	
26-90	37-20	3-60	0-95	32-30	50-88	38405	
31-60	34-80	3-06	0-59	30-54	50-08	38406	
29-80	37-20	3-22	0-86	29-78	52-99	38407	
20-87	37-80	3-60	0-92	29-88	51-93	38408	

4 GEORGE V., A. 1914

BULLETIN No. 247—

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

DISTRICT OF VICTORIA—

1912								
Sept. 10	Cheese...	49168	Windsor Groery Co., 817 Douglas St., Victoria, B.C.	2 lbs.	50		F. R. Stewart & Co., Victoria, B.C.	
" 11	"	49169	The west End Grocery Co., Ltd., 1002 Govt. St., Victoria, B.C.	2 "	50		R. P. Rithet & Co., Victoria, B.C.	
" 12	"	49170	Copas & Young, Victoria, B.C.	2 "	40		F. R. Stewart & Co., Victoria, B.C.	
" 16	"	49171	Acton Bros., Victoria, B.C.	2 "	45		Swift Canadian Co., Victoria, B.C.	
" 16	"	49172	H. & K. Grocery Victoria, B.C.	2 "	50	McLarens Imperial Cheese Co., Ltd., Ingersoll, Ont.		
" 18	"	49173	D. H. Ross & Co., Victoria, B.C.	2 "	50		Swift Canadian Co., Victoria, B.C.	
" 18	"	49174	Harrison & McDonald, Victoria, B.C.	2 "	50		Naismith & Co. Vancouver,	
" 20	"	49175	F. E. Plummer, Victoria, B.C.	2 "	50		Simon Leiser & Co., Victoria, B.C.	
" 24	"	49176	E. G. Bailey, Victoria, B.C.	2 "	50		Swift Canadian Co., Victoria, B.C.	
" 25	"	49177	Erskine & Co., Victoria, B.C.	2 "	50		R. P. Rithet & Co., Victoria, B.C.	

SESSIONAL PAPER No. 14

CHEESE.

RESULTS OF ANALYSIS.

Water.	Fat.	Total Ash.	Salt in Ash.	Curd by Difference.	Fat on dry Substance.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
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D. O'SULLIVAN, INSPECTOR.

P. C.	P. C.	P. C.	P. C.	P. C.	P. C.	P. C.
23.24	39.00	3.80	1.25	31.96	50.80	1018
30.56	34.80	3.02	0.87	31.62	50.11	1019
34.70	31.20	2.80	0.72	31.30	47.77	1070
29.16	33.60	3.86	0.92	31.38	47.41	1071
35.40	31.20	3.58	0.86	31.82	46.84	1072
33.30	31.20	3.32	0.91	32.18	46.77	1073
32.32	32.40	3.40	0.92	31.88	47.81	1074
27.80	31.80	3.20	0.99	34.20	48.20	1075
30.60	36.00	3.54	.72	29.8	51.87	1076
30.20	35.10	3.19	0.86	31.30	50.71	1077

APPENDIX L.

BULLETIN No. 248—GROUND BLACK PEPPER.

OTTAWA, Jan. 25, 1913.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister Inland Revenue.

SIR,—I beg to hand you a report upon 280 samples of Ground Black Pepper, purchased in September and October last, in fourteen of the Food Inspection Districts of Canada.

It has generally been accepted that mineral matter (ash) should not exceed 7 per cent, in black pepper.

I pointed out, in Bulletin No. 203, of 1910 which contains a report of our last general inspection of pepper, that this standard has no legal recognition, although there can be no doubt of its justifiability, in the light of very large experience with commercial pepper. Samples herein reported as containing but slight excess of Ash, and not otherwise fraudulent, I have adjudged as doubtful.

Upon this basis the following general summary of the collection is made:—

District.	Sold as Com- pound.	Genuine.	Adulter- ated.	Doubtful	Total.
Nova Scotia.....		19	0	1	20
Prince Edward Island.....		17	0	3	20
New Brunswick.....		19	1	0	20
Quebec.....		9	10	1	20
St. Hyacinthe.....	1	9	10	0	20
Montreal.....		12	8	0	20
Ottawa.....		13	7	0	20
Kingston.....		17	1	2	20
Toronto.....		17	3	0	20
Windsor.....		16	2	2	20
Manitoba.....		18	2	0	20
Nelson.....		18	1	1	20
Vancouver.....		20	0	0	20
Victoria.....		19	0	1	20
	1	223	45	11	280

SESSIONAL PAPER No. 14

It will be noted that expressed in percentages, the showing is as below:—

Genuine.....	80 per cent.
Adulterated.....	17 "
Doubtful.....	4 "

A summary of the results of inspection of pepper from 1876 to 1910 appears in Bulletin No. 203, and the average adulteration is there shown to be 40 per cent, for the period.

Of black peppers examined in 1910, 18 per cent were found to be adulterated. The present report shows very little improvement, and indicates that more frequent examination of this article is necessary; and that ascertained frauds must be penalized, as the Act provides.

The Districts of Quebec, St. Hyacinthe, Montreal and Ottawa are those in which the greatest amount of adulteration is found.

I beg to recommend publication of this report as Bulletin No. 218.

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.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA—

1912.										
Sept.	11	Ground B. Pepper	46801	Wentzells Ltd., Halifax, N.S.	$\frac{3}{4}$	lb	18	J. P. Mott & Co.	Mfrs.	
"	13	"	46802	Jno. P. Mott & Co., Halifax, N.S.	$\frac{3}{4}$	"	Nil	Vendors.		
"	13	"	46803	Nat. Drug & Chem Co., Halifax, N.S.	$\frac{3}{4}$	"	18	"		
"	16	"	46804	Morrison & Williams, Halifax, N.S.	$\frac{3}{4}$	"	15	S. H. Ewing, Montreal.	J. F. Crowe & Co., Halifax, N.S.	
"	17	"	46805	Bauld Bros., Ltd. Halifax, N.S.	$\frac{3}{4}$	"	18	Unknown. Said to be John P. Mott & Co.		
"	17	"	46806	Jas. Scott & Co., Halifax, N.S.	$\frac{3}{4}$	"	30	W. H. Schwartz & Sons, Halifax, N.S.	Mrs.	
"	18	"	46807	Corkum & Ritcey, Halifax, N.S.	$\frac{3}{4}$	"	18	Gorman Eckert Co., London, Ont.	Mrs.	
"	18	"	46808	A. J. Baker & Co. Halifax, N.S.	$\frac{3}{4}$	"	30	Gorman Eckert Co., London, Ont.	Mrs.	
"	19	"	46809	W. H. Schwartz & Sons, Halifax, N.S.	$\frac{3}{4}$	"	15	Vendors.		
"	19	"	46810	E. W. Crease & Son, Halifax, N.S.	$\frac{3}{4}$	"	19	Jno. P. Mott & Co., Halifax, N.S.	Mrs.	
"	19	"	46811	Dillon Bros., Halifax, N.S.	$\frac{3}{4}$	"	22	Todhunter & Mitchell, Toronto.	Mrs.	
"	24	"	46812	L. C. Gardner & Co., Yarmouth, N.S.	$\frac{3}{4}$	"	20	Dearborn & Co., St. John, N.B.		
"	27	"	46813	Eisener & Coleman, Dartmouth, N.S.	$\frac{3}{4}$	"	20	C. H. Cochrane Co., Ottawa.	Mrs.	
Oct.	3	"	46814	Colchester Co.'y Farmers' Co-op. Associat'n, Truro, N.S.	$\frac{3}{4}$	"	27	W. H. Schwartz & Sons, Halifax, N.S.	Mrs.	
"	3	"	46815	Angus & Pollock, Truro, N.S.	$\frac{3}{4}$	"	22	Unknown.		
"	3	"	46816	A. F. Ross & Co., Truro, N.S.	$\frac{3}{4}$	"	24	Dearborn & Co., St. John, N.S.	Mrs.	
"	5	"	46817	J. B. Young, Lunenburg, N.S.	$\frac{3}{4}$	"	25	Jno. P. Mott & Co., Halifax, N.S.	"	
"	5	"	46818	J. W. Smeltzer, Lunenburg, N.S.	$\frac{3}{4}$	"	19	W. H. Schwartz & Sons, Halifax, N.S.	"	
"	5	"	46819	B. G. Oxner, Lunenburg, N.S.	$\frac{3}{4}$	"	15	Barbour & Co., St. John, N.S.	"	
"	5	"	46820	J. S. Berringer, Lunenburg, N.S.	$\frac{3}{4}$	"	20	W. A. Freeman Co., Hamilton Ont.		

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

DISTRICT OF PRINCE EDWARD ISLAND—

1912								
Sept.	6	Ground B. Pepper	46227	Grant & Co. Ch. Town, P.E.I.	$\frac{3}{4}$	lb	21	Dearbon & Co., St. John, N.B.
"	6	"	46228	J. G. Jamieson, Ch. Town.	$\frac{3}{4}$	"	30	Lymans, Ltd., Montreal.
"	7	"	46229	A. Gates & Co., Ch. Town.	$\frac{3}{4}$	"	21	Chapeau Fils, Montreal.
"	9	"	46230	Coffin & Co., Ch. Town.	$\frac{3}{4}$	"	21	Barbour & Co., St. John, N.B.
"	10	"	46231	The 2 Mae's, Ch. Town.	$\frac{3}{4}$	"	30	Lymans Ltd., Montreal.
"	10	"	46232	McKinnon Drug Co., Ch. Town.	$\frac{3}{4}$	"	24	Unknown.
"	12	"	46233	A. J. Warren, Ch. Town.	$\frac{3}{4}$	"	24	J.A. Farquharson & Co. Ch. Town, P.E.I.
"	12	"	46234	J. G. Passmore, Ch. Town.	$\frac{3}{4}$	"	24	Crown Spice Mills.
"	14	"	46235	Reddin Bros., Ch. Town.	$\frac{3}{4}$	"	30	Lymans Ltd., Montreal.
"	17	"	46236	George Forbes, Vernon River Bridge, P.E.I.	$\frac{3}{4}$	"	18	Unknown.
"	17	"	46237	George Carver, Pownall, P.E.I.	$\frac{3}{4}$	"	21	Unknown.
"	18	"	46238	H. Currie, Peakes Sta., Ch. Town.	$\frac{3}{4}$	"	21	Crown Spice Mills, Ch. Town, P.E.I.
"	19	"	46239	M. Duffy, Ch. Town, P.E.I.	$\frac{3}{4}$	"	30	White Swan, S. & C. Ltd., Toronto.
"	21	"	46240	Apothecaries Hall, Co., Ch. Town.	$\frac{3}{4}$	"	24	Unknown.
"	21	"	46241	Sanderson & Co., Ch. Town.	$\frac{3}{4}$	"	21	Schwartz, Halifax, N.S.
Oct.	1	"	46242	Gourlies Ltd., Summerside, P.E.I.	$\frac{3}{4}$	"	30	Lymans Ltd., Montreal.
"	1	"	46243	Sinclair & Stewart, Ch. town.	$\frac{3}{4}$	"	30	Schwartz & Sons, Halifax, N.S.
"	1	"	46244	Brace McKay & Co., Ch. town.	$\frac{3}{4}$	"	24	Pure Gold Co., Toronto.
"	3	"	46245	A. Currie & Co., Souris, P.E.I.	$\frac{3}{4}$	"	24	Crown Spice Mills, Ch. Town, P.E.I.
"	3	"	46246	Mathew & McLean, Ch. town.	$\frac{3}{4}$	"	24	Schwartz & Sons Halifax, N.S.

DISTRICT OF NEW BRUNSWICK—

Sept.	4	Ground B. Pepper	45700	Dearborn & Co., St. John, N.B.	$\frac{3}{4}$	lb...	15	Vendors.
"	4	"	50401	Puddington, Wetmore, & Morrison, St. John, N.B.	$\frac{3}{4}$	"	18	"

SESSIONAL PAPER No. 14

GROUND BLACK PEPPER.

RESULTS OF ANALYSIS.

RESULTS OF ANALYSIS.		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		
WM. A. WEEKS, INSPECTOR.			
p. c.			
5.42	Pepper tissues only	46227	Genuine.
5.00	" "	46228	"
5.40	" "	46229	"
7.58	" "	46230	"
5.72	" "	46231	"
5.30	" "	46232	"
8.76	" "	46233	Excess mineral matter. Doubtful.
5.46	" "	46234	Genuine.
4.64	" "	46235	"
5.94	" "	46236	"
8.04	" "	46237	Excess Mineral matter. Doubtful.
6.56	" "	46238	Genuine.
8.16	" "	46239	Excess mineral matter. Doubtful.
4.36	" "	46240	Genuine.
5.00	" "	46241	"
5.08	" "	46242	"
4.80	" "	46243	"
5.34	" "	46244	"
5.54	" "	46245	"
5.84	" "	46246	"
J. C. FERGUSON, INSPECTOR.			
5.76	Pepper tissues only	45700	Genuine.
7.90	" "	50401	"

4 GEORGE V., A. 1914

BULLETIN No. 248—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NEW BRUNSWICK								
1912.								
Sept. 4	Ground B. Pepper	50402	G. E. Barbour Co., Ltd., St. John, N.B.	$\frac{3}{4}$ lb.	23	Vendors		
" 5	"	50403	H.W.Cole, Ltd., St. John, N.B.	$\frac{3}{4}$ "	21	"		
" 5	"	50404	McCready & Son Ltd., St. John N.B.	$\frac{3}{4}$ "	15	"		
" 9	"	50405	2 Barkers, Ltd. St. John, N.B.	$\frac{3}{4}$ "	15	"		
" 9	"	50406	Baird & Peters, St. John, N.B.	$\frac{3}{4}$ "	13	"		
" 10	"	50407	W. A. Simonds, St. John, N.B.	$\frac{3}{4}$ "	23	Todhunter, Mitchell & Co., Toronto, Ont.		
" 11	"	50408	E. W. Rowley, St. John, N.B.	$\frac{3}{4}$ "	21	L. N. Thorne, St. John, N.B.		
" 16	"	50409	M. E. Grass, St. John, N.B.	$\frac{3}{4}$ "	30	White Swan Spices Co., Toronto.		
" 25	"	50410	J. & J. S. Titus, St. Martins, N.B.	$\frac{3}{4}$ "	23		Jones & Schofield, St. John, N.B.	
Oct. 3	"	50411	M. C. Jewett, Fredericton,	$\frac{3}{4}$ "	20		A. F. Randolph, & Son., Fredericton, N.B.	
" 4	"	50412	Yerxa Grocery Co., Woodstock, N.B.	$\frac{3}{4}$ "	30	White Swan spices & Cerals, Toronto, Ont.		
" 8	"	50413	J. L. White, Grand Falls, N.B.	$\frac{3}{4}$ "	30	Unknown	Unknown	
" 15	"	50414	Sussex Mercantile Co., Ltd., Sussex, N.B.	$\frac{3}{4}$ "	21		H.W.Cole, Ltd., St. John, N.B.	"Thistle" brand,
" 16	"	50415	Cassidy & Belliveau, Moncton, N.B.	$\frac{3}{4}$ "	24		Reed Co., Ltd., Moncton, N.B.	
" 17	"	50416	Baird & Peters, Newcastle, N.B.	$\frac{3}{4}$ "	20	Vendors		
" 17	"	50417	James Mailer, Newcastle, N.B.	$\frac{3}{4}$ "	30		Baird & Peters, Newcastle, N.B.	
" 18	"	50418	J. B. Snowball Co., Ltd., Chatham, N.B.	$\frac{3}{4}$ "	30	Todhunter, Mitchell & Co., Toronto, Ont.		
" 19	"	50419	Frank P. Gatain, Bathurst, N.B.	$\frac{3}{4}$ "	24		H.W., Cole, Ltd. St. John, N.B.	"Thistle" brand

DISTRICT OF QUEBEC

Sept. 3	Ground B. Pepper	37472	Endore Delisle, 2 Ave. Taschereau, Quebec	$\frac{3}{4}$ lb.	18	Herron and Leblanc.	Mrs.	
" 5	"	37473	N. Cantin, 133 Rue du Pont, Quebec.	$\frac{3}{4}$ "	18	Unknown	Unknown	

SESSIONAL PAPER No. 14

GROUND BLACK PEPPER

TABLE 1.

RESULTS OF ANALYSIS				No. of Samples	Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.				
<i>Guatemala</i>					
6.6					
7.32	Pepper tissues only			5001	
6.09	"			5002	
6.90	"			5003	
5.24	"			5004	
5.48	"			5005	
5.58	"			5007	
6.40	"			5008	
4.76	"			5009	
4.66	"			5011	
5.90	"			5012	
4.46	"			5013	
4.70	"			5014	
4.90	"			5015	
7.40	"	with clove cells	rust	5017	1.0000—No. of germs per gram, 1.5 No. of bacteria per gram, 1.5
5.7	"			5018	0.0000
5.84	"			5017	
4.76	"			5018	
5.76	"			5019	

—E. X. W. L. BELAND, INSPECTOR.

4.92 Pepper tissues, maize and wheat starch. 5712 Adulterated.

6.36 Pepper tissues only. 5713 Adulterated.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer	Furnisher.	
DISTRICT OF QUEBEC								
1912								
Sept. 6	Ground B. Pepper	37474	G. Gingas, 268 1/2 lb Rue du Roi, Quebec.	18	Unknown	W. Brunet et Cie		
" 7	"	37475	Cantin & Frere, 1/4 271 Rue St Joseph, Que.	20	"	Langlois & Paradi-		
" 10	"	37476	C. S. Rivier, 3/4 50 Rue de la Couronne, Quebec.	18	"	Turcot & Frere.		
" 11	"	37477	Myrand & Pou- 1/4 liot, 70 Rue de la Couronne, Quebec.	18	"	Unknown		
" 12	"	37478	Arthur Drolet, 1/4 714 Rue St Valier, Queb'e	21	Herron & Le- blanc.	Mfrs.		
" 13	"	37479	Arthur Rinfred, 3/4 414 Rue St Joseph, Que.	18	Unknown	Unknown		
" 16	"	37480	Harold & Bed- 3/4 ard, 728 Rue St. Valier, Quebec.	20	Lemesarier and Son.	Whitead & Tur- ner.		
" 17	"	37481	V. Lacasse & 3/4 Cie, 7 Rue St. Clair, Quebec.	27	J. Lemesarie & Son.	" "		
" 17	"	37482	J. E. Paquet, 8 3/4 Rue Suther- land, Quebec.	18	Unknown	Unknown		
" 17	"	37483	J. Rochette, 7 3/4 Rue Deligny, Quebec.	24	J. Lemesarier & Son.	J. B. Renaud.		
" 18	"	37484	J. S. Gauvin, 29 3/4 Cote St. Ge- nieve, Quebec.	20	Unknown	Gagnon & Ga- rent.		
" 18	"	37485	Alfred Boily, 38 3/4 Cote St. Ge- nieve, Quebec.	18				
" 18	"	37486	M. Boyce & Son, 3/4 921 Cote St. Genieve, Que.	18	Herron & Le- blanc.	Mfrs.		
" 18	"	37487	J. A. Tramblay, 2/4 139 Rue Riche- lieu, Quebec.	27	Herron and Le- blanc.	J. B. Renaud.		
" 19	"	37488	George Trotter, 1/4 180 1/2 Rue St. Oliver, Quebec	30	Mercadys & Son	Unknown		
" 19	"	37489	Emile Brous- 1/4 seau, 17 Rue Sutherland, Quebec.	23	Unknown			
" 19	"	37490	R. Cantin, 326 1/4 Rue St. Oliver Quebec.	18	Canadian Spice Mills.	Mfrs.		
" 19	"	37491	Jos. Poitau, 27 3/4 Rue Suther- land Quebec.	18	Unknown	Langlois & Para- dis.		

SESSIONAL PAPER No. 14

GROUND BLACK PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopic Examination.	No. of Sample	Grade	Opinion of the Chief Analyst.
<i>Combined.</i>				
11.85	Pepper tissues and maize starch.	37473	A	
6.62	" " " "	37475	"	
6.54	Pepper tissues only	37476	"	
4.90	Pepper tissues and foreign stone cells in excess.	37477	Foreign	Adulterated
5.74	Pepper tissues and maize starch.	37478	"	
14.04	" " " "	[37479	"	
6.70	Pepper tissues only	37480	"	
5.40	" " " "	37481	"	
7.52	" " " "	37482	"	
5.16	Pepper tissues with a trace of maize starch	37483	"	
10.83	Pepper tissues, foreign tissues, starch and dirt.	37484	Adulterated	
9.62	Foreign tissues and maize starch, etc.	37485	"	
5.68	Pepper tissues, wheat and maize starch	37486	"	
4.46	Pepper tissues only	37487	"	
6.16	" " " "	37488	"	
6.22	Pepper tissues, wheat and maize starch.	37489	Adulterated	
4.92	Pepper tissues only	37490	"	
5.00	" " " "	37491	"	

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

DISTRICT OF ST. HYACINTHE—

1912								
Sept. 16	Ground B. Pepper	1433	J.B.A. Beauchemin, St. G. de Grantham.	1 lb.	24		L. Chaput fils & Cie., Montreal	
" 16	"	1434	O. Parenteau, St. Pie de Guire.	$\frac{3}{4}$ "	15			
" 17	"	1435	Cartier & Cie., Abenakis Springs.	$\frac{3}{4}$ "	17		Hudon, Hebert & Cie., Montreal.	
" 17	"	1436	L. Parenteau, Yamaska Est.	$\frac{3}{4}$ "	15	Unknown	Unknown	
" 19	"	1437	H. Marchessault & fils, St. Ours	$\frac{3}{4}$ "	18		Laporte, Martin Montreal.	
" 20	"	1438	Mde. J. Beauregard, St. Aime	$\frac{3}{4}$ "	15	S. H. Ewing & Sons, Montreal.		
" 20	"	1439	P. P. Lanoie, St. Aime.	$\frac{3}{4}$ "	20		L. Chaput fils & Cie., Montreal	
" 24	"	1440	A. E. D'Artois & fils, Farnham.	$\frac{3}{4}$ "	15		J. E. Labelle & Cie., Montreal	
" 24	"	1441	A. Belle, St. Jean.	$\frac{3}{4}$ "	15	Unknown	Unknown	
" 25	"	1442	Best Bros., Bedford.	$\frac{3}{4}$ "	27	S. M. Ewing & Sons, Montreal.		
" 26	"	1443	W. A. O'Dell, Stanbridge Est.	$\frac{3}{4}$ "	19	Unknown	Unknown	
" 26	"	1444	Copsey & Buchus, Frelsburg.	$\frac{3}{4}$ "	19	White Swan S. & Co., Toronto		
" 26	"	1445	Buzzle Bros., Cowasville.	$\frac{3}{4}$ "	23	Pure Gold Mfg. Co., Toronto.		
" 27	"	1446	O. L. Bibeau, Philipsburg.	$\frac{3}{4}$ "	18		Hudon, Hebert et Cie., Montreal.	
Oct. 1	"	1447	W. B. Murray, Sherbrooke Est.	$\frac{3}{4}$ "	20	Pure Gold Mfg. Co., Toronto.		
" 3	"	1448	G. Rolland, jr., Magog.	$\frac{3}{4}$ "	23		Laporte, Martin, Montreal.	
" 8	"	1449	J. A. Fontaine, Valcourt Ely.	$\frac{3}{4}$ "	15		L. Chaput fils & Cie., Montreal	Sold as Compound.
" 8	"	1450	J. H. Lussier, Racine Ely.	$\frac{3}{4}$ "	19	Unknown	S. H. Ewing & Sons, Montreal	
" 14	"	1451	Adolph Gladue, St. Hyacinthe.	$\frac{3}{4}$ "	15		E. Lafrance, St. Hyacinthe.	
" 14	"	1452	J. Bonneau, St. Hyacinthe.	$\frac{3}{4}$ "	21		E. Lafrance, St. Hyacinthe.	

DISTRICT OF MONTREAL—

Sept. 10	Ground B. Pepper.	50981	McLaul Bros., Lachute, P.Q.	$\frac{1}{4}$ lb.	15	Pure Gold Co., Ltd.		
" 10	"	50982	A. Lavigne, Lachute, P.Q.	$\frac{3}{4}$ "	13		L. Chaput fils & Co., Ltd., Montreal.	

SESSIONAL PAPER No. 14

GROUND BLACK PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
J. C. ROULEAU, INSPECTOR.			
p. c.			
5.84	Pepper tissues only.	1433	Genuine.
5.50	Pepper tissues and maize starch.	1434	Adulterated.
6.08	" " "	1435	"
6.46	" " "	1436	"
5.80	Pepper tissues only.	1437	Genuine.
7.44	Pepper tissues and foreign stone cells in excess.	1438	Adulterated.
5.70	Pepper tissues only.	1439	Genuine.
6.88	" "	1440	"
3.14	Pepper tissues, foreign stone cells with a little wheat starch.	1441	Adulterated.
10.44	Pepper tissues, foreign stone cells and wheat starch.	1442	"
6.42	Pepper tissues only.	1443	Genuine.
4.02	" "	1444	"
4.98	" "	1445	"
6.16	Pepper tissues and maize starch.	1446	Adulterated.
5.80	Pepper tissues only.	1447	Genuine.
5.28	" "	1448	"
6.36	Pepper tissues, foreign tissues and foreign stone cells in excess.	1449	Compound.
8.36	Pepper tissues and foreign stone cells in excess.	1450	Adulterated.
14.68	Pepper tissues, wheat starch and dirt.	1451	"
16.68	Pepper tissues, wheat and maize starch and dirt.	1452	"

J. J. COSTIGAN, INSPECTOR.

4.82	Pepper tissues only.	50981	Genuine.
5.20	" "	50982	"

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

DISTRICT OF MONTREAL

1912.								
Oct.	1	Ground B. Pepper	50983 A. W. Hugman Ltd., 28 St. Paul st., Montreal.	1 lb	18	Vendor.		
"	1	"	50984 A. Kouri, 31 Bonsecours st. Montreal.	1	15			
"	3	"	50985 J. E. Groulx 1051 Lahrier ave. W. Outremont E.	1	30	S. H. Ewing & Son.		
"	3	"	50986 Limoges et Freres, 2,000 Hutchison st., Outremont E.	1	20			
"	3	"	50987 A. Gadbois, Hutchison and Viateur sts., Outremont E.	1	30	J. V. Boudrias, Montreal.		
"	3	"	50988 The Park Provision Co., 209 St. Viateur st. Montreal.	1	30	S. H. Ewing & Sons.		
"	3	"	50989 E. Pelland, 180 Fairmont ave. W., Montreal.	1	30			
"	4	"	50990 Frank D. Hall, St. Agathe des Monts.	$\frac{3}{4}$	28			
"	4	"	50991 G. Coté, St. Agathe des Monts.	$\frac{3}{4}$	30		L. Chaput fils & Cie., Ltd.	
"	7	"	50992 James Graham, 4451 St. Cath. st. Westmount	$\frac{3}{4}$	30			
"	7	"	50993 Thos. L. Muir, 4500 St. Cath. st. Westmount	$\frac{3}{4}$	30			
"	8	"	50994 R. Bernard, 91 Lagauchitiere st. E. Montreal.	$\frac{3}{4}$	30	J. V. Boudrias, Ltd., Montreal.		
"	8	"	50995 S. Cohen, 90 Dorchester st. E. Montreal.	$\frac{3}{4}$	25			
"	8	"	50996 S. Dionne, 140 Dorchester st. Montreal.	$\frac{3}{4}$	30			
"	10	"	50997 Dechesnes & Picard, Joliette, P.Q.	$\frac{3}{4}$	15			"Imperial" brand
"	10	"	50998 E. Dufour, Joliette, P. Q.	$\frac{3}{4}$	15			
"	10	"	50999 J. A. Malo, Joliette, P.Q.	$\frac{3}{4}$	15			
"	11	"	51000 Jos. Bonenfont, 428 Church av. Verdun.	$\frac{3}{4}$	27			

SESSIONAL PAPER No. 14
GROUND BLACK PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
<i>—Concluded.</i>			
p. c.			
5-66	Pepper tissues only	50983	Genuine.
2-54	Pepper tissues and wheat starch.	50984	Adulterated.
4-60	Pepper tissues,	50985	Genuine.
6-20	Pepper tissues and maize starch	50986	Adulterated.
5-84	Pepper tissues only	50987	Genuine.
4-64	" "	50988	"
3-42	" "	50989	"
8-14	Pepper tissues and maize starch.	50990	Adulterated.
6-02	Pepper tissues only	50991	Genuine.
4-00	" "	50992	"
7-40	Pepper tissues; wheat starch with a little maize starch.	50993	Adulterated.
5-58	Pepper tissues only	50994	Genuine.
18-20	Pepper tissues and dirt	50995	Adulterated.
5-60	Pepper tissues only	50996	Genuine.
5-58	" "	50997	"
7-46	Pepper tissues and maize starch.	50998	Adulterated.
14-30	Pepper tissues, maize starch and dirt.	50999	"
5-54	Pepper tissues, foreign tissues and maize starch.	51000	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cosr.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF OTTAWA—								
1912.								
Aug. 30	Ground B. Pepper	50232	Cameron & Downing, Vankleek Hill	$\frac{3}{4}$ lb.	19		Ground for and furnished by Matthewson's Sons, Herron LeBlanc Ltd., Grinders.	
Sept. 4	"	50233	S. Berger, 510 Bank St., Ottawa.	$\frac{3}{4}$ "	30	Unknown.	H. N. Bate & Sons, Ottawa.	
" 4	"	50234	Geo. Agar, Ottawa.	$\frac{3}{4}$ "	30	"	H. N. Bate & Sons, Ottawa.	
" 4	"	50235	M. A. McCagg, Ottawa, Ont.	$\frac{3}{4}$ "	30	"	F. J. Castle Co., Ottawa.	
" 4	"	50236	Alex. Phillips, Ottawa, Ont.	$\frac{3}{4}$ "	30	"	H. N. Bate & Sons, Ottawa.	
" 5	"	50237	J. B. Bedard, Hull, P.Q.	$\frac{3}{4}$ "	30	"	F. J. Castle Co., Ottawa.	
" 5	"	50238	J. E. Ryan & Co., Hull, P.Q.	$\frac{3}{4}$ "	30	"	Unknown.	
" 5	"	50239	Jules Grattan, Hull, P.Q.	$\frac{3}{4}$ "	30			
" 6	"	50240	Jas. McDougall, Brockville.	$\frac{3}{4}$ "	30	J. M. Lowes, Ltd., Toronto.	Mfrs.	
" 6	"	50241	F. H. Clifford, Brockville.	$\frac{3}{4}$ "	30	Lister Pure Food Co., Toronto.	"	
" 6	"	50242	J. Culbert, Brockville.	$\frac{3}{4}$ "	30	Unknown.	Unknown.	
" 6	"	50243	A. E. Shaver, Brockville.	$\frac{3}{4}$ "	30	Pure Gold Mfg. Co., Toronto.	Mfrs.	
" 7	"	50244	John Hughes, Prescott.	$\frac{3}{4}$ "	30	J. M. Lowes Co., Toronto.	"	
" 7	"	50245	R. A. Scott & Co., Prescott.	$\frac{3}{4}$ "	30	C. H. Cochrane & Co., Ottawa	"	
" 11	"	50246	William Miller, Ottawa.	$\frac{3}{4}$ "	30	Unknown.	Unknown.	
" 12	"	50247	Geo. H. Hall & Co., Ottawa.	$\frac{3}{4}$ "	30	C. H. Cochrane & Co., Ottawa	Mfrs.	
" 16	"	50248	Thos. R. Davies, Ottawa.	$\frac{3}{4}$ "	30	Unknown.	H. N. Bate & Sons, Ottawa.	
" 18	"	50249	W. Miskelly, Merrickville.	$\frac{3}{4}$ "	20	Gorman Eckert, Montreal.	Mfrs.	
" 18	"	50250	Wm. Cnsick, Merrickville.	$\frac{3}{4}$ "	30	Unknown.	Unknown.	
" 18	"	50251	John Kerr, Merrickville.	$\frac{3}{4}$ "	20	"	Gilmour & Co., Brockville.	
DISTRICT OF KINGSTON—								
Sept. 3	Ground B. Pepper.	50711	J. Gilbert, Kingston.	$\frac{3}{4}$ lb.	19		J. M. Lowes, Toronto.	
" 3	"	50712	J. E. Purdy, Kingston.	$\frac{1}{4}$ "	19		Hamilton Spice & Coffee Co., Hamilton.	
" 3	"	50713	H. T. Frcce, Kingston.	$\frac{1}{4}$ "	13		J. M. Lowes, Toronto.	

SESSIONAL PAPER No. 14
GROUND BLACK PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
J. A. RICKEY, INSPECTOR.			
			P. C.
1 42	Pepper tissues and maize starch. White pepper.	50232	Adulterated.
8 86	Pepper tissues and foreign stone cells in excess.	50233	"
6 04	Pepper tissues only.	50234	Genuine.
10 82	Pepper tissues and maize starch.	50235	Adulterated.
9 52	" " "	50236	"
10 00	Pepper tissues and foreign stone cells in excess.	50237	"
4 36	Pepper tissues only.	50238	Genuine.
3 52	Pepper tissues and maize starch.	50239	Adulterated.
5 62	Pepper tissues only.	50240	Genuine.
4 94	" "	50241	"
1 40	" "	50242	"
1 10	" " white pepper.	50243	"
1 60	" "	50244	"
5 64	" "	50245	"
4 80	" "	50246	"
4 74	" "	50247	"
4 24	Pepper tissues and foreign stone cells in excess.	50248	Adulterated.
5 00	Pepper tissues only.	50249	Genuine.
5 64	" "	50250	"
6 14	" "	50251	"

JAS. HOGAN, INSPECTOR.

5 50	Pepper tissues only.	50711	Genuine.
5 61	" "	50712	"
4 68	" "	50713	"

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

DISTRICT OF KINGSTON

1912.								
Sept.	3	Ground B Pepper.	50714 J. A. Percy, Kingston.	$\frac{3}{4}$ lb	20	.....	Geo. Robertson & Son, Kingston.	.....
"	3	"	50715 W. J. Arnill, Kingston.	$\frac{3}{4}$ "	19	.....	Robertson Nicol Co., Kingston.	.....
"	4	"	50716 H. A. Stover, Kingston.	$\frac{3}{4}$ "	23	.....	A. Maclean, Kingston.	.....
"	4	"	50717 W. J. Lee, Kingston.	$\frac{3}{4}$ "	23	.....	W. G. Craig Co. Kingston.	.....
"	4	"	50718 P. A. Happner, Kingston.	$\frac{3}{4}$ "	23	.....	J. M. Lowes, Toronto.	.....
"	4	"	50719 J. Cullen, Kingston.	$\frac{3}{4}$ "	23	.....	A. Maclean, Kingston.	.....
"	9	"	50720 R. Elvins, Belleville.	$\frac{3}{4}$ "	18	.....	Dalton Bros. Toronto.	.....
"	9	"	50721 J. B. Harker, Belleville.	$\frac{3}{4}$ "	22	.....	.....	.....
"	9	"	50722 J. Panter & Son, Belleville.	$\frac{3}{4}$ "	22	.....	White Swan Co., Toronto.	.....
"	9	"	50723 George Boyle, Belleville.	$\frac{3}{4}$ "	18	.....	F. F. Dalley, Co., Hamilton	.....
"	9	"	50724 J. H. P. Young, Belleville.	$\frac{3}{4}$ "	22	.....	Pure Gold Co., Toronto.	.....
"	10	"	50725 T. McIntosh, Cobourg.	$\frac{3}{4}$ "	18	.....	Todhunter & Mitchell, Toronto.	.....
"	10	"	50726 W. P. Platt, Cobourg.	$\frac{3}{4}$ "	23	.....	Todhunter & Mitchell, Toronto.	.....
"	10	"	50727 E. Guillet, Cobourg.	$\frac{3}{4}$ "	23	.....	W. H. Ewing Co., Montreal.	.....
"	10	"	50728 F. Rosevear, Port Hope.	$\frac{3}{4}$ "	19	.....	F. F. Dalley Co. Hamilton.	.....
"	10	"	50729 F. H. Brown, Port Hope.	$\frac{3}{4}$ "	23	Unknown.....	Unknown.	.....
"	11	"	50730 W. J. Roulty, Peterboro.	$\frac{3}{4}$ "	30	.....	White Swan Co., Toronto.	.....

DISTRICT OF TORONTO—

Sept.	13	Ground B. Pepper.	51421 J. C. Williams, 744 Gerrard St. East, Toronto.	$\frac{3}{4}$ lb.	30	.....	Unknown.	.....
"	13	"	51422 F. Colello, 1062 Gerrard st. East, Toronto	$\frac{3}{4}$ "	25	.....	"	.....
"	13	"	51423 Prowse's Cash Grocery, 61 Bellevue Ave., Toronto.	$\frac{3}{4}$ "	30	.....	Dalton Bros. Toronto.	.....
"	31	"	51424 Jas. Faragher, Dennison & Carr sts., Toronto.	$\frac{3}{4}$ "	20	.....	Todhunter, Mitchell & Co., Toronto.	.....

SESSIONAL PAPER No. 14

GROUND BLACK PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
<i>— Concluded.</i>			
p. c.			
5.62	Pepper tissues only	50714	Genuine.
4.68	" "	50715	"
5.96	" "	50716	"
6.86	" "	50717	"
5.54	" "	50718	"
5.28	" "	50719	"
8.72	" "	50720	Excess mineral matter. Doubtful.
9.14	Pepper tissues and dirt	50721	Adulterated.
7.96	Pepper tissues only	50722	Excess mineral matter. Doubtful.
4.66	" "	50723	Genuine.
4.32	" "	50724	"
5.02	" "	50725	"
4.84	" "	50726	"
3.70	" "	50727	"
5.42	" "	50728	"
4.82	" "	50729	"
4.86	" "	507.0	"

H. J. DAGER, INSPECTOR.

5.50	Pepper tissues only . .	51421	Genuine.
5.74	" "	51422	"
4.34	Pepper tissues and foreign stone cells in excess.	51423	Adulterated.
5.56	Pepper tissues only . .	51424	Genuine.

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

DISTRICT OF TORONTO

1912.								
Sept.	16	Ground B. Pepper.	51425 W. J. Fletcher, 74 Bathurst st Toronto.	$\frac{3}{4}$ lb	20	.....	Unknown.....	.....
"	16	"	51426 W. Bottomley, 834 King st. West, Toronto	$\frac{3}{4}$ "	23	.....	R. B. Hayhoe & Co., Toron- to.	.....
"	16	"	51427 R. Hawkhis- stone, 858 Dovercourt Road, Tor- onto.	$\frac{3}{4}$ "	19	.....	Todhunter, Mitchell & & Co., To- onto.	.....
"	17	"	51428 H. F. Hall, 48 Geary Ave., Toronto.	$\frac{3}{4}$ "	23	.....	Unknown.....	.....
"	17	"	51429 J. D. Tripp, 1504 Queen St. West, Toronto	$\frac{3}{4}$ "	30	.....	Todhunter, Mitchell & Co., Toronto.	.....
"	17	"	51430 J. D. Ward, 1284 Queen St. West Toronto.	$\frac{3}{4}$ "	30	.....	Pure Gold Mfg. Co., Ltd., Toronto.	.....
"	20	"	51431 W. A. M. Cody, Newmarket.	$\frac{3}{4}$ "	23	.....	Unknown.....	.....
"	23	"	51432 McDonald Bros. 1064 Yonge St. Toronto.	$\frac{3}{4}$ "	30	.....	Pure Gold Mfg. Co., Ltd., Toronto.	.....
Oct.	1	"	51433 Smithson & Craven, Bur- lington.	$\frac{3}{4}$ "	25	.....	Unknown.....	.....
"	1	"	51434 A. Broad, Dun- das.	$\frac{3}{4}$ "	22	.....	"	.....
"	2	"	51435 A. E. Virtue, 33 East Ave., North Hamil- ton.	$\frac{3}{4}$ "	30	.....	"	.....
"	2	"	51436 J. L. Benson, King William St., Hamilton	$\frac{3}{4}$ "	23	.....	Imperial Cocoa & Spice Co., Ltd., Hamil- ton, Ont.	.....
"	2	"	51437 Jacob Vanstor, 797 Barton St. East, Hamil- ton.	$\frac{3}{4}$ "	30	.....	Unknown.....	.....
"	2	"	51438 H. J. Vaughen, King & Lockie Sts., Hamil- ton.	$\frac{3}{4}$ "	25	.....	F. F. Dalley & Co., Ltd., Hamilton.	.....
"	3	"	51439 C. Oliver, 61 York St., Hamilton.	$\frac{3}{4}$ "	27	.....	Young & Wind- field, Hamil- ton.	.....
"	3	"	51440 M. Van Every, Bay and Can- non Sts., Ham- ilton.	$\frac{3}{4}$ "	23	.....	Young & Wind- field, Hamil- ton.	.....

SESSIONAL PAPER No. 14

GROUND BLACK PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
<i>Concluded.</i>			
p. c.			
4.80	Pepper tissues only	51425	Genuine.
5.30	" "	51426	"
5.00	" "	51427	"
5.00	" "	51428	"
4.90	" "	51429	"
4.96	" "	51430	"
4.48	Pepper tissues and foreign stone cells in excess.	51431	Adulterated.
5.08	Pepper tissues only...	51432	Genuine.
6.10	" "	51433	"
5.94	" "	51434	"
5.00	" "	51435	"
6.28	Pepper tissues and foreign stone cells in excess.	51436	Adulterated.
4.56	Pepper tissues only...	51437	Genuine.
5.70	" "	51438	"
5.70	" "	51439	"
5.80	" "	51440	"

4 GEORGE V., A. 1914

BULLETIN No. 248—

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

DISTRICT OF WINDSOR—

1912.								
Sept. 19	Ground B. Pepper.	48101	R. Baker, London East	$\frac{3}{4}$	lb.	30	I. X. L. Spice & Coffee Co., London.	'Sweetheart' Brand.
" 19	"	48103	G. H. Mennill, London, E.	$\frac{3}{4}$	"	23	"	"
" 19	"	48105	Chas. Depper, London E.	$\frac{3}{4}$	"	17	Gorman Eckert Co., London.	'Tellicherry' Brand.
" 20	"	48107	S. M. Fleet, Ingersoll.	$\frac{3}{4}$	"	30	F. F. Dalley, Hamilton.	Labelled Pure Sing. Black Pepper.
" 20	"	48109	P. J. Sherry, Ingersoll.	$\frac{3}{4}$	"	23	E. Adams & Co. London.	Labelled Pure Black Pepper.
" 20	"	48111	M. W. Healey, Ingersoll.	$\frac{3}{4}$	"	23	I. W. L. Spice & Coffee Co., London.	'Sweetheart' Brand.
" 20	"	48114	Chas. M. Crawford, Ingersoll.	$\frac{3}{4}$	"	23	Imperial Cocoa & Spice Co., Ltd., Hamilton, Ont.	'Red Feather' Brand.
" 20	"	48115	Buchanan Bros., Ingersoll.	$\frac{3}{4}$	"	19	"	"
" 20	"	48118	Robt. Stewart, Ingersoll.	$\frac{3}{4}$	"	23	Gorman Eckert Co., London.	'Forest City' Pure Spices.
" 20	"	48120	McLeod & McBain, Ingersoll.	$\frac{3}{4}$	"	30	F. F. Dalley Co. Hamilton.	Labelled Dalley's Pure Tellicherry Pepper.
" 20	"	48121	W. I. Hogarth, Ingersoll.	$\frac{3}{4}$	"	23	Gorman Eckert, London, Ont.	"
" 20	"	48121	W. I. Hogarth, Ingersoll.	$\frac{3}{4}$	"	20	White Swan S. & C. Co., Toronto.	'White Swan' Brand, Pure Ground Black Pepper.
" 21	"	48123	C. W. Reynolds, Pottersburg.	$\frac{3}{4}$	"	30	Gorman Eckert, & Co., London.	"
" 5	"	48277	E. R. Newmans London.	$\frac{3}{4}$	"	30	E. Adams & Co. London.	"
" 5	"	48279	Thos. Shaw, London.	$\frac{3}{4}$	"	30	I. X. L. Spice & Coffee Co., London.	Pure Select Black Pepper.
" 12	"	48289	White & Co., Woodstock, Ont.	$\frac{3}{4}$	"	30	Gorman Eckert, & Co. London.	'Forest City' Pure Spices.
" 12	"	48291	Wm. Pullen, Woodstock, Ont.	$\frac{3}{4}$	"	30	Unknown.	"
" 12	"	48292	Lewis & Son, Woodstock, Ont.	$\frac{3}{4}$	"	23	Gorman Eckert, Co., London.	'Crest' Brand.
" 19	"	48294	W. A. Munn, St. Thomas.	$\frac{3}{4}$	"	22	"	"
" 19	"	48297	Ideal Co.-op. Association, St. Thomas.	$\frac{3}{4}$	"	23	I. X. L. Spice & Coffee Co., London.	'Sweetheart' Brand, Pure Select Spices.
" 19	"	48300	Moylan & Moylan, St. Thomas.	$\frac{3}{4}$	"	"	"	'Sweetheart' Brand.

SESSIONAL PAPER No. 14

GROUND BLACK PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
5-22	Pepper tissues only.	48101	Genuine.
5-22	" "	48103	"
4-10	" "	48105	"
5-68	" "	48107	"
8-64	" "	48109	Mineral matter in excess. Doubtful.
6-18	" "	48111	Genuine.
5-96	Pepper tissues and foreign stone cells in excess.	48114	Adulterated.
8-20	Pepper tissues and dirt.	48117	Excess mineral matter. Doubtful.
5-02	Pepper tissues only.	48118	Genuine.
5-00	" "	48120	"
7-64	" "	48121	"
7-56	" "	48123	"
6-04	" "	48277	"
4-32	" "	48279	"
4-92	" "	48289	"
11-82	Pepper tissues, foreign tissues and dirt	48291	Adulterated.
4-96	Pepper tissues only.	48292	Genuine.
5-44	" "	48294	"
5-54	" "	48297	"
6-64	" "	48300	"

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

DISTRICT OF MANITOBA—

1912.									
Sept. 19	Ground B. Pepper.	48656	M. Shiner, Emerson.	$\frac{3}{4}$ lb.	30				
" 19	"	48657	C. A. Whitman, Emerson.	$\frac{3}{4}$ "	20	Unknown	Unknown		
" 20	"	48658	Campbell Bros., Wilson, Winnipeg.	$\frac{3}{4}$ "		Vendors			
" 20	"	48659	The Dyson Co., Winnipeg.	$\frac{3}{4}$ "		"			
" 20	"	48660	The White Star Mfg. Co., Winnipeg.	$\frac{3}{4}$ "		"			
" 20	"	48661	The Gold Standard Mfg. Co., Winnipeg.	$\frac{3}{4}$ "		"			
" 23	"	48662	P. Nelson, Winnipeg.	$\frac{3}{4}$ "	30				
" 23	"	48663	W. H. Morgan, Winnipeg	$\frac{3}{4}$ "	30		The Codville Co Winnipeg.		
" 23	"	48664	Western Mercantile Co., Winnipeg.	$\frac{3}{4}$ "	30				
" 24	"	48665	P.J.Foley & Co., Stonewall.	$\frac{3}{4}$ "	30		The Jobin Mar- rin Co., Ltd., Winnipeg.		
" 24	"	48666	G. Montgomery & Co., Stone- wall.	$\frac{3}{4}$ "	30				
" 24	"	48667	I. Genser, Stone- wall.	$\frac{3}{4}$ "	30		Mason & Hickey Winnipeg.		
" 25	"	48668	C. Finkleman, Selkirk.	$\frac{3}{4}$ "	25				
" 25	"	48669	W. Robinson & Co., Selkirk.	$\frac{3}{4}$ "	30				
" 25	"	48670	Shopard Peers Co., Selkirk.	$\frac{3}{4}$ "	30				
" 26	"	48671	L. Turkletop, Beausejours, Man.	$\frac{3}{4}$ "	20				
Oct. 1	"	48672	D. G. Macdon- ald, Portage la Prairie.	$\frac{3}{4}$ "	30		Jobin Marrin Co Winnipeg.		
" 1	"	48673	O'Rielly & Co., Portage la Prairie.	$\frac{3}{4}$ "	30				
" 2	"	48674	Smith & Burton Brandon.	$\frac{3}{4}$ "	35				
" 3	"	48675	Brebber & Til- lup, Oak Lake	$\frac{3}{4}$ "	30		Campbell Bros. & Wilson, Win- nipeg.		

SESSIONAL PAPER No. 14
GROUND BLACK PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
4-12	Pepper tissues and foreign stone cells in excess.	48656	Adulterated.
5-36	Pepper tissues only	48657	Genuine.
6-00	" "	48658	"
5-38	" "	48659	"
5-21	" "	48660	"
6-84	" "	48661	"
4-84	" "	48662	"
5-26	" "	48663	"
4-66	" "	48664	"
4-12	" "	48665	"
4-38	" "	48666	"
5-14	" "	48667	"
4-76	" "	48668	"
4-82	" "	48669	"
5-94	" "	48670	"
18-46	Pepper tissues, dirt and foreign stone cells in excess.	48671	Adulterated.
4-62	Pepper tissues only	48672	Genuine.
5-30	" "	48673	"
4-62	" "	48674	"
5-56	" "	48675	"

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

DISTRICT OF NELSON—

1912								
Sept.	3	Ground B. Pepper	49687	Union Cash Grocery, Nelson, B.C.	$\frac{3}{4}$ lb.	30	Empress Mfg. Co., Vancouver.	
"	3	"	49689	Bell Trading Co., Nelson, B.C.	$\frac{3}{4}$ "	30	Wm. Braid & Co., Vancouver.	
"	6	"	49701	G.B. Armstrong Merritt, B.C.	$\frac{3}{4}$ "	30	Kelly, Douglas Co., Vancouver.	
"	9	"	49719	L. C. Masson, Revelstoke.	$\frac{3}{4}$ "	30	Oriental Mills, Vancouver.	
"	9	"	49724	Bourne Bros., Revelstoke.	$\frac{3}{4}$ "	30	W. H. Malkin & Co., Vancouver.	
"	9	"	49731	B. B. Camozzi, Revelstoke.	$\frac{3}{4}$ "	30	W. H. Malkin & Co., Vancouver.	
"	9	"	49733	D. Gallicano, Revelstoke.	$\frac{3}{4}$ "	30	Kelly Douglas Co., Vancouver.	
"	10	"	49736	C. B. Hume & Co., Revelstoke.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancouver.	
"	10	"	49741	J. Guilletto, Revelstoke.	$\frac{3}{4}$ "	30	Kelly Douglas Co., Vancouver.	
"	23	"	49745	C. A. Warren, Golden, B.C.	$\frac{3}{4}$ "	30	W. H. Malkin & Co., Vancouver.	
"	23	"	49752	H. G. Parson Ltd Golden, B.C.	$\frac{3}{4}$ "	25	Kelly Douglas Co., Vancouver.	
"	23	"	49759	C. R. Lumber Co., Golden, B.C.	$\frac{3}{4}$ "	30	W. Braid & Co., Vancouver.	
"	23	"	49765	Rolston & Mitchell, Golden, B.C.	3 tins.	30	Campbell Bros. Wilson, Winnipeg.	
"	24	"	49768	Field Trading Co., Field, B.C.	$\frac{3}{4}$ lb.	30		Campbell, Wilson & Horne, Calgary.
"	25	"	49771	C. B. Hume & Co., Arrowhead, B.C.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancouver.	
"	25	"	49776	Reid & Young, Arrowhead, B.C.	$\frac{3}{4}$ "	30	Kelly Douglas Co., Vancouver.	
Oct.	1	"	49785	Citizens Co-op. Association, Nelson, B.C.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancouver.	
"	1	"	49788	I. A. Irving, Nelson, B.C.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancouver.	
"	1	"	49789	Hudsons Bay Co., Nelson, B.C.	$\frac{3}{4}$ "	30	Vendors.....	
"	1	"	49792	Christie & Benson, Nelson, B.C.	3 tins.	40	Empress Mfg. Co., Vancouver.	

SESSIONAL PAPER No. 14

GROUND BLACK PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
THOS. PARKER, INSPECTOR.			
p. c.			
3.64	Pepper tissues only.....	49687	Genuine.
5.18	" "	49689	"
4.90	" "	49701	"
8.02	" "	49719	Excess mineral matter, Doubtful.
4.00	" "	49724	Genuine.
4.08	" "	49731	"
4.90	" "	49733	"
6.00	" "	49736	"
7.28	Pepper tissues and foreign stone cells in excess.	49741	Adulterated.
4.32	Pepper tissues only.....	49745	Genuine.
5.40	" "	49752	"
5.42	" "	49759	"
5.60	" "	49765	"
7.70	" "	49768	"
5.86	" "	49771	"
4.78	" "	49776	"
3.16	" "	49785	"
4.58	" "	49788	"
6.40	" "	49789	"
5.28	" "	49792	"

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

DISTRICT OF VANCOUVER—

1912.								
Sept. 16	Ground B. Pepper	38379	Pioneer Grocery Smythe & Richards Sts., Vancouver, B.C.	$\frac{3}{4}$ lb...	30	Wm. Braid & Co., Vancouver.		
" 16	"	38380	Walford & Roney, Granville St., Vancouver, B.C.	$\frac{3}{4}$ "	30	Wm. Braid & Co., Vancouver.		
" 16	"	38381	R. Shilling, Seymour & Helmen Sts., Vancouver, B.C.	$\frac{3}{4}$ "	25	Empress Mfg. Co., Vancouver.		
" 16	"	38382	W. H. Walsh Co. Ltd., Seymour & Davie Sts., Vancouver, B.C.	$\frac{3}{4}$ "	30	Wm. Braid & Co., Vancouver.		
" 16	"	38383	Halpins Grocery 1169 Granville St., Vancouver, B.C.	3 tins.	30	Empress Mfg. Co., Vancouver.		
" 16	"	38384	Vancouver Grocery, Nelson & Granville Sts., Vancouver, B.C.	$\frac{3}{4}$ lb...	30	Empress Mfg. Co., Vancouver.		
" 17	"	38385	A. C. Bartig, 8th Ave., & Granville St., Vancouver, B.C.	$\frac{3}{4}$ "	30	Kelly Douglas, Vancouver.		
" 17	"	38386	A. MacFarlane, 1469 Broadway W., Vancouver, B.C.	$\frac{3}{4}$ "	30	Kelly Douglas, Vancouver.		
" 17	"	38387	White Thompson Co., South Granville St., Vancouver, B.C.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancouver.		
" 17	"	38388	London Grocery Co., 6th Ave., & Granville St., Vancouver, B.C.	$\frac{3}{4}$ "	30	Kelly Douglas, & Co., Vancouver.		
" 17	"	38389	Grouchy & Carlaw, 5th Ave. & Granville St., Vancouver, B.C.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancouver.		
" 17	"	38390	Turners Grocery Pender & Horby Sts., Vancouver, B.C.	$\frac{3}{4}$ "	25	Kelly Douglas & Co., Vancouver.		
" 17	"	38391	A. & C. Grocery 909 Georgia St., Vancouver.	$\frac{3}{4}$ "	30	Kelly Douglas & Co., Vancouver.		

SESSIONAL PAPER No. 14

GROUND BLACK PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
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J. F. POWER, INSPECTOR.

p. c.

5.04	Pepper tissues only.....	38379	Genuine.
5.00	" "	38380	"
6.44	" "	38381	"
4.18	" "	38382	"
5.70	" "	38383	"
6.22	" "	38384	"
5.24	" "	38385	"
4.70	" "	38386	"
5.42	" "	38387	"
4.76	" "	38388	"
5.00	" "	38389	"
4.10	" "	38390	"
4.76	" "	38391	"

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

DISTRICT OF VANCOUVER

1912.								
Sept. 17	Ground B. Pepper	38392	McTaggart & Co., Robson & Granville Sts., Vancouver, B.C.	$\frac{3}{4}$ lb.	30	Kelly Douglas & Co., Vancouver.		
" 17	"	38393	Hudsons Bay Co., Vancouver, B.C.	$\frac{3}{4}$ "	30	Wm. Braid & Co., Vancouver.		
" 17	"	38394	Mills & McAdam, 2039 4th Ave. W., Vancouver, B.C.	$\frac{3}{4}$ "	30	Unknown.....	Hudsons Bay Co., Vancouver.	
" 17	"	38395	J. S. Hirst, 1944 Maple St., Vancouver.	3 tins.	30	W. H. Malkin & Co., Vancouver.		"VictoriaCross" Brand spices are absolutely pure.
" 17	"	38396	Cook Bros., 1619 4th Ave., W., Vancouver, B.C.	$\frac{3}{4}$ lb..	25	W. H. Malkin & Co., Vancouver.		
" 17	"	38397	David Spencer, Ltd., Vancouver.	$\frac{3}{4}$ "	30	Kelly Douglas & Co., Vancouver.		
" 17	"	38398	H. A. Edgett Co., Ltd., Vancouver, B.C.	$\frac{3}{4}$ "	30	Wm. Braid & Co., Vancouver.		

DISTRICT OF VICTORIA--

Oct. 17	Ground B. Pepper	49201	H. O. Kirkham, 714 Front St., Victoria, B.C.	$\frac{3}{4}$ lb.	30		Kelly Douglas & Co. Ltd., Vancouver B.C.	
" 17	"	49202	A. Hendry, 2001 Fernwood Rd. Victoria, B.C.	$\frac{3}{4}$ "	25		S. Leiser & Co., Victoria, B.C.	
" 17	"	49203	J. Renouf, Gladstone & Stanley Ave., Victoria, B.C.	$\frac{3}{4}$ "	25		Empress Mfg. Co., Vancouver, B.C.	
" 17	"	49204	E. B. Jones, 1800 Cook St., Victoria, B.C.	$\frac{3}{4}$ "	30		Kelly Douglas Co. Ltd., Vancouver, B.C.	
" 18	"	49205	Chas. Richards, Cook & Mears Sts., Victoria, B.C.	$\frac{3}{4}$ "	25		Pioneer Coffee & Spice Mills Victoria, B.C.	
" 18	"	49206	Linden Grocery Co., Linden Ave. & May St., Victoria, B.C.	$\frac{3}{4}$ "	30		Empress Mfg. Co., Vancouver, B.C.	

SESSIONAL PAPER No. 14

GROUND BLACK PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
<i>Concluded.</i>			
p. c.			
4.62	Pepper tissues only.	38392	Genuine.
4.22	" "	38393	"
6.62	" "	38394	"
4.54	" "	38395	"
5.08	" "	38396	"
4.40	" "	38397	"
3.68	" "	38398	"

D. O'SULLIVAN, INSPECTOR.

4.60	Pepper tissues only...	49201	Genuine.
6.08	" "	49202	"
3.92	" "	49203	"
4.48	" "	49204	"
5.00	" "	49205	"
5.00	" "	49206	"

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

DISTRICT OF VICTORIA

1912.								
Sept. 17	Ground B. Pepper.	49207	Pioneer Coffee & Spice Mills, 641 Pembroke St., Victoria, B.C.	$\frac{3}{4}$	lb	15	Vendors.....	
" 10	"	49208	Windsor Grocery Co., 1817 Government St., Victoria, B.C.	$\frac{3}{4}$	"	40	Pioneer Coffee & Spice Mills, Victoria, B.C.	
" 11	"	49209	The West End Grocery Co. Ltd., 1009 Gov't. St., Victoria, B.C.	$\frac{3}{4}$	"	30	Wm. Braid & Co., Vancouver, B.C.	
" 12	"	49210	Copas & Young, 631 Fort St., Victoria, B.C.	$\frac{3}{4}$	"	20	"	
" 16	"	49211	Acton Bros., 1317 Douglas St., Victoria, B.C.	$\frac{3}{4}$	"	30	Pioneer Coffee & Spice Mills, Victoria, B.C.	
" 16	"	49212	H. & K. Grocery, 1425 Douglas St., Victoria, B.C.	$\frac{3}{4}$	"	30	"	
" 18	"	49213	D. H. Ross & Co., 1317 Gov't. St., Victoria, B.C.	$\frac{3}{4}$	"	30	Wm. Braid & Co., Vancouver, B.C.	
" 19	"	49214	Harrison & McDonald, 1218 Douglas St., Victoria, B.C.	$\frac{3}{4}$	"	30	Empress Mfg. Co., Vancouver, B.C.	
" 20	"	49215	F. E. Plummer, 1118 Quadra St., Victoria B.C.	$\frac{3}{4}$	"	25	Pioneer Coffee & Spice Mills, Victoria, B.C.	
" 24	"	49216	E. G. Bailey, 758 Fort St., Victoria, B.C.	$\frac{3}{4}$	"	40	Empress Mfg. Co., Vancouver, B.C.	
" 25	"	49217	Erskine & Co., 861 Johnston St., Victoria, B.C.	$\frac{3}{4}$	"	30	R. P. Rithet & Co., Victoria, B.C.	
Oct. 15	"	49238	Henry W. Driver, 856 Yates St., Victoria, B.C.	$\frac{3}{4}$	"	25	W. A. Jameson Coffee Co., Victoria, B.C.	
" 15	"	49239	W. A. Jameson Coffee Co., 754 Broughton St., Victoria, B.C.	$\frac{3}{4}$	"	30	Dunn & Co., Hamilton, Ont.	
" 17	"	49240	H. Smith, View St., Victoria, B. C.	$\frac{3}{4}$	"	30	Pioneer Coffee & Spice Mills, Victoria, B.C.	

SESSIONAL PAPER No. 14

GROUND BLACK PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
<i>—Concluded.</i>			
p. c.			
5.12	Pepper tissues only	49207	Genuine.
5.10	" "	49208	"
5.26	" "	49209	"
5.04	" "	49210	"
5.34	" "	49211	"
5.36	" "	49212	"
4.70	" "	49213	"
8.22	" "	49214	Excess mineral matter. Doubtful.
3.16	" "	49215	Genuine.
5.66	" "	49216	"
2.52	" "	49217	"
4.72	" "	49238	"
5.40	" "	49239	"
5.74	" "	49240	"



APPENDIX M.

BULLETIN No. 249—BOTTLED PICKLES.

Ottawa, February 19, 1913

WM. HINSWORTH, Esq.,
Acting Deputy Minister of Inland Revenue.

Sir,—I beg to send you herewith a report upon eighty (80) samples of Bottled Pickles, purchased by the inspectors of this Department in April and May of last year. The last report upon Pickles was published as Bulletin No. 163, in September, 1908.

Pickles are, as a rule, very carefully prepared, and we have no reason to believe that any ground for complaint exists in their regard.

Mouldiness was found in four samples of the present collection. This is not, apparently, due to the use of imperfect fruit or vegetables in their preparation, but rather to the employment of too weak a vinegar; vinegar containing $2\frac{1}{2}$ p. c. of Acetic Acid, or more, appears to be best suited to use in bottled Pickles, so far as our experience goes.

Fourteen samples give evidence of the employment of Acetic Acid having its origin in a distillation process in their manufacture. The vinegar in admixture with which the pickles are sold, must meet the standards legalized for vinegar under the Adulteration Act.

Sixteen samples exhibit traces of Alum, but only one sample contains any notable amount. Alum is extensively used for the purpose of keeping the vegetables hard and firm. It has not been established that the minute quantities of Alum necessary for this purpose are, in any degree, harmful to human health. This may be due to the fact that Pickles are consumed in small quantity only, and as a condiment rather than for food purposes.

It is probable that sound vegetables can be kept in a desirable state of firmness by the use of Vinegar only, provided that the Vinegar is sufficiently strong.

I beg to recommend publication of this report as Bulletin No. 249.

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.							
April 25	Bottled Pickles.	47056	Wm. Moore, Halifax, N.S.	3 bots.	60	White & Co., London, Eng.	Macnochie Bros., London, Eng.
" 26	"	47057	John Tobin & Co., Halifax, N.S.	"	60	Heintz & Co., Leamington, Ont.	Manufacturers....
" 26	"	47058	Wentzells, Ltd., Halifax, N.S.	"	75	Macnochie Bros., London, Eng.	"
" 26	"	47059	A. & W. Smith & Co., Halifax, N.S.	"	35	Lea's Ltd., Simcoe, Ont.	"
" 26	"	47060	The Moulton Tracey Mfg. Co., Halifax, N.S.	"	35	Vendors.....	
DISTRICT OF PRINCE EDWARD ISLAND—							
May 21	Bottled Pickles.	46211	Stewart & Son, Charlottetown, P.E.I.	3 bots.	90	Cross & Blackwell, Soho, London.	
" 21	"	46212	Beer & Goff, Charlottetown, P.E.I.	"	66	Chas. Heaton & Co., West Ferry Road, London, Eng.	
" 21	"	46213	B. F. Maddigan & Co., Charlottetown, P.E.I.	"	60	Matthews, London, Eng.	
" 21	"	46214	John McKenna, Charlottetown, P.E.I.	"	36	Jno. Stephens, Sons & Co., Gloucester, Eng.	
" 21	"	46215	J. P. Duffy, Charlottetown, P.E.I.	"	60	White & Co., London, Eng.	
DISTRICT OF NEW BRUNSWICK—							
April 15	Bottled Pickles.	45650	W. A. Fairweather Co., Ltd., St. John, N.B.	3 bots.	45	Vendors	
May 12	"	45651	Yerxa Grocery Co., Fredericton, N.B.	"	57		A. T. Randolph & Son, Fredericton
April 26	"	45652	F. E. Rose, St. Stephen, N.B.	"	75	Lea Pickling & P. Co., Ltd., Simcoe, Ont.	
May 6	"	45653	Geo. T. Baird Co., Ltd., Perth, N.B.	"	54	Jno. Stevens & Co., Ltd., Gloucester, Eng.	
" 10	"	45654	2 Barkers, Ltd., Moncton, N.B.	"	30	Rowat & Co., Glasgow.	
DISTRICT OF QUEBEC—							
April 24	Bottled Pickles.	37428	Emile Emond, 32 Rue Liberte, Quebec.	3 bots.	45	Lytle, Toronto.	J. B. Reneaud & Cie.
" 25	"	37429	Jos. Boutin, 40 Rue de L. Eglise, Quebec.	"	30	Rowat & Co., Glasgow.	Bedard et Frere...
" 25	"	37430	Narcisse Lamontagne, 143 Rue Fleury, Quebec.	"	54	Lytle, Toronto.	J. B. Reneaud et Cie.
" 25	"	37431	J. E. Marand, 406 Rue St. Valier, Quebec.	"	45	"	" ..
" 25	"	37432	J. F. Goslin, 50 Rue D'Orchester, Quebec.	"	54	Imperial Pickles, Glasgow.	Barbeau & Godbout.

SESSIONAL PAPER No. 14

BOTTLED PICKLES.

Results of Analysis.

Inspector's Report. (Is not an expression of opinion).	Soundness of Vegetables.	Alum.	Acetic Acid $C_2H_3O_2$	Ferrous Acid	No. of Sample	Remarks and Opinion of the Chief Analyst.
R. J. WAUGH, INSPECTOR.						
Sold as mixed	Sound and Firm	None	3.01	Trace	47056	
"	"	"	2.96	None	47057	
"	"	"	4.75	"	47058	
Sold as sour	"	Light trace	2.46	0.025 present	47059	Acetic Acid used
Brandell's	"	None	1.85	None	47060	
WM. A. WEEKS, INSPECTOR.						
"	Sound and Firm	None	3.42	0.042 present	4211	Acetic Acid used
"	"	"	2.82	0.020 present	4212	
"	"	"	2.46	None	4213	
"	"	"	3.10	"	4214	
"	"	Light trace	4.17	0.07 present	4215	Acetic Acid used.
J. C. FERGUSON, INSPECTOR.						
"	Sound and Firm	None	1.49	None	45630	
Heaton's Pickles	"	"	3.43	0.0197 present	45631	Acetic Acid used.
"	"	"	1.50	None	45632	
"	"	"	2.76	0.018 present	45633	Acetic Acid used.
"	"	"	1.60	None	45634	
E. X. W. E. BELAND, INSPECTOR						
"	Sound and Firm	None	1.86	None	37428	
"	"	"	3.14	"	37429	
"	"	"	2.22	"	37430	
"	"	Light trace	2.42	"	37431	
"	"	Heavy trace	3.19	"	37432	Alum used.

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.							
April 17	Bottled Pickles.	38987	Hector Cyr, Granby.	3 jars.	39	Rowat & Co., Glasgow and Liverpool.	
" 3	"	38988	Fred J. Terrill, Mel-bourne.	3 "	75	The T. A. Lytle Co., Toronto.	
May 1	"	38989	A. Cardin, Actonvale.	3 "	45	Maconochie Bros., Ltd., London, Eng.	
" 3	"	38990	G. Girouard, Victoria-ville.	3 "	45	H. J. Heintz Co.	
" 6	"	38991	H. Messier, St. Hyacinthe.	3 "	30	Bastian Pickle Co., Montreal.	
DISTRICT OF MONTREAL—							
April 17	Bottled Pickles.	39995	R. Jacobson, 312 St. Dominique st., Montreal.	3 bots	30	Bastian Pickle Works	
" 17	"	39996	Aubin & Co., St. Lawrence mkt., Montreal.	3 "	40	H. Bourque & Son, Montreal.	
" 19	"	39997	S. L. Desaulniers, 137 N. D. st. west, Montreal.	3 "	75	Taylor & Pringle Co., Ltd., Owen Sound.	
" 19	"	39998	"	3 "	30	L. Lemeteys, Montreal.	
" 19	"	39999	J. T. Traevy, 137 McGill st., Montreal.	3 "	75	S. Chivers & Co., Ltd., Cardiff.	
DISTRICT OF OTTAWA—							
April 25	Bottled Pickles.	51605	F. H. Gilchrist, Ottawa.	3 bots.	30	Canadian Pickling Co., Toronto.	T. A. Lytle Co. Toronto.
" 25	"	51607	F. A. Reade, Ottawa.	3 "	30	Rowat & Co., Glasgow.	F. J. Castle Co., Ottawa.
" 25	"	51608	H. Richardson, Ottawa.	3 "	75	C. & E. Morton, Eng. Lond.	Unknown
" 25	"	51609	J. H. Lacasse, Ottawa.	3 "	30	Purnell & Panter, Bristol, Eng.	Jos. Grant, Ottawa.
" 25	"	51610	W. A. Ferris, Ottawa.	3 "	75	Jno. Stephens, Son & Co., Ltd., Gloucester, Eng.	F. J. Castle Co., Ottawa.
DISTRICT OF KINGSTON—							
April 15	Bottled Pickles.	49565	Albert Powers, Picton.	3 bots.	30	Wm. Davies, Toronto	
" 16	"	49566	Hoocy & Sons, Co. bourg.	3 "	45	Lea's, Simcoe.	
" 16	"	49567	John Curtis, Port Hope.	3 "	30	C. Gildner & Co., Toronto.	
" 17	"	49568	J. R. Bell, Peterboro.	3 "	30	Stephens, Gloucester, Eng.	
" 17	"	49569	Dutton & Co., Peterboro.	3 "	54	T. A. Lytle Co., Toronto.	

SESSIONAL PAPER No. 14

BOTTLED PICKLES.

Results of Analysis.

Inspector's Report. (Is not an expression of opinion).	Soundness of Vegetables.	Alum.	Acetic Acid $C_2H_4O_2$	Ferrous Acid.	gms. per 100 sample	Remarks and Opinion of the Chief Analyst.
J. C. ROULEAU, INSPECTOR.						
.....	Sound and Firm	Light traces.	2.73	None	38987	
.....	.....	None	1.40	.....	38988	
.....	.....	.....	2.60	.....	38989	
.....	.....	.....	1.40	.....	38990	
.....	Mouldy	Light traces	0.21	.....	38991	Very low acidity Mouldy
J. J. COSTIGAN, INSPECTOR						
"Maple Leaf"	Mouldy	None	0.51	None	39005	Very low acidity Mouldy.
.....	Sound and Firm	.....	2.40	.....	39006	
.....	.....	Light traces	3.41	.....	39007	
.....	.....	None	2.92	.....	39008	
.....	.....	.....	3.61	.....	39009	
J. A. RICEY, INSPECTOR.						
.....	Sound and Firm	None	1.76	None	51606	
.....	.....	.....	3.80	.....	51607	
.....	.....	.....	3.72	.....	51608	
.....	.....	.....	2.60	.....	51609	
.....	.....	Light traces	3.02	0.014% present	51610	Acetic acid used
JAS. HOGAN, INSPECTOR.						
.....	Sound and Firm	None	2.43	None	49565	
.....	.....	.....	2.82	0.011% present	49566	Acetic acid used
.....	.....	.....	3.60	None	49567	
.....	.....	Light traces	3.60	0.017% present	49568	Acetic acid used.
.....	.....	None	.....	None	49569	

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.							
April 18	Bottled Pickles.	49392	C. Gildner & Co., 180 Front St. East, Toronto.	3 bots.	23	Vendors.	
" 18	" ..	49393	M. R. Yost & Son, 198 Portland St., Toronto	3 "	20	" ..	
" 30	Bulk Sweet Pickles.	49394	Wm. Davies Co., Ltd., 102 Queen St. East, Toronto.	3 pts.	45	" ..	
May 1	" ..	49395	Jas. Lawrie, Wellington St., Hamilton.	3 "	45		H. J. Heinz & Co., Toronto.
" 2	Bot'd Sweet Pickles.	49396	W. J. Whitfield, Main St., East Toronto.	3 bots.	60		Unknown.....
DISTRICT OF LONDON—							
May 7	Bottled Pickles..	48256	W. R. Butcher, St. Mary's.	3 bots.	45	Lea Pickling Co., Simcoe.	
" 7	" ..	48258	M. Fleming, St. Marys.	3 "	35	Stephens, London, Eng.	
" 8	" ..	48264	Stuebing & Son, Berlin.	3 "	45	T. A. Lytle Co., Toronto.	
DISTRICT OF WINDSOR—							
May 2	Bottled Pickles.	48236	F. McDougall, Ingersoll.	3 bots.	45	Heinz, Leamington..	
" 2	" ..	48238	Geo. G. Beck, Ingersoll.	3 "	65	Lea Pickling & Preserving Co., Simcoe.	
" 2	" ..	48239	C. A. O'Neil Estate, Ingersoll.	3 "	60	T. A. Lytle Co., Toronto.	
" 3	" ..	48245	Poole & Co., Woodstock	3 "	75	Crosse & Blackwell, London, Eng.	
" 3	" ..	48249	A. M. Smith & Son, Woodstock.	3 "	30	Rowat & Co., Glasgow.	
" 8	" ..	48266	Schell Bros., Berlin..	3 "	30	G. E. Steggall, Streetsville.	
" 8	" ..	48268	Betzner & Co., Berlin.	3 "	75	Maconochie Bros., London, Eng.	
DISTRICT OF MANITOBA—							
April 16	Bottled Pickles.	48641	St. James Cash Grocery, St. James, M.	3 bots.	60	The Dyson Co., Winnipeg.	
" 16	" ..	48642	" " ..	3 "	75	" ..	
" 16	" ..	48643	Duncan & Hunter, St. James, M.	3 "	75	The Blackwood, Ltd., Winnipeg.	
" 16	" ..	48644	" " ..	3 "	75	The White Star Mfg. Co., Winnipeg.	
" 17	" ..	48645	J. Paterson, Portage Ave., Winnipeg.	3 "	75	" ..	

SESSIONAL PAPER No. 14

BOTTLED PICKLES.

Results of Analysis.

Inspector's Report. (Is not an expression of Opinion).	Soundness of Vegetables.	Alum.	Acetic Acid $C_2H_3O_2$	Formic Acid.	Gravimetric No. of Sample	Remarks and Opinion of the Chief Analyst.
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H. J. DAGGER, INSPECTOR.

			p. c.		
Standard "Brand".	Sound and Firm.	Trace	1.62	None	4992
		None	3.00		4993
			1.58		4994
			3.60		4997
"Queen Quality".	"	"	2.72		4996

JNO. TALBOT, ACTING INSPECTOR.

Lea's Celebrated Pickles.	Sound and Firm.	Light trace	2.34	None	4826
Stephen's New Pickles.	"	None	3.21		4828
Labelled "Sweet Midgotts," "Sterling" Brand.	"	Trace	2.00		4824

JNO. TALBOT, INSPECTOR.

Heinz Sweet Pickles.	Mixed Sound and Firm	None	2.95	None	4820
Lea's Celebrated Pickles, sour, mixed	"	"	2.46		4828
Sterling Brand Sweet Mixed Pickles.	"	Light trace	1.52		4829
Mixed Pickles.	"	None	3.36		4825
Rowat's Superior Pickles.	"	"	3.42		4849
English John Bull Pickles.	"	"	2.24		4829
Macomber's Fruit Pickles.	"	"	4.46	0.020% present	4828 Acetic Acid used.

A. C. LARIVIERE, INSPECTOR.

East India Relish.	Sound and Firm	Trace	3.68	None	4844
Sweet Mixed Pickles.	"	None	2.88	"	4842
Blackwood's Onion Pickles.	"	"	5.39	"	4843
Sweet Mixed Pickles.	"	"	2.79	"	4844
"	"	"	2.00	"	4845

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 CALGARY—

1912.							
April 7	Bottled Pickles.	44160	Campbell, Wilson & Horne, Lethbridge.	3 bots.	60	The Dyson Co., Winnipeg.	
" 7	"	44161	H. A. McKillop & Co., Lethbridge.	3 "	1 20	H. J. Heinz, Pittsburg.	
" 7	"	44162	A. MacDonald Co., Lethbridge.	3 "	50	White Star Manufacturing Co., Winnipeg.	
" 7	"	44163	Hudson Bay Co., Lethbridge.	3 "	1 00		
" 7	"	44164	Bentley Co., Ltd., Lethbridge.	3 "	75	Lea Pickling and Preserving Co., Simcoe, Ont.	

DISTRICT OF NELSON—

April 18	Bottled Pickles.	49613	Cooper & Christine, Vernon, B.C.	3 bots.	75	Rowat & Co., Glasgow, Scot.	
" 18	"	49647	W. H. Smith, Vernon, B.C.	3 "	90	Leas, Ltd., Simcoe, Ont.	
" 18	"	49648	"	3 "	1 20	Gallard & Co., London.	
" 18	"	49652	W. R. Megaw, Vernon, B.C.	3 "	1 05	Dewar, Watson & Co., Glasgow, Scot.	
" 18	"	49653	"	3 "	1 00	Wilson's, Leeds, Eng.	

DISTRICT OF VANCOUVER—

May 2	Bottled Pickles.	38341	Gruchy & Carlaw, Vancouver.	3 jars.	1 05	Crosse & Blackwell, London, Eng.	
" 2	"	38342	Armour MacFarlane, Vancouver.	3 "	75	Thos. W. Lipton, London, Eng.	
" 2	"	38343	Cook Bros., 4th Ave., Vancouver.	3 "	75	Rowat & Co., Liverpool, Eng.	
" 2	"	38344	Z. Stephens, 4th Ave., Vancouver.	3 "	75	White Star Mfg. Co., Winnipeg.	
" 2	"	38345	Mills & McAdam, Vancouver.	3 "	75	Maconochie Bros., London, Eng.	

DISTRICT OF VICTORIA—

April 23	Bottled Pickles.	49140	Windsor Grocery Co., Victoria	3 bots.	1 05	W. R. Houston & Co., Victoria.	
" 24	"	49141	The West End Grocery Co., Ltd., Victoria.	3 "	60	E. Lazenby & Son, London, S.E.	
" 24	"	49142	Harrison & McDonald, Victoria.	3 "	75	Holbrook & Co., London, Eng.	
" 25	"	49143	Wm. B. Hall, Victoria.	3 "	1 05	H. J. Heinz & Co., Pittsburg.	
" 25	"	49144	Dixie H. Ross, Victoria.	3 "	75	C. & E. Morton, London, Eng.	

SESSIONAL PAPER No. 14

BOTTLED PICKLES.

Results of Analysis.						
Inspector's Report. (Is not an expression of opinion.)	Soundness of Vegetables.	Alum.	Acetic Acid $C_2H_3O_2$	Formic Acid.	No. of Sample	Remarks and Opinion of the Chief Analyst.
R. W. FLETCHER, INSPECTOR.						
						p. c.
	Sound and Firm	Light trace.	1.64	None	4460	
	"	"	2.96	"	4461	
	"	None	2.47		4462	
Put up for Hudson Bay Co.	"	"	3.38	0.021 present.	4463	Acetic acid used.
Pearl Onions	"	"	2.31	0.025 present	4464	"
THOS. PARKER, INSPECTOR.						
	Sound and Firm	None	1.27	None	4963	
	"	"	2.88	Trace	4964	
	"	"	3.47	"	4968	
	"	"	1.40	None	4962	
	"	"	3.24	"	4973	
J. E. POWER, INSPECTOR.						
Mixed pickles.	Sound and Firm	None	3.42	0.008 present	3834	Acetic acid used.
Lipton's choice mix ed.	"	"	3.06	Trace	3832	
Rowat's superior pic- kles in pure vinegar	"	"	3.60	"	3835	
Guaranteed to be ab- solutely pure and not injurious.	Mouldy on top	Light trace.	1.64	None	3834	Mouldy.
Mixed pickles.	Sound and Firm	None	3.20	"	3835	
D. O'SULLIVAN, INSPECTOR.						
Sweet pickles.	Mouldy	None	1.04	0.020 present.	4949	Acetic acid used. Mouldy.
Mixed pickles.	Sound and Firm	"	3.02	None	4941	
"	"	"	4.11	"	4942	
Heinz's sour mixed pickles.	"	"	3.84	"	4943	
Morton's sweet mix- ed pickles.	"	"	2.64	"	4944	

APPENDIX N.

BULLETIN No. 250—GROUND WHITE PEPPER.

OTTAWA, February 19, 1913.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister,
Inland Revenue.

SIR,— I beg herewith to hand you a report upon two hundred and seventy three samples sold to our inspectors as Ground White Pepper in September and October of last year. The inspection was made throughout the Dominion, and may be taken to fairly represent the articles found upon the Canadian market.

The result of the analysis may be summarized as follows:

Found genuine.....	215	samples.
“ adulterated.....	53	“
“ doubtful.....	5	“
Total.....	273	“

It thus appears that adulteration in White Pepper amounts to 19% of the samples collected. The last report upon White Pepper is contained in Bulletin No. 203, of March, 1910; on that occasion one hundred and forty samples were reported and adulteration amounted to 17%.

It will be seen that both White and Black Pepper continue to be among the most extensively adulterated foodstuffs on the market.

I beg to recommend the publication of this report as Bulletin No. 250.

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.		Inspector's Report (Is not an expression of opinion.)
				Quality.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA—

1912.									
Sept. 11	Ground White Pepper	46821	Wentzells L'd., Halifax, N.S.	$\frac{3}{4}$ lb.	22	Jno. P. Mott Co. Halifax, N.S.	Manufacturers		
" 11	"	46822	Wm. Moore, Halifax, N.S.	$\frac{3}{4}$ "	27	Jno. P. Mott Co., Halifax, N.S.	"		
" 13	"	46823	Jno. P. Mott & Co., Halifax, N.S.	$\frac{3}{4}$ "	cil	Vendors			
" 13	"	46824	Nat. Drug & Chem. Co., Halifax, N.S.	$\frac{3}{4}$ "	25	"			
" 16	"	46825	Morrison & Williams, Halifax, N.S.	$\frac{3}{4}$ "	22	Puddington, Wetmore & Morrison, St. John, N.B.	Manufacturers		
" 17	"	46826	Bauld Bros., Ltd., Halifax, N.S.	$\frac{3}{4}$ "	19	Unknown, said to be J. R. Mott & Co., Halifax.			
" 17	"	46827	Jas. Scott & Co., Halifax, N.S.	$\frac{3}{4}$ "	30	W. H. Schwartz & Sons, Halifax.	Manufacturers		
" 18	"	46828	Corkum & Ritcey, Halifax, N.S.	$\frac{3}{4}$ "	23	Gorman Eckert Co., London, Ont.	"		
" 18	"	46829	A. J. Baker & Co., Halifax, N.S.	$\frac{3}{4}$ "	30	Gorman Eckert Co., London, Ont.	"		
" 19	"	46830	W. H. Schwartz & Sons, Halifax, N.S.	$\frac{3}{4}$ "	20	Vendors			
" 19	"	46831	L. W. Crease & Son, Halifax, N.S.	$\frac{3}{4}$ "	30	Jno. P. Mott & Co., Halifax.	Manufacturers		
" 19	"	46832	Dillon Bros., Halifax, N.S.	$\frac{3}{4}$ "	45	Todhunter, Mitchell Co., Toronto, Ont.	"		
" 24	"	46833	Yexas, Yarmouth, N.S.	$\frac{3}{4}$ "	25	H. W. Cole, St. John, N.S.	"		
" 27	"	46834	Eisener & Coleman, Dartmouth, N.S.	$\frac{3}{4}$ "	38	C. H. Cochrane Co., Ottawa.	"		
Oct. 3	"	46835	A. F. Ross, Truro, N.S.	$\frac{3}{4}$ "	35	Unknown			
" 5	"	46836	H. C. Barnaby & Sons Bridgewater, N.S.	$\frac{1}{4}$ "	30	Jno. P. Mott & Co., Halifax.	Manufacturers		
" 7	"	46837	Jas. Hogan, Halifax, N.S.	$\frac{3}{4}$ "	30	Unknown			
" 8	"	46838	T. J. Brown, Halifax, N.S.	$\frac{3}{4}$ "	20	"			
" 8	"	46839	W. J. Hopgood & Son, Halifax, N.S.	$\frac{3}{4}$ "	30	W. H. Schwartz & Sons, Halifax, N.S.	Manufacturers		
" 8	"	46840	C. McNab & Co., Dartmouth, N.S.	$\frac{3}{4}$ "	30	Jno. P. Mott & Co., Halifax, N.S.	"		

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
1.62	Pepper tissues only	46821	Genuine.
1.46	" "	46822	"
1.30	" "	46823	"
1.60	" "	46824	"
1.74	" "	46825	"
1.44	" "	46826	"
2.00	" "	46827	"
1.05	" "	46828	"
1.10	" "	46829	"
1.40	" "	46830	"
4.48	" " (Black pepper)	46831	"
1.32	" "	46832	"
1.04	" "	46833	"
1.60	" "	46834	"
3.66	" "	46835	"
1.38	" "	46836	"
4.64	Pepper tissues, wheat starch and foreign stone cells	46837	Adulterated
1.96	Pepper tissues only	46838	Genuine.
2.06	" "	46839	"
1.20	" "	46840	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF PRINCE EDWARD ISLAND

1912.	6	Ground White Pepper.	46247	Grant & Co., Ch. Town, P. E.I.	$\frac{3}{4}$ lb.	27	White Swan S. & C., Ltd., Toronto.		
"	6	"	46248	J. G. Jamieson, Ch. Town, P.E.I.	$\frac{3}{4}$ "	36	Lymans, Ltd., Montreal.		
"	7	"	46249	A. Gates & Co., Ch. Town, P. E.I.	$\frac{3}{4}$ "	30			
"	9	"	46250	Coffin & Co., Ch. Town, P. E.I.	$\frac{3}{4}$ "	30	G. D. Barbour, St. John, N.B.		
"	10	"	46251	The McKinnon Drug Co., Ch. Town, P.E.I.	$\frac{3}{4}$ "	24	Unknown.....		
"	12	"	46252	The W.W. Walker Ch. Town, P. E.I.	"	30		Carvell Bros., Ch. Town, P. E.I.	
"	12	"	46253	L. A. Haszard, Ch. Town, P. E.I.	$\frac{3}{4}$ "	27	Schwartz & Sons Halifax.		
"	21	"	46254	Apothecaries Hall, Ch. Town, P.E.I.	$\frac{3}{4}$ "	24	Lymans, Ltd., Montreal.		
"	21	"	46255	Sanderson & Co., Ch. Town, P. E.I.	$\frac{3}{4}$ "	30	Schwartz & Sons, Halifax, N.S.		
Oct.	1	"	46256	Courlies, Ltd., Summerside, P.E.I.	$\frac{3}{4}$ "	30	Canadian Drug Co., St. John, N.B.		
"	1	"	46257	Sinclair & Stewart, Summerside, P.E. I.	$\frac{3}{4}$ "	30	Schwartz & Sons, Halifax, N.S.		
"	1	"	46258	Bruce McKay & Co., Summerside, P.E.I.	$\frac{3}{4}$ "	30	Schwartz & Sons, Halifax N.S.		
"	3	"	46259	Mathew & McLean, Souris,	$\frac{3}{4}$ "	30	Dearborn & Co St. John, N.B.		

DISTRICT OF NEW BRUNSWICK—

Sept.	4	Ground White Pepper.	50420	Dearborn & Co., St. John, N.B.	$\frac{3}{4}$ lb.	21	Vendors.....		
"	4	"	50421	Puddington, Wetmore & Morrison, Ltd., St. John, N.B.	$\frac{3}{4}$ "	21	"		
"	4	"	50422	G. E. Barbour Co., Ltd., St. John, N.B.	$\frac{3}{4}$ "	28	"		
"	5	"	50423	H. W. Cole, Ltd., St. John, N.B.	$\frac{3}{4}$ "	24	"		
"	5	"	50424	L. H. Thorne, S. John, N.B.	$\frac{3}{4}$ "	21	"		

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
WM. A. WEEKS, INSPECTOR.			
1-41	Pepper tissues only.	46217	Genuine.
1-18	" "	46218	"
1-60	Pepper tissues and wheat starch.	46240	Adulterated.
1-22	Pepper tissues only.	46250	Genuine.
1-46	" "	4625	"
1-10	" "	4625	"
2-00	" "	4625	"
1-20	" "	4625	"
1-66	" "	4625	"
2-08	" "	4625	"
1-01	" "	4625	"
1-30	" "	4625	"
4-08	" "	46250	"

JNO. FERGUSON, INSPECTOR.

1-68	Pepper tissues only.	50420	Genuine.
1-42	" "	50421	"
1-08	" "	50422	"
1-20	" "	50423	"
1-64	" "	5042	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quality.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NEW BRUNSWICK—

1912.								
Sept. 9	Ground white pepper.	50425	Baird & Peters, St. John, N.B.	$\frac{3}{4}$ lb.	19	Vendors.....		
" 10	"	50426	W. A. Simonds, St. John, N.B.	$\frac{3}{4}$ "	30	Todhunter, Mitchell & Co., Toronto, Ont.		
" 10	"	50427	McPherson Bros., St. John, N.B.	$\frac{3}{4}$ "	30	C. H. Cochrane Co., Ottawa, Ont.		
" 11	"	50428	F. E. Williams & Co., St. John, N.B.	$\frac{3}{4}$ "	30	J. P. Mott & Co., Halifax, N.S.		
" 16	"	50429	M. E. Grass, St. John, N.B.	$\frac{3}{4}$ "	30		Jones & Schofield, St. John, N.B.	
Oct. 3	"	50430	John McKnight, Fredericton, N.B.	$\frac{3}{4}$ "	30	G. E. Barbour Co., Ltd. St. John, N.B.		
" 3	"	50431	G. T. Whelpley, estate Fredericton, N.B.	$\frac{3}{4}$ "	30	Pure Gold Mfg. Co., Toronto.		
" 15	"	50432	Mills Evelyngh Co. Ltd., Sussex, N.B.	$\frac{3}{4}$ "	30	Unknown.....	Unknown.....	Old stock, Vendor would not guarantee quality.
" 15	"	50433	Sussex Mercantile Co. Ltd., Sussex, N.B.	$\frac{3}{4}$ "	27		H. W. Cole, Ltd. St. John, N.B.	"Thistle" Brand.
" 16	"	50434	Geo. A. Roberson, Moncton, N.B.	$\frac{3}{4}$ "	27	S. H. Ewing & Son, Montreal.		
" 16	"	50435	H. T. Brewster, Moncton, N.B.	$\frac{3}{4}$ "	27		Reed Co. Ltd., Moncton, N.B.	
" 16	"	50436	The 2 Barkers Ltd., Moncton N.B.	$\frac{3}{4}$ "	27		The 2 Barkers Ltd., St. John, N.B.	
" 17	"	50437	Miller Bros., Newcastle, N.B.	$\frac{3}{4}$ "	30	Todhunter Mitchell & Co. Toronto, Ont.		
" 18	"	50438	J. B. Snowball Co. Ltd., Chat ham, N.B.	$\frac{3}{4}$ "	30	Todhunter Mitchell & Co. Toronto, Ont.		
" 19	"	50439	A. T. Hinton, Bathurst, N.B.	$\frac{3}{4}$ "	27		Reed Co. Ltd., Moncton, N.B.	Old stock won not guarant purity.

DISTRICT OF QUEBEC

Sept. 16	Ground white pepper.	37201	Hamel & Bedard, 728 Rue Quebec	$\frac{3}{4}$ lb.	30	Litster Pure Food Co.	Manufacturers.....	
" 17	"	37202	V. Lacasse & Cie, 7 Rue St. Clair, Quebec.	$\frac{3}{4}$ "	30	J. Lemesaire....	Whitead & Turner.	
" 17	"	37203	J. E. Paquet, 8 Rue Sutherland Quebec.	$\frac{3}{4}$ "	30	Unknkwo.....	Unknown.....	

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
<i>Concluded.</i>			
1-40	Pepper tissues only	50425	Genuine.
1-10	" "	50426	"
1-22	" "	50427	"
1-20	" "	50428	"
3-40	" "	50429	"
1-42	" "	50430	"
1-20	" "	50431	"
1-24	Pepper tissues and foreign stone cells in excess	50432	Adulterated, sold without guarantee of purity.
0-96	Pepper tissues only	50433	Genuine.
1-16	" "	50434	"
1-42	" "	50435	"
2-84	" "	50436	"
1-08	" "	50437	"
1-72	" "	50438	"
1-74	" "	50439	"

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

1-26	Pepper tissues only	37201	Genuine.
1-12	" "	37202	"
2-36	Pepper tissues and maize starch	37203	Adulterated.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF QUEBEC—

1912	Ground White pepper.							
Sept. 17		37204	L. Filion, 166 Rue Latourel, Quebec.	$\frac{3}{4}$ lb	30	Quebec, Spice...	Manufacturers...	
" 17	"	37205	J. Rochette, 7 Rue Deligny, Quebec.	$\frac{3}{4}$ "	30	Unknown.....	Langlois & Paradis.	
" 18	"	37206	Alfred Boily, 38 Cote D'Abraham, Quebec.	$\frac{3}{4}$ "	30	Herron & Leblanc.	Manufacturers...	
" 18	"	37207	M. Boyce & Son 1922 Cote D'Abraham, Quebec.	$\frac{3}{4}$ "	30	Herron & Leblanc.	"	
" 18	"	37208	J. A. Traublay, 139 Rue Richlieu, Quebec.	$\frac{3}{4}$ "	30	Unknown.....	J. B. Rencaud & Cie.	
" 19	"	37209	Geo. Trottier, 180 $\frac{1}{2}$ Rue St. Olivier, Que.	$\frac{3}{4}$ "	30	Unknown.....	Unknown.....	
" 19	"	37210	Emile Brousseau 17 Rue Sutherland Quebec.	$\frac{3}{4}$ "	30	.....	.....
" 19	"	37211	R. Cantin, 326 Rue St. Olivier Quebec.	$\frac{3}{4}$ "	30	Canadian Spice Mills.	Manufacturers...	
" 3	"	37492	Eudore Delisle, 2 ave. Tachereau, Quebec.	$\frac{3}{4}$ "	30	Herron & Leblanc.	Manufacturers...	
" 4	"	37493	O. Lacroix, 19 Rue St. Joseph Quebec.	$\frac{3}{4}$ "	30	Lemesarie &	J. B. Rencaud & Cie.	
" 5	"	37494	W. Cantin, 133 Rue du Pont, Quebec.	$\frac{3}{4}$ "	30	.....	Unknown.....	
" 6	"	37495	G. Gingras, 268 Rue duRaie, Quebec.	$\frac{3}{4}$ "	30	Unknown.....	.....
" 9	"	37496	Cantin & Frere, 271 Rue St. Joseph, Que.	$\frac{3}{4}$ "	30	"	.....
" 10	"	37497	C. S. Riverin, 50 Rue de la Couronne, Que.	$\frac{3}{4}$ "	30	.....	.....
" 11	"	37498	Myrand & Poulriot, 70 Rue de la Couronne, Quebec.	$\frac{3}{4}$ "	30	Unknown.....	Unknown.....	
" 12	"	37499	Arthur Drolet, 714 Rue St. Valier, Que.	$\frac{3}{4}$ "	30	"	Herron & Leblanc.	
" 13	"	37500	Arthur Rinfret, 414 Rue S. Joseph, Que.	$\frac{3}{4}$ "	30	"	Unknown.....	

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
<i>Concluded.</i>			
2-24	Pepper tissues only	37204	Genuine.
1-46	" "	37205	"
2-51	Pepper tissues and wheat starch.	37206	Adulterated.
1-08	" " " "	37207	"
3-88	Pepper tissues only.	37208	Genuine.
2-30	Pepper tissues and wheat starch.	37209	Adulterated.
1-74	Pepper tissues wheat, and other starches	37210	"
1-04	Pepper tissues only.	37211	Genuine
2-20	Pepper tissues and wheat starch.	37492	Adulterated.
1-08	Pepper tissues only.	37493	Genuine.
4-24	" "	37494	"
1-64	Pepper tissues and wheat starch.	37495	Adulterated.
2-18	Pepper tissues and a little wheat starch.	37496	Doubtful
1-04	Pepper tissues and a little maize starch.	37497	"
1-90	Pepper tissues, wheat and maize starches.	37498	Adulterated.
1-42	" "	37499	"
1-46	Pepper tissues only.	37500	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF ST. HYACINTHE

1912.								
Sept. 16	Ground White pepper.	1412	A. Letendre, St. Bonaventure.	$\frac{3}{4}$ lb.	30	.....	C. Labelle & Cie Sorel.	.....
" 17	" ..	1413	L. Descheneau, Pierreville Mills.	$\frac{3}{4}$ "	30	.....	C. Labelle & Cie Sorel.	.....
" 17	" ..	1414	J. E. Turbide, Yamaska, est.	$\frac{3}{4}$ "	15	.....	.....	.....
" 18	" ..	1415	A. Casaban Sorel.	$\frac{3}{4}$ "	26	.....	Kearney Bros. Montreal.	.....
" 18	" ..	1416	H. Tetrault Contrecoeur.	$\frac{3}{4}$ "	30	.....	L. Chaput, fils & Cie, Montreal	.....
" 19	" ..	1417	H. de La Barre Lac St. Ours.	$\frac{3}{4}$ "	30	J. V. Boudrias, Montreal.	.....	.....
" 19	" ..	1418	J. A. Girouard, St. Ours.	$\frac{3}{4}$ "	30	S. H. Ewing & Son, Montreal	.....	.....
" 24	" ..	1419	W. R. Simpson, St. Jean.	$\frac{3}{4}$ "	30	White Swan S. & C. Ltd., Toronto.	.....	.....
" 25	" ..	1420	Aime Lemieux, Henryville.	3 tins	30	.....	.....	.....
" 25	" ..	1421	Corriveau & Freres, St. Sebasien.	$\frac{3}{4}$ lb.	23	Unknown.	S. H. Ewing & Sons.	.....
" 26	" ..	1422	J. E. England, Dunham.	$\frac{3}{4}$ "	30	Pure Gold Mfg. Co., Toronto.	.....	.....
" 27	" ..	1423	T. Landry & fils, Philipsburg	$\frac{3}{4}$ "	23	Unknown.	Unknown. ....	.....
Oct. 2	" ..	1424	Nap. Sevigny, Megantic.	$\frac{3}{4}$ "	25	.....	W. Genest & fils Sherbrooke.	.....
" 2	" ..	1425	F. Lapointe & Cie., Megantic	$\frac{3}{4}$ "	30	S. H. Ewing & Sons, Montreal.	.....	.....
" 3	" ..	1426	T. R. Paige, Coaticook.	3 tins	23	Herron Leblanc Ltd., Montreal.	.....	.....
" 3	" ..	1427	Hopkins & McKee, Coaticook.	$\frac{3}{4}$ lb.	24	Lilster Pure Food Co. Ltd., Toronto.	.....	.....
" 4	" ..	1428	J. B. LeBaron, North Hatley	3 tins.	30	White Swan S. & C., Ltd., Toronto.	.....	.....
" 9	" ..	1429	Oliver Bros., Mansonville...	3 "	30	White Swan S. & C. Ltd., Toronto.	.....	.....
" 10	" ..	1430	Chas. Lefebvre, Sherbrooke.	$\frac{3}{4}$ lb.	30	.....	Denault Grain & Produce Co., Sherbrooke.	.....
" 14	" ..	1431	Gregoire Freres, St. Hyacinthe	$\frac{3}{4}$ "	30	Unknown.	Unknown. ....	.....

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
1-05	Pepper tissues only.	1412	Genuine.
1-60	Pepper tissues, maize and wheat starches.	1413	Adulterated.
6-52	Pepper tissues, maize and wheat starches, (Black pepper).	1414	"
0-81	Pepper tissues only.	1415	Genuine.
1-02	" " "	1416	"
1-20	" " "	1417	"
2-66	Pepper tissues and foreign stone cells in excess.	1418	Adulterated.
1-24	Pepper tissues only.	1419	Genuine.
2-72	Pepper tissues and wheat starch.	1420	Adulterated.
2-22	Pepper tissues, wheat starch and foreign stone cells in excess.	1421	"
1-02	Pepper tissues only.	1422	Genuine.
1-46	" " "	1423	"
1-80	" " "	1424	"
1-64	Pepper tissues and foreign stone cells in excess.	1425	Adulterated.
1-48	Pepper tissues and wheat starch.	1426	"
1-58	Pepper tissues only.	1427	Genuine.
1-20	" " "	1428	"
1-04	" " "	1429	"
2-16	" " "	1430	"
1-44	" " "	1431	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	COST.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF MONTREAL

1912								
Sept. 10	Ground White Pepper.	50961	McFaul Bros., Lachute, P.Q.	$\frac{3}{4}$ lb.	30			
" 10	"	50962	T. Dallaire, Lachute, P.Q.	$\frac{3}{4}$ "	15	Thos. Barrow, Lachute, P.Q.		
" 10	"	50963	A. Lavigne, Lachute, P.Q.	$\frac{3}{4}$ "	30			
Oct. 1	"	50964	A. W. Hugman, Ltd., 281 St. Paul St., Montreal.	$\frac{3}{4}$ "	28	Vendors		
" 1	"	50965	A. Kouri, 31 Bonsecours st. Montreal.	$\frac{3}{4}$ "	30			
" 1	"	50966	John Stroud, 1103 St. Lawrence B., Montreal.	$\frac{3}{4}$ "	30			
" 3	"	50967	J. E. Groulx, 1057 Laurier Ave. W., Outremont, P.Q.	$\frac{3}{4}$ "	30	S. H. Ewing & Sons.		
" 3	"	50968	Limoges et frere 2000 Hutchison st., Montreal.	$\frac{3}{4}$ "	30		Hudon Hebert & Cie., Ltd.	
" 3	"	50969	A. Gadbois, Hutchison & St. Viateur st., Montreal.	$\frac{3}{4}$ "	30	J. V. Boudrias, Montreal.		
" 3	"	50970	The Park Provision Co., 209 St. Viateur st., Outremont, P.Q.	$\frac{3}{4}$ "	30	S. H. Ewing & Sons.		
" 3	"	50971	H. Ward, 108 Viateur, st., Montreal.	$\frac{3}{4}$ "	30			
" 3	"	50972	E. Pelland, 180 Fairmount ave. W., Montreal.	$\frac{3}{4}$ "	30			
" 3	"	50973	E. Tessier, 70 Laurier ave. W., Montreal.	$\frac{3}{4}$ "	30		Herron, Leblanc, Ltd.	
" 4	"	50974	Frank D. Hall, St. Agathe de Monts, P.Q.	$\frac{3}{4}$ "	30			
" 4	"	50975	G. Cote, St. Agathe de Monts, P.Q.	$\frac{3}{4}$ "	30		L. Chaput fils & Co., Ltd.	
" 4	"	50976	T. J. Collins, St. Agathe de Monts, P.Q.	$\frac{3}{4}$ "	30	Herron, Leblanc, Ltd.	Hudon & Orsale Montreal.	
" 7	"	50977	Jas. Graham, 4451 St. Cath. St., Westmount.	$\frac{3}{4}$ "	30			

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample	Remarks and Opinion of the Chief Analyst.
1.52	Pepper tissues, wheat and foreign starches	50961	Adulterated.
0.80	" "	50962	"
1.32	Pepper tissues only	50963	Genuine.
0.94	" "	50964	"
2.00	Pepper tissues, wheat starch and foreign starch	50965	Adulterated.
1.40	Pepper tissues only	50966	Genuine.
2.04	" "	50967	"
1.64	" "	50968	"
1.16	" "	50969	"
1.52	" "	50970	"
1.14	" "	50971	"
1.64	" "	50972	"
1.48	Pepper tissues and foreign starch (probably rice)	50973	Adulterated.
1.60	Pepper tissues, wheat and foreign starches	50974	"
1.24	Pepper tissues only	50975	Genuine.
1.96	Pepper tissues, wheat and foreign starch	50976	Adulterated.
1.94	" only	50977	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF MONTREAL								
1912.	Ground White pepper.							
Oct. 8		50978	Theo. Rochon, 210 City Hall Ave., Montreal.	$\frac{3}{4}$ lb.	30		Kearney Bros., Montreal.	
" 10	"	50979	J. O. Malo, Joliette, P.Q.	$\frac{3}{4}$ "	30			
" 11	"	50980	J. Miller, 117 Galt Ave. Verdun, P.Q.	$\frac{3}{4}$ "	30			

DISTRICT OF OTTAWA—

Aug. 30	Ground White Pepper.	50212	Cameron & Downing, Van- kleek Hill, Ont.	$\frac{3}{4}$ lb.	30	Mathewson's Sons, Mont- real.	Manufacturers	
" 31	"	50213	C. A. Farmer & Son, Perth, Ont.	$\frac{3}{4}$ "	30	Pure Gold Mfg. Co., Toronto	"	
Sept. 4	"	50214	S. Berger, 510 Bank St., Ot- tawa, Ont.	$\frac{3}{4}$ "	30	Unknown	H. N. Bate & Sons, Ottawa.	
" 4	"	50215	Geo. Agar, 409 Bronson Ave., Ottawa, Ont.	$\frac{3}{4}$ "	30	"	H. N. Bate & Sons, Ottawa.	
" 4	"	50216	H. A. McCagg, 698 Gladstone Ave., Ottawa, Ont.	$\frac{3}{4}$ "	30	"	F. J. Castle Co., Ltd., Ottawa.	
" 4	"	50217	Alex. Phillips, Rochester St., Ottawa, Ont.	$\frac{3}{4}$ "	30	"	H. N. Bate & Sons, Ottawa.	
" 5	"	50218	J. B. Bedard, Wellington St. Hull, P.Q.	$\frac{3}{4}$ "	30	"	F. J. Castle Co., Ltd., Ottawa.	
" 5	"	50219	J. E. Ryan & Co., Welling- ton St., Hull, P.Q.	$\frac{3}{4}$ "	30	C. H. Cochrane & Co., Ot- tawa.	Manufacturers	
" 5	"	50220	Jules Gratton, Wellington St. Hull, P.Q.	$\frac{3}{4}$ "	30			
" 6	"	50221	Jas. McDougall, Brockville.	$\frac{3}{4}$ "	30	J. M. Lowes Co., Ltd., Toronto	Manufacturers	
" 6	"	50222	F. H. Clifford, Brockville.	$\frac{3}{4}$ "	30	Litster Pure Food Co., To- ronto.	"	
" 6	"	50223	J. Culbert, Brockville.	$\frac{3}{4}$ "	30	Pure Gold Mfg. Co., Ltd., To- ronto.	"	
" 6	"	50224	A. E. Shaver, Brockville.	$\frac{3}{4}$ "	30	Pure Gold Mfg. Co., Ltd., To- ronto.	"	
" 7	"	50225	John Hughes, Prescott.	$\frac{3}{4}$ "	30	J. M. Lowes Co., Toronto.	"	

SESSIONAL PAPER No. 14

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GROUND WHITE PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
<i>Concluded.</i>			
2.68	Pepper tissues only	50978	Genuine.
1.40	" and foreign stone cells in excess	50979	Adulterated.
1.54	" only	50980	Genuine.

J. A. RICKEY, INSPECTOR.

4.64	Pepper tissues only (Black Pepper)	50212	Genuine.
1.13	" "	50213	"
3.76	" and slight excess of foreign stone cells.	50214	Doubtful.
1.96	" " " " "	50215	"
1.94	" and wheat starch	50216	Adulterated.
3.12	" " " " "	50217	"
1.42	" " " " "	50218	"
1.94	" only	50219	Genuine.
1.60	" and wheat starch	50220	Adulterated.
2.00	" only	50221	Genuine.
1.74	" " " " "	50222	"
1.00	" " " " "	50223	"
3.60	" " " " "	50224	"
1.50	" " " " "	50225	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
1912.	Ground White Pepper.	50226	R. A. Scott & Co., Prescott.	$\frac{1}{4}$ lb.	30	C. H. Cochrane Co., Ottawa.	Manufacturers.....	
"	"	50227	Wm. Miller, Somerset St., Ottawa.	$\frac{3}{4}$ "	30	Unknown.....	Unknown.....	
"	"	50228	Major & Hurteau, 816 Somerset St., Ottawa.	$\frac{3}{4}$ "	30	".....	Provost and Alford, Ottawa.	
"	"	50229	G. H. Hall & Co., Preston St., Ottawa.	$\frac{1}{4}$ "	30	C. H. Cochrane & Co., Ottawa.	Manufacturers.....	
"	"	50230	T. R. Davies, Rideau St., Ottawa.	$\frac{2}{4}$ "	30	Unknown.....	H. N. Bate & Sons, Ottawa.	
"	"	50231	W. Miskelly, Merrickville.	$\frac{3}{4}$ "	30	".....	Geo. Robinson & Son, Kingston.	

DISTRICT OF OTTAWA—

DISTRICT OF KINGSTON—

Sept.	3	Ground White Pepper	50731	J. Gilbert, Kingston.	$\frac{1}{4}$ lb.	30	J. M. Lowes, Toronto.	
"	3	"	50732	J. E. Purdy, Kingston.	$\frac{3}{4}$ "	30	Robertson, Nicolle Co., Kingston.	
"	3	"	50733	H. T. Tree, Kingston.	$\frac{3}{4}$ "	26	Unknown.....	Unknown.....
"	3	"	50734	J. A. Percy, Kingston.	$\frac{3}{4}$ "	30	Geo. Robertson & Son, Kingston.	
"	3	"	50735	W. J. Arnill, Kingston.	$\frac{3}{4}$ "	30		
"	4	"	50736	H. M. Stover, Kingston.	$\frac{3}{4}$ "	30	A. Maclean, Kingston.	
"	4	"	50737	W. J. Lee, Kingston.	$\frac{1}{4}$ "	30	W. G. Craig Co, Kingston.	
"	4	"	50738	P. A. Haffner, Kingston.	$\frac{3}{4}$ "	30	J. M. Lowes, Toronto.	
"	4	"	50739	J. Cullen, Kingston.	$\frac{3}{4}$ "	30	A. Maclean, Kingston.	
"	9	"	50740	R. Elvins, Belleville.	$\frac{1}{4}$ "	23	Dalton Bros. Toronto.	
"	9	"	50741	J. B. Harker, Belleville.	$\frac{3}{4}$ "	30	White Swan Co. Toronto.	
"	9	"	50742	George Boyle, Belleville.	$\frac{2}{4}$ "	30	Todhunter & Mitchell, Toronto.	
"	9	"	50743	J. H. P. Young, Belleville.	$\frac{3}{4}$ "	30	Pure Gold Co., Toronto.	
"	10	"	50744	T. McIntosh, Cobourg.	$\frac{3}{4}$ "	30	Todhunter & Mitchell, Toronto.	

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
<i>Concluded</i>			
1.50	Pepper tissues only	50226	Genuine.
2.90	" and wheat starch	50227	Adulterated.
3.50	" and excess of foreign stone cells	50228	"
1.70	Pepper tissues only	50229	Genuine
1.20	" and wheat starch	50230	Adulterated
3.60	" only	50231	Genuine.

JAS. HOGAN, INSPECTOR

1.30	Pepper tissues only	50731	Genuine.
1.50	" and wheat starch	50732	Adulterated.
2.92	" only	50733	Genuine.
2.02	" and wheat starch	50734	Adulterated.
1.84	" " "	50735	"
1.30	" only	50736	Genuine.
1.70	" and wheat starch	50737	Adulterated
1.20	" only	50738	Genuine.
1.30	" " "	50739	"
1.60	" and wheat starch	50740	Adulterated.
3.00	" only	50741	Genuine.
1.42	" " "	50742	"
1.22	" " "	50743	"
1.10	" " "	50744	"

4 GEORGE V., A. 1914

BULLETIN No. 250—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	COST.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF KINGSTON—								
1912	Ground White pepper.							
Sept. 10		50746	H. Crozier, Co-bourg.	$\frac{3}{4}$ lb.	30		White Swan Co. Toronto.	
" 10	"	50747	The Thompson-Maedonald Co. Cobourg.	$\frac{3}{4}$ "	30		White Swan Co. Toronto.	
" 10	"	50748	E. Guillet, Co-bourg.	$\frac{3}{4}$ "	30		W. H. Ewing Co., Montreal.	
" 10	"	50749	F. Rosevear, Port Hope.	$\frac{3}{4}$ "	30			
" 10	"	50750	F. H. Brown, G. Port Hope.	$\frac{3}{4}$ "	30	Unknown	Unknown	
" 11	"	50791	W. J. Roulty, Peterboro.	$\frac{3}{4}$ "	30		Dalton Bros., Toronto.	

DISTRICT OF TORONTO—

Sept. 13	Ground White Pepper.	51401	M. Bellinger, 623 Gerrard St., East Toronto.	$\frac{3}{4}$ lb.	30		Medland Bros., Toronto.	
" 13	"	51402	F. B. Ulling, 1020 Gerrard St., East Toronto.	$\frac{3}{4}$ "	30		Pure Gold Mfg. Co., Ltd., Toronto.	
" 13	"	51403	Rudge & Phillips, 225 Augusta Ave., Toronto.	$\frac{3}{4}$ "	30		H. Pechardt & Co., Toronto.	
" 16	"	51404	W. J. Snell, 2165 Queen St., East Toronto.	$\frac{3}{4}$ "	27		Parsons, Brown & Co., Toronto.	
" 17	"	51405	Wm. Horner, 1001 Bloor St., West Toronto.	$\frac{3}{4}$ "	30			
" 17	"	51406	Smith & Co., 94 Geary Ave. Toronto.	$\frac{3}{4}$ "	30		Davidson & Hay Co., Ltd., Toronto.	
" 17	"	51407	J. Anderson, 1584 Queen St., West Toronto.	$\frac{3}{4}$ "	30		Dalton Bros., Toronto.	
" 17	"	51408	F. A. Drurie, 206 Argyle St., Toronto.	$\frac{3}{4}$ "	27		White Swan S & C., Ltd., Toronto.	Sample taken from original tin labelled: Absolutely pure
" 19	"	51409	Wm. Scanlon, 706 Kingston Road, East Toronto.	$\frac{3}{4}$ "	30		Unknown	
" 19	"	51410	Thos. Earls, 933 Lansdowne Ave., Toronto	$\frac{3}{4}$ "	30		Scott Bros., 190 King St. E., Toronto.	
" 20	"	51411	A. Murray, Aurora.	$\frac{3}{4}$ "	25		Thos. Kinneor, & Co., Toronto.	
" 20	"	51412	G. A. Cook, Newmarket.	$\frac{3}{4}$ "	30		Eby Blain Ltd., Toronto.	Sample taken from original tin labelled: Pure white pepper.

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
<i>Concluded.</i>			
2.70	Pepper tissues only.	50746	Genuine.
2.96	" "	50747	"
1.60	" "	50748	"
1.30	" and wheat starch	50749	Adulterated.
1.02	" only	50750	Genuine.
1.60	" and wheat starch	50791	Adulterated.

H. J. DAGER, INSPECTOR

2.40	Pepper tissues only	51401	Genuine.
2.50	" "	51402	"
1.70	" "	51403	"
1.40	" "	51404	"
1.10	" "	51405	"
1.20	" "	51406	"
1.32	" "	51407	"
1.34	" "	51408	"
1.10	" "	51409	"
1.70	" "	51410	"
1.52	" "	51411	"
1.44	" "	51412	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	COST.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF TORONTO—

1912.	Ground White pepper.	51413	N. Hubbert, Burlington.	¼ lb.	20		Macpherson, Glasco & Co., Hamilton	
"	"	51414	P. & R. Laing, Dundas.	¼ "	30		McLarens Ltd., Hamilton.	
"	"	51415	M. Burkholder, 172 King William St., Hamilton.	¼ "	30		Lumsden Bros., Hamilton.	
"	"	51416	E. C. Jamieson, Wilson & Fairleigh St., Hamilton.	¼ "	30		McLarens Ltd., Hamilton.	
"	"	51417	G. W. Mitson, Loteridge St., Hamilton.	¼ "	23		Unknown.	
"	"	51418	S. Cheeseman, 644 King St. West, Hamilton.	¼ "	30		"	
"	"	51419	M. B. Hibbard, Main & Locke Sts., Hamilton.	¼ "	30		Imp. cocoa & sp. Co., Hamilton.	
"	"	51420	Wm. P. Keating, 237 York St., Hamilton.	¼ "	30		Lumsden Bros., Hamilton.	

DISTRICT OF WINDSOR—

Sept.	Ground White Pepper.	48102	R. Baker, London East.	¼ lb.	30		Unknown.	
"	"	48104	G. H. Mennill, London East.	¼ "	30		I.X.L. Spice & Coffee Co., London.	
"	"	48105	Chas. Deypp, London East.	¼ "	23		I.X.L. Spice & Coffee Co., London.	
"	"	48108	S. M. Fleet, Ingersoll.	¼ "	30		Gorman-Eckert Co., London.	
"	"	48110	P. J. Sherry, Ingersoll.	¼ "	23	E. Adams & Co., London.		
"	"	48112	H. W. Healy, Ingersoll.	¼ "	25	Unknown.	Unknown.	
"	"	48113	Chas. H. Crawford, Ingersoll.	¼ "	30	Imp. coc. & spice Co., Hamilton		
"	"	48116	Buchanan Bros., Ingersoll.	¼ "	30		Gorman Eckert Co., London.	"Forest City" Pure Spices.
"	"	48117	Robt. Stewart, Ingersoll.	¼ "	38		F. F. Dalley, Hamilton.	Labelle dDalley's Pure White Pepper.
"	"	48119	McLeod & MeBain, Ingersoll.	¼ "	30		Gorman-Eckert Co., London.	"Crest" Brand
"	"	48122	W. L. Hoarath, Ingersoll.	¼ "	23	Unknown.	Unknown.	

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

RESULTS OF ANALYSIS

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
<i>Concluded.</i>			
3.90	Pepper tissues only . . .	51413	Genuine.
1.80	" "	51414	"
2.52	" "	51415	"
1.00	" "	51416	"
2.10	" and foreign stone cells	51417	Adulterated
2.40	" only . . .	51418	Genuine
2.20	" and foreign stone cells	51419	Adulterated
2.30	" only . . .	51420	Genuine

JNO: TALBOT, INSPECTOR

1.20	Pepper tissues only	48102	Genuine.
1.30	" "	48104	"
1.30	" "	48106	"
1.10	" "	48108	"
2.20	" "	48110	"
2.74	" and excess of foreign stone cells	48112	Adulterated.
1.80	" and slight excess of foreign stone cells . . .	48113	Doubtful.
1.20	" only . . .	48116	Genuine . . .
1.60	" "	48117	"
1.44	" "	48119	"
1.58	" "	48122	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	COST.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF WINDSOR—

1912.	Ground White pepper.	48124	C. W. Reynolds, Pottersburg...	$\frac{3}{4}$ lb.	30	Gorman-Eckert Co., London.		
" 21	"	48125	Gorman Eckert Co., London.	$\frac{3}{4}$ "	25	Gorman Eckert Co., London.	"Forest City" Pure White Pepper.	
" 21	"	48126	L.X.L. Spice & Coffee Co., London.	$\frac{3}{4}$ "	20	L. N. L. Spice & Coffee Co., London.	"Sweetheart" Pure White Pepper.	
" 12	"	48288	White & Co., Woodstock, Ont.	$\frac{3}{4}$ "	30	White Swan S. & C. Co., Toronto.		
" 12	"	48290	Wm. Pullen, Woodstock, Ont.	$\frac{3}{4}$ "	30	Unknown.		
" 12	"	48293	Lewis & Co., Woodstock, Ont.	$\frac{3}{4}$ "	30	Podhunter & Mitchell, Toronto.		
" 19	"	48295	W. A. Munn, St. Thomas.	$\frac{3}{4}$ "	30	Gorman & Eckert, London.		
" 19	"	48298	Ideal Co-op. Association, St. Thomas.	$\frac{3}{4}$ "	30	Unknown.	Unknown.	
" 19	"	48299	Moylan & Moylan.	$\frac{3}{4}$ "	30	Gorman Eckert Co., London.		

DISTRICT OF MANITOBA—

Sept. 19	Ground White Pepper.	48676	C. A. Whitman, Emerson.	$\frac{3}{4}$ lb.	20	Unknown.	Unknown.	
" 20	"	48677	Campbell Bros. & Wilson, Winnipeg.	$\frac{1}{4}$ "	Nil.	Vendors		
" 20	"	48678	The Dyson Co., Winnipeg.	$\frac{3}{4}$ "	"	"		
" 20	"	48679	The White Star Mfg. Co., Winnipeg.	$\frac{3}{4}$ "	"	"		
" 20	"	48680	The Gold Standard Mfg. Co., Winnipeg.	$\frac{3}{4}$ "	"	"		
" 23	"	48681	P. Nelson, Winnipeg.	$\frac{3}{4}$ "	30			
" 23	"	48682	W. H. Morgan, Winnipeg.	$\frac{3}{4}$ "	30		The Codville Co., Winnipeg.	
" 23	"	48683	Western Mercantile Co., Winnipeg.	$\frac{3}{4}$ "	30			
" 24	"	48684	P. J. Foley & Co., Stonewall.	$\frac{3}{4}$ "	30		The Jobin Marin Co., Winnipeg.	
" 24	"	48685	G. Montgomery Stonewall.	$\frac{3}{4}$ "	30			
" 24	"	48686	I. Genser, Stonewall.	$\frac{1}{4}$ "	30		Campbell Bros. & Wilson Co., Winnipeg.	

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
<i>Concluded.</i>			
1-24	Pepper tissues only	48124	Genuine.
1-20	" "	48125	"
1-30	" "	48126	"
2-40	" "	48288	"
1-26	" "	48290	"
1-00	" "	48294	"
1-24	" "	48295	"
4-60	" " Black Pepper	48298	"
1-30	" "	48299	"

A. C. LARIVIERE, INSPECTOR.

1-42	Pepper tissues only.	48676	Genuine.
1-20	" "	48677	"
1-36	" "	48678	"
1-80	" "	48679	"
3-00	" "	48680	"
2-04	" wheat starch and other foreign starches.	48681	Adulterated.
3-50	" only wheat starch.	48682	Genuine.
1-52	" "	48683	"
1-90	" and wheat starch	48684	Adulterated.
1-12	" only.	48685	Genuine.
1-30	" "	48686	"

4 GEORGE V., A. 1914

BULLETIN No. 250—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	COST.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF MANITOBA—

1912	Ground White pepper.							
Sept. 25	"	48687	C. Finkleman, Selkirk.	$\frac{3}{4}$ lb.	25			
" 25	"	48688	W. Robinson & Co., Ltd., Selkirk.	$\frac{3}{4}$ "	30			
" 25	"	48689	Shepard, Peers Co., Selkirk.	$\frac{3}{4}$ "	30			
" 25	"	48690	W. Epstein, Selkirk.	$\frac{3}{4}$ "	30			
" 26	"	48691	J. Turkletop, Beausejour.	$\frac{3}{4}$ "	30			
Oct. 1	"	48692	D. G. Macdonald, Portage La Prairie.	$\frac{3}{4}$ "	30		The Jobin Marin Co., Ltd., Winnipeg.	
" 1	"	48693	O'Reilly & Co., Portage La Prairie.	$\frac{3}{4}$ "	30			
" 2	"	48694	Smith & Burton Brandon.	$\frac{3}{4}$ "	30			
" 3	"	48695	Brebber & Tillp Oak Lake.	$\frac{3}{4}$ "	30		Campbell Bros. & Wilson, Winnipeg.	

DISTRICT OF NELSON—

Sept. 3	Ground White Pepper.	49690	Bell Trading Co., Nelson, B.C.	$\frac{3}{4}$ lb.	30	W. Braid & Co., Vancouver, B.C.		
" 6	"	49702	G.B. Armstrong Merritt, B.C.	$\frac{3}{4}$ "	30	Kelly-Douglas Co., Vancouver, B.C.		
" 6	"	49712	Merritt Merc., Merritt, B.C.	$\frac{3}{4}$ "	30	W. Braid & Co., Vancouver, B.C.		
" 6	"	49713	Merritt Ind. & Co-op. Soc., Merritt, B.C.	$\frac{3}{4}$ "	20	W. K. Malkin & Co., Vancouver, B.C.		
" 9	"	49720	L. C. Masson, Revelstoke, B.C.	$\frac{3}{4}$ "	30	Kelly-Douglas Co., Vancouver, B.C.		
" 9	"	49725	Bourne Bros., Revelstoke, B.C.	$\frac{3}{4}$ "	40	Empress Mfg. Co., Vancouver, B.C.		
" 9	"	49734	D. Gallicano, Revelstoke, B.C.	$\frac{3}{4}$ "	30	Kelly-Douglas Co., Vancouver, B.C.		
" 10	"	49737	C. B. Hume & Co., Revelstoke, B.C.	$\frac{3}{4}$ "	40	Empress Mfg. Co., Vancouver, B.C.		
" 10	"	49742	J. Guilletto, Revelstoke, B.C.	$\frac{3}{4}$ "	30	Kelly-Douglas Co., Vancouver, B.C.		
" 23	"	49746	C. A. Warren, Golden, B.C.	$\frac{3}{4}$ "	30	W. H. Malkin & Co., Vancouver, B.C.		

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
<i>Concluded.</i>			
2.16	Pepper tissues only	48687	Genuine.
1.20	" and wheat starch	48688	Adulterated.
1.08	" only	48689	Genuine.
1.08	" "	48690	"
4.10	" " Black pepper	48691	"
1.40	" and wheat starch	48692	Adulterated.
3.44	" only	48693	Genuine.
1.32	" "	48694	"
1.18	" "	48695	"

THOS. PARKER, INSPECTOR.

1.10	Pepper tissues only	49699	Genuine.
1.70	Pepper tissues and wheat starch	49702	Adulterated.
1.04	Pepper tissues only	49712	Genuine.
1.10	" "	49713	"
1.30	" "	49720	"
1.48	" "	49725	"
1.54	Pepper tissues and wheat starch.	49734	Adulterated.
1.22	Pepper tissues only	49737	Genuine.
1.34	Pepper tissues and wheat starch.	49742	Adulterated.
1.50	Pepper tissues only	49746	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	COST.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NELSON—

1912.	Ground White pepper.							
Sept. 23		49753	H. G. D. Parson, Ltd., Golden, B.C.	3 tins.	30	Empress Mfg. Co., Vancouver, B.C.		
" 23	"	49760	C. R. Lumber Co., Golden, B.C.	$\frac{3}{4}$ lb.	35	W. Braid & Co., Vancouver, B.C.		
" 23	"	49767	Rolston & Mitchell, Golden, B.C.	3 tins.	30	Empress Mfg. Co., Vancouver, B.C.		
" 24	"	49769	Field Trading Co., Field, B.C.	$\frac{3}{4}$ "	30	Campbell, Wilson & Horne, Calgary.		
" 25	"	49772	C. B. Hume & Co., Arrowhead, B.C.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancouver, B.C.		
" 25	"	49777	Reid & Young, Arrowhead, B.C.	$\frac{3}{4}$ "	30	Kelly-Douglas Co., Vancouver, B.C.		
Oct. 1	"	49786	Citizens' Co-op. Ass'n, Nelson, B.C.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancouver, B.C.		
" 1	"	49787	J. A. Irving, Nelson, B.C.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancouver, B.C.		
" 1	"	49790	Hudsons Bay Co., Nelson, B.C.	$\frac{3}{4}$ "	30	Vendors		
" 1	"	49791	Christie & Benson, Nelson, B.C.	$\frac{3}{4}$ "	40	Empress Mfg. Co., Vancouver, B.C.		

DISTRICT OF VANCOUVER—

Sept. 16	Ground White Pepper.	38359	Smythe & Richards, Vancouver, B.C.	$\frac{3}{4}$ lb.	30	Wm. Braid & Co., Vancouver, B.C.		
" 16	"	38360	Walford & Roney, Granville St., Vancouver, B.C.	$\frac{3}{4}$ "	30	Wm. Braid & Co., Vancouver, B.C.		
" 16	"	38361	R. Shilling, Seymour & Helmsken Sts., Vancouver, B.C.	$\frac{3}{4}$ "	25	Empress Mfg. Co., Vancouver, B.C.		
" 16	"	38362	W. H. Walsh & Co., Ltd., Seymour & Davie Vancouver, B.C.	$\frac{3}{4}$ "	30	Wm. Braid & Co., Vancouver, B.C.		
" 16	"	38363	Halpins' Grocery, 116 Granville St., Vancouver, B.C.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancouver, B.C.		

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
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Concluded.

1-24	Pepper tissues only	49753	Genuine.
1-18	" "	49760	"
1-18	" "	49767	"
1-40	" "	49769	"
1-56	" "	49772	"
1-26	" "	49777	"
1-02	" "	49786	"
1-22	" "	49787	"
1-32	Pepper tissues and maize starch	49790	Adulterated
1-20	Pepper tissues only	49791	Genuine.

J. F. POWER, INSPECTOR

1-10	Pepper tissues only	38359	Genuine.
1-06	" "	38360	"
1-02	" "	38361	"
1-30	" "	38362	"
1-24	" "	38363	"

4 GEORGE V., A. 1914

BULLETIN No. 250—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	COST.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VANCOUVER—

1912 Sept. 16	Ground White pepper.	38364	Vancouver Grocery Co., Nelson & Granville Sts., Vancouver, B.C.	¼ lb.	30			
" 17	"	38365	A. C. Bartig, 8th Ave. & Granville St., Vancouver, B.C.	¼ "	35	Kelly, Douglas & Co., Vancouver, B.C.		
" 17	"	38366	A. MacFarlane, 1469 Broadway W., Vancouver, B.C.	¼ "	30	Kelly, Douglas & Co., Vancouver, B.C.		
" 17	"	38367	White, Thompson Co., South Granville St., Vancouver, B.C.	¼ "	30	Empress Mfg. Co., Vancouver, B.C.		
" 17	"	38368	London Grocery Co., Sixth Ave. & Granville St., Vancouver B.C.	¼ "	30	Kelly, Douglas & Co., Vancouver, B.C.		
" 17	"	38369	Gruchy & Carlaw, Fifth ave. & Grainville, Vancouver, B.C.	"	30	Empress Mfg. Co., Vancouver, B.C.		
" 18	"	38370	Turners Grocery Pender & Hornby Sts. Vancouver, B.C.	"	25	Kelly Douglas & Co., Vancouver B.C.		
" 18	"	38371	A. & C. Grocery 909 Georgia St Vancouver, B.C.	3 tins	30	Kelly Douglas & Co., Vancouver, B.C.		'Nabob' Brand contains nothing but spice of finest quality.
" 18	"	38372	McTaggart & Co., Robson & Granville Sts., Vancouver, B.C.	¼ lb.	30	Kelly Douglas & Co., Vancouver, B.C.		
" 18	"	38373	Hudsons Bay Co. Vancouver B.C.	"	30	Wm. Braid & Co., Vancouver B.C.		
" 18	"	38374	Mills & McAdam 2039 4th Ave. W. Vancouver B.C.	"	30	Unknown.	Hudsons Bay Co.	
" 18	"	38375	J. S. Hirst 1944 Maple St. Vancouver, B.C.	3 tins	30	W. H. Malkin Co. Vancouver B.C.		
" 18	"	38376	Cook, Bros. 1619 4th Ave. W., Vancouver, B.C.	¼ lb.	20	W. H. Malkin Co. Vancouver, B.C.		

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

RESULTS OF ANALYSIS

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
<i>Continued.</i>			
1.24	Pepper tissues and foreign starch probably maize	38364	Adulterated.
1.06	Pepper tissues only	38365	Genuine.
1.14	" "	38366	"
1.18	" "	38367	"
0.86	" "	38368	"
1.40	" "	38369	"
1.04	" "	38370	"
1.22	" "	38371	"
1.20	" "	38372	"
1.60	" "	38373	"
1.12	" "	38374	"
0.88	" "	38375	"
1.24	" "	38376	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VANCOUVER—

1912 Oct. 18	Ground White pepper.	38377	David Spencer Ltd., Vancouver, B.C.	1 lb	30	Kelly Douglas & Co., Vancouver, B.C.		
" 18	"	38378	H. A. Edgett Ltd., Vancouver B.C.	1 "	30	Wm. Braid, & Co., Vancouver, B.C.		

DISTRICT OF VICTORIA—

Sept. 10	Ground White Pepper.	49218	Windsor Gro. Co., 817 Govt. st., Victoria, B.C.	3/4 lb	35	Pioneer Coffee & Spice Mills, Victoria, B.C.		
" 11	"	49219	The West End Grocery Co., Ltd., 1002 Govt. St., Victoria, B.C.	3/4 "	30	Wm. Braid & Co., Vancouver, B.C.		
" 12	"	49220	Copas & Young, 631 Fort st., Victoria, B.C.	2/4 "	20	Wm. Braid & Co., Vancouver, B.C.		
" 16	"	49221	Acton Bros., 1317 Douglas st., Victoria, B.C.	3/4 "	40	Pioneer Coffee & Spice Mills, Victoria, B.C.		
" 16	"	49222	H. & K. Grocery, 1425 Douglas st., Victoria, B.C.	3/4 "	30	Pioneer Coffee & Spice Mills, Victoria, B.C.		
" 18	"	49223	D. H. Ross & Co., 1317 Govt. st., Victoria, B.C.	2/4 "	40	Wm. Braid & Co., Vancouver, B.C.		
" 19	"	49224	Harrison & McDonald, 1218 Douglas st., Victoria, B.C.	3/4 "	30	Empress Mfg. Co., Vancouver, B.C.		
" 20	"	49225	F. E. Plummer, 1118 Quadra st., Victoria, B.C.	2/4 "	30	Empress Mfg. Co., Vancouver, B.C.		
" 24	"	49226	E. G. Bailey, 758 Port st., Victoria, B.C.	3/4 "	40	Empress Mfg. Co., Vancouver, B.C.		
" 25	"	49227	Erskine & Co., 861 Johnston st., Victoria, B.C.	2/4 "	30	R. P. Rithet & Co., Victoria, B.C.		
Oct. 15	"	49241	Henry W. Driver, 856 Yates st., Victoria, B.C.	1 "	25	W. J. Jameson, Coffee Co., Vancouver, B.C.		
" 15	"	49242	W. A. Jamieson Coffee Co., 754 Broughton st., Victoria, B.C.	3/4 "	30	Dunn & Co., Hamilton, Ont.		

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
<i>Concluded.</i>			
1-00	Pepper tissues only	38377	Genuine.
1-10	" "	38378	"
D. O'SULLIVAN, INSPECTOR.			
1-34	Pepper tissues only	49218	Genuine.
1-12	" "	49219	"
1-00	" "	49220	"
1-06	" "	49221	"
1-10	" "	49222	"
1-16	" "	49223	"
1-20	" "	49224	"
1-06	" "	49225	"
1-12	" "	49226	"
1-04	" "	49227	"
1-04	" "	49241	"
1-20	" "	49242	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
1912 Oct. 17	Ground White pepper.	49243	H. Smith, View st., Victoria, B.C.	4½ lb	30	Pioneer Coffee & Spice Mills, Victoria, B.C.		
" 17	"	49244	H. O. Kirkham, 741 Fort st., Victoria, B.C.	¾ "	30	Kelly Douglas & Co., Ltd., Vancouver, B.C.		
" 18	"	49245	Woods & White, 1309 Gladstone ave., Victoria, B.C.	¾ "	30	Pioneer Coffee & Spice Mills, Victoria, B.C.		
" 18	"	49246	J. Renouf, Gladstone & Stanley ave., Victoria, B.C.	¾ "	30	Empress Mfg. Co., Vancouver, B.C.		
" 18	"	49247	E. B. Jones, 1800 Cook st., Victoria, B.C.	¾ "	30	Kelly Douglas & Co., Ltd., Vancouver, B.C.		
" 18	"	49248	Charles Richards, Cook & Mears sts., Victoria, B.C.	¾ "	30	Pioneer Coffee & Spice Mills, Victoria, B.C.		
" 18	"	49249	Linden Grocery, Linden ave. & May st., Victoria, B.C.	¾ "	40	Empress Mfg. Co., Victoria, Vancouver, B.C.		
" 18	"	49250	Pioneer Coffee & Spice Mills, 641 Pembroke st., Victoria, B.C.	¾ "	20	Vendors		

DISTRICT OF VICTORIA—

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
<i>Concluded.</i>			
1.16	Pepper tissues only	49243	Genuine.
2.04	Pepper tissues and excess of foreign stone cells	49244	Adulterated.
1.26	Pepper tissues only	49245	Genuine.
1.08	"	49246	"
1.20	" "	49247	"
1.06	"	49248	"
1.18	"	49249	"
1.28	"	49250	"

APPENDIX O.

BULLETIN No. 251—GROUND CINNAMON AND CASSIA.

OTTAWA, March 5, 1913.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister of Inland Revenue.

SIR,—I beg to submit to you herewith a report upon 250 samples purchased through out 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.

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.

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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*, Breyne.

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 recommend publication of this report as Bulletin No. 251

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

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GROUND CINNAMON.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.			Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H ₂ O.	Microscopical Examination.	

R. J. WATGILL, INSPECTOR

	1.47	1.03	No foreign tissues.	06861 Apparently genuine.
	3.73	0.29		06862 "
	8.13	1.00		06863 Total and insoluble as high.
	3.74	1.02		06864 Apparently genuine.
	3.40	0.29		06865 "
	3.41	0.05		06866 "
	1.74	0.40		06867 "
	1.98	0.60		06868 "
	3.39	0.72		06869 "
	3.46	0.96		06870 "

WAL. A. WEEKS, INSPECTOR

	4.77	0.75	No foreign tissues.	06277 Apparently genuine.
	7.95	4.36	Some outer bark tissue.	06278 Total and insoluble as high.
After sample was purchased and labelled as Cinnamon, vendor said it was "Cassia Cinnamon."	5.54	1.84	No foreign tissues.	06279 Apparently genuine.
	3.04	0.64		06280 "
	1.45	0.79		06281 "
	5.98	1.34		06282 "
	3.44	1.12		06283 "
	4.53	1.29		06284 "
	5.08	1.95	Some outer bark tissues.	06285 "
	3.59	0.18	No foreign tissues.	06286 "

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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.	$\frac{3}{4}$ lb.	21	Vendors	.....
"	4	"	50451 Puddington, Wetmore, Morrison, Ltd., St. John, N.B.	$\frac{3}{4}$ "	21	"	.....
"	4	"	50452 G. E. Barbour Co., Ltd., St. John, N.B.	$\frac{3}{4}$ "	26	"	.....
"	5	"	50453 H. W. Cole, Ltd., St. John, N.B.	$\frac{3}{4}$ "	27	"	.....
"	5	"	50454 McCreedy & Son, Ltd., St. John, N.B.	$\frac{3}{4}$ "	18	"	.....
Oct.	5	"	50455 B. Beveridge, Andover, N.B.	3 pkgs	30	Baird & 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.	$\frac{3}{4}$ lb.	30	.....	Jones & Schofield, St. John, N.B.
"	18	"	50458 Yexa Grocery Co., Ltd., Chatham, N.B.	$\frac{3}{4}$ "	27	Unknown	..... Unknown
"	19	"	50459 A. J. Meaham, Bathurst, N.B.	3 pkgs	24	.....	H. W. Cole, Ltd, St. John, N.B.

DISTRICT OF QUEBEC—

Sept.	3	Ground Cinnamon	37221 Endore Delisle, 2 Ave. Tachereau, Quebec.	$\frac{3}{4}$ lb.	30	Herron & Leblanc	Mrs., Montreal
"	5	"	37222 W. Cantin, 133 Rue du Pont, Quebec.	$\frac{3}{4}$ "	36	Unknown	..... Unknown
"	6	"	37223 G. Gingras, 268 Rue du Roi, Quebec.	$\frac{3}{4}$ "	30	"	J. B. Reneaud & Cie., Quebec.
"	9	"	37224 Cantin Frere, 271 Rue Joseph, Quebec.	$\frac{3}{4}$ "	30	"	.....
"	10	"	37225 C. S. Riverin, 50 Rue de la Couronne, Quebec.	$\frac{3}{4}$ "	30	Litster Pure Food Co., Toronto.	Mrs.
"	11	"	37226 Myrand & Pouliot, 70 Rue de la Couronne, Quebec.	$\frac{3}{4}$ "	30	Unknown	..... Unknown
"	12	"	37227 Arthur Drolet, 714 Rue St. Valier, Quebec.	$\frac{3}{4}$ "	30	"	Herron & Leblanc, Montreal.
"	13	"	37228 A. Rinfret, 414 Rue St. Joseph, Quebec.	$\frac{3}{4}$ "	30	.....	Unknown
"	16	"	37229 Hamel & Bedard, 728 Rue St. Joseph, Quebec.	$\frac{3}{4}$ "	30	Litster Pure Food Co., Toronto.	Mrs.
"	17	"	37230 V. Lacasse & Cie, 7 Rue St. Clair.	$\frac{3}{4}$ "	30	Unknown White & Turner.

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GROUND CINNAMON.

Results of Analysis

Inspector's Report. (Is not an expression of opinion).	Total Ash.	Ash Insoluble in H ₂ O.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	3.06	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; apparently 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	"
"	3.47	1.97	"	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

	8.98	1.29	Some outer bark tissues.	37221	Total and Insoluble ash high.
	4.66	1.76	"	37222	Apparently genuine.
	5.10	2.20	Some foreign starch (pea starch) and other foreign tissues.	37223	Insoluble ash high; adulterated.
	4.60	1.72	"	37224	Adulterated with foreign starch and tissues.
	6.09	3.05	No foreign tissues.	37225	Total and insoluble ash high.
	2.62	0.21	"	37226	Apparently genuine.
	1.95	0.09	" principally starch.	37227	Ash abnormally low; apparently genuine.
	6.09	3.02	A large amount of foreign starches apparently pea and wheat.	37228	Insoluble ash high; adulterated.
	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	$\frac{3}{4}$ lbs	27	.....	L. Chaput fils & Cie, Montreal.
"	16	"	1466 Cyprien Gaumont, St. Bonaventure.	$\frac{3}{4}$ "	18	.....	Schooner & Cie., Pierreville.
"	17	"	1467 Laperriere & Filo, Pierreville.	$\frac{3}{4}$ "	19	Herron Leblanc, Montreal.	.....
"	17	"	1468 B. H. Belland, Yamaska, Ouest.	$\frac{3}{4}$ "	30	.....	Lacelle & Gendreau Montreal.
"	20	"	1469 M. Proux, St. Aime.	$\frac{3}{4}$ "	30	Unknown	Unknown.
"	24	"	1470 Ed. Bienvonn, Farnham.	$\frac{3}{4}$ "	30	"	"
"	25	"	1471 J. A. Fortier, St. Sebastien.	$\frac{3}{4}$ "	20	.....	L. Chaput Fils & Cie., Montreal.
"	27	"	1472 A. Ledoux, St. Armand.	$\frac{3}{4}$ "	23	.....	Hudon & Orsali, Montreal.
Oct.	2	"	1473 A. N. Pierre, Megantic	$\frac{3}{4}$ "	23	J. J. Duffy & Co., Montreal.	Whitehead & Turner, Quebec.
"	8	"	1474 A. Bastien, Racine Ely	$\frac{3}{4}$ "	30	Unknown	Unknown.

DISTRICT OF MONTREAL—

Oct.	7	Ground Cinnamon	51021 Thos. J. Muir, 4500 St. St. Cath. St. Westmount.	$\frac{3}{4}$ lbs	30	.....	.....
"	8	"	51022 R. Bernard, 91 Lagouchitiere St., Montreal	$\frac{3}{4}$ "	30	J. V. Boudrias Ltd., Montreal.	.....
"	8	"	51023 Theo. Rochon, 210 City Hall Ave., Montreal.	$\frac{3}{4}$ "	30	Unknown	.....
"	11	"	51024 Lewis Reese, 343 Church Ave., Verdum, P.Q.	$\frac{3}{4}$ "	30	.....	.....
"	11	"	51025 Jos. Bonenfant, 428 Church Ave., Montreal.	$\frac{3}{4}$ "	27	.....	.....
"	16	"	51026 Annex Prov. Co., 1750 Hutchison St., Montreal.	$\frac{3}{4}$ "	30	.....	.....
"	17	"	51027 Geo. Dixon, Huntingdon, P. Q.	$\frac{3}{4}$ "	27	.....	.....
"	18	"	51028 F. J. Paquette, 385 Bleury St., Montreal.	$\frac{3}{4}$ "	30	.....	.....
"	19	"	51029 E. Paquette, 39 Mount Royal Ave., East, Montreal.	$\frac{3}{4}$ "	30
"	19	"	51030 J. A. Courtenauche, 24 Rachel St., East, Montreal.	$\frac{3}{4}$ "	30

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GROUND CINNAMON

Inspector's Report, It is not an expression of opinion.	Results of Analysis.			Remarks and Opinion of the Chief Analyst.
	Total Ash	Ash Insoluble in H ₂ O.	Microscopical Examination	
J. C. ROULEAU, INSPECTOR				
	5.53	2.05	No foreign tissues	1465 Apparently genuine
	3.72	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 test
	3.98	0.82		1474 Apparently genuine
J. J. COSTIGAN, INSPECTOR				
	6.17	1.14	Contains a considerable amount of turmeric.	51021 Doubtful
	4.98	1.56	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.	Mrs.
Sept.	4	"	50263 Geo. Agar, Ottawa	$\frac{3}{4}$ "	30	"	H. N. Bat & 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.	Mrs.
"	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 & McCar- thy, 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. Rouly, Peter- boro.	$\frac{3}{4}$ "	30	"	White Swan Co., Toronto.
"	11	"	50792 J. Hill, Peterboro.	$\frac{3}{4}$ "	30	"	Gorman Eckert, London.

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 GROUND CINNAMON.

Results of Analysis.

Inspector's Report. (Is not an expression of opinion.)	Total Ash.	Ash Insoluble in H ₂ O.	Microscopical Examination	No. of Sample.	Remarks and Opinion of the Chief Analyst.
...	3.82	1.14	No foreign tissues.	50262	Apparently genuine.
...	4.30	1.78	"	50263	"
...	4.72	1.96	A large amount of foreign starch and tissues. (Poa starch.)	50264	Adulterated.
...	3.40	0.68	Contains a large admixture of wheat and maize starch. (Co- conut shells, etc.)	50265	"
...	3.04	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	"
...	5.09	1.92	A few grains of ginger starch present.	50270	"
...	3.43	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	0.43	A small amount of foreign tissues including Coconut shells.	50765	Doubtful.
...	3.33	0.60	No foreign tissues.	50766	Apparently genuine.
...	5.05	1.34	"	50768	"
...	1.04	1.28	"	50769	"
...	3.52	0.82	"	50770	"
...	3.43	0.80	"	50792	"

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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 TORONTO—

1912.							
Sept.	13	Ground Cinnamon	51451	Fred Finn, 126 Denison Ave., Toronto.	$\frac{3}{4}$ lb..	27	Pure Gold Mfg. Co., Ltd., Toronto.
"	13	"	51452	The Loblaw Store, 406 Queen st. west, Toronto.	$\frac{3}{4}$ "	30	Medland Bros., Toronto.
"	16	"	51453	A. Bell, 1906 Queen st. east, Toronto.	$\frac{3}{4}$ "	25	The J. M. Lowes Co., Ltd., Toronto.
"	17	"	51454	Good Bros., 1004 Bloor st. west, Toronto.	$\frac{3}{4}$ "	30	Dalton Bros., Toronto.
"	20	"	51455	W. L. Bosworth, Newmarket.	$\frac{3}{4}$ "	30	Unknown.....
Oct.	2	"	51456	J. A. Eton, 155 King William st., Hamilton	$\frac{3}{4}$ "	30	Balfour, Smye & Co., Hamilton.
"	2	"	51457	Chas. Smith, 661 Barton st. east, Hamilton	$\frac{3}{4}$ "	20	W. H. Gillard & Co., Hamilton.
"	2	"	51458	J. S. Nicholson, 244 Locke st. south, Hamilton.	$\frac{3}{4}$ "	19	Young & Winfield, Hamilton.
"	2	"	51459	Cowalls Grocery (Branch), Queen & Humber sts., Hamilton.	$\frac{3}{4}$ "	30	Supplied from Main Store, 115 John st. south, Hamilton.
"	3	"	51460	W. R. Budge, 25 York st., Hamilton.	$\frac{3}{4}$ "	30	Todhunter, Mitchell Co., Tor-

DISTRICT OF WINDSOR—

Oct.	2	Ground Cinnamon.	48150	C. Maston, Petrolia...	$\frac{3}{4}$ lb..	30	Unknown.....	Unknown.....
"	4	"	48172	R. H. Davis, Strath...	$\frac{3}{4}$ "	30	.....	Elliott, Marr & Co., London.
"	7	"	48173	G. A. Curtis, Simcoe...	$\frac{3}{4}$ "	60	McLaren's, Ltd., Hamilton.	.....
"	7	"	48175	R. Edmunds, Simcoe...	$\frac{3}{4}$ "	30	White Swan S. & C. Co., Toronto.	.....
"	7	"	48180	G. J. Imeson, Simcoe...	$\frac{3}{4}$ "	30	I. & L. Spice & Coffee Co., London.	.....
"	7	"	48187	W. B. Hogarth & Son, Tillsonburg.	$\frac{3}{4}$ "	25	Unknown.....	Unknown.....
"	8	"	48189	Inrie & Stewardson...	$\frac{3}{4}$ "	30	Masuret & Co., London.
"	8	"	48191	Harold M. Scott & Co., Tillsonburg.	$\frac{3}{4}$ "	30	Geo. Watt & Son, Brantford.

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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	"
	1.10	0.87	"	51457	"
	3.60	0.60	"	51458	"
	4.52	1.12	"	51459	"
	3.66	0.66	"	51460	"

JNO. TALBOT, INSPECTOR.

	p. c.	p. c.			
	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.	$\frac{3}{4}$ lb.	30	Unknown	Unknown
" 17	"	48712	Conley & Yost, Winnipeg.	$\frac{3}{4}$ "	30	The Dyson Co., Winnipeg.	Mfrs.
" 19	"	48713	M. Shnier, Emerson...	3 tins.	20	The White Star Mfg. Co., Winnipeg.	
" 23	"	48714	P. Nelson, Winnipeg.	$\frac{3}{4}$ lb.	30		
" 23	"	48715	W. H. Morgan, Winnipeg.	$\frac{3}{4}$ "	30		The Codville Co., Winnipeg.
" 23	"	48716	West Mercantile Co., Winnipeg.	$\frac{3}{4}$ "	30		
" 24	"	48717	P. J. Foley & Co., Stonewall.	$\frac{3}{4}$ "	30		The Jobin Marrin Co., Winnipeg.
" 25	"	48718	C. Finkleman, Selkirk	$\frac{3}{4}$ "	25		
" 25	"	48719	W. Robinson & Co., Ltd., Selkirk.	$\frac{3}{4}$ "	30		
" 25	"	48720	W. Epstein, Selkirk.	$\frac{3}{4}$ "	30		

DISTRICT OF NELSON--

Sept. 3	Ground Cinnamon.	49685	M. Scally, Nelson, B.C.	3 tins.	40	W. Braid & Co., Vancouver.	
" 3	"	49692	Bell Trading Co., Nelson, B.C.	$\frac{3}{4}$ 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.	$\frac{3}{4}$ lb.	50	W. Braid & Co., Vancouver.	
" 6	"	49715	Merritt Ind. Co. of Socy., Merritt, B.C.	3 tins.	30	W. H. Malkin & Co., Vancouver.	
" 9	"	49721	L. C. Masson, Revelstoke, B.C.	$\frac{3}{4}$ lb.	30	Kelly Douglas & Co., Vancouver.	
" 9	"	49732	B. B. Camozzi, Revelstoke, B.C.	3 tins.	40	Wilson Bros., Victoria, B.C.	
" 9	"	49735	D. Gallicano, Revelstoke, B.C.	$\frac{3}{4}$ lb.	30	W. H. Malkin & Co., Vancouver.	
" 23	"	49735	H. G. Parson, Ltd., Golden, B.C.	3 tins.	45	Kelly Douglas & Co., Vancouver.	
" 23	"	49762	C. R. Lumber Co., Golden, B.C.	$\frac{3}{4}$ lb.	45	Kelly Douglas & Co., Vancouver.	

DISTRICT OF VANCOUVER--

Sept. 21	Ground Cinnamon	38429	Red Star Grocery, 2,565 Main St., Vancouver, B.C.	$\frac{3}{4}$ lb.	35	Empress Mfg. Co., Vancouver.	
" 21	"	38430	Efford Bros., 244 Broadway E., Vancouver, B.C.	$\frac{3}{4}$ "	30	Unknown	
" 21	"	38431	Moore's Grocery, 2425 Main St., Vancouver, B.C.	$\frac{3}{4}$ "	30	"	

SESSIONAL PAPER No. 14
 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.					
.....	1.23	0.40	No foreign tissues.	48711	Apparently genuine.
.....	3.01	0.26	"	48712	"
.....	2.34	0.27	"	48713	"
.....	3.28	0.85	"	48714	"
.....	3.67	1.01	"	48715	"
.....	3.26	0.68	"	48716	"
.....	4.20	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	"	49692	"
.....	2.60	0.12	"	49704	"
.....			"	49709	Sample lost.
.....	2.97	0.40	No foreign tissues.	49715	Apparently genuine.
.....	2.60	0.69	"	49721	"
.....	2.82	0.25	"	49732	"
.....	3.76	1.06	Some outer bark tissues.	49735	"
"Naboh".....	2.60	0.07	No foreign tissues.	49755	"
.....	2.81	0.10	"	49762	"
J. E. POWER, INSPECTOR.					
.....	3.44	0.04	No foreign tissues.	38429	Apparently genuine.
.....	3.26	0.24	"	38436	"
.....	2.65	0.07	"	38431	"

* Sample destroyed in transit.

4 GEORGE V., A. 1914

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 VANCOUVER—

1912.							
Sept. 21	Ground Cinnamon	38432	Kelly's Grocery, 2333 Main St., Vancouver, B.C.	$\frac{3}{4}$ lb.	30	Kelly Douglas & Co., Vancouver.	
" 21	"	38433	F. Filion, Carrol St., Vancouver, B.C.	$\frac{3}{4}$ "	30	Empress M'fg. Co., Vancouver.	
" 23	"	38434	F. Ayling, Cedar Cottage, Vancouver, B.C.	$\frac{3}{4}$ "	30	" "	
" 23	"	38435	Lyon's Grocery, Commercial Drive, Vancouver, B.C.	3 tins.	45	Oriental Mills Co., Vancouver.	
" 23	"	38436	J. Main, Commercial Drive, Vancouver, B.C.	$\frac{3}{4}$ lb.	30		
" 23	"	38437	Clark's Grocery, Hastings St., E., Vancouver, B.C.	$\frac{3}{4}$ "	35	Kelly Douglas Co., Vancouver.	
" 23	"	38438	A. A. Bower, Main St., Vancouver, B.C.	$\frac{3}{4}$ "	30	Empress M'fg. Co., Vancouver.	

DISTRICT OF VICTORIA—

Sept. 10	Ground Cinnamon	49188	Windsor Grocery Co., 817 Gov't St., Victoria, B.C.	$\frac{3}{4}$ lb.	40		Pioneer Coffee and Spice Mills, Victoria, B.C.
" 11	"	49189	The West End Grocery Co., Ltd., Victoria B.C.	3 tins.	30		R. P. Rithet & Co., Victoria, B.C.
" 11	"	49190	Copas & Young, 613 Fort St., Victoria, B.C.	3 "	25		W. Braid & Co., Vancouver.
" 16	"	49191	Acton Bros., 1317 Douglas St., Victoria, B.C.	3 "	30		Empress M'fg. 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.	$\frac{3}{4}$ 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., 861 Johnston 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.

SESSIONAL PAPER No. 14
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.		
<i>Concluded.</i>					
	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.	1.18	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	" "
" " "	4.96	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.	$\frac{3}{4}$ lb.	18	J. P. Mott & Co., Halifax, N.S.	Mfrs.
" 11	"	46852	Wm. Moore, Halifax, N.S.	$\frac{3}{4}$ "	21	"	"
" 13	"	46853	Jno. P. Mott & Co., Halifax, N.S.	$\frac{3}{4}$ "	Nil.	"	"
" 13	"	46854	Nat. Drug & Chem. Co., Halifax, N.S.	$\frac{3}{4}$ "	20	Vendors.	
" 16	"	46855	Morrison & Williams, Halifax, N.S.	$\frac{3}{4}$ "	18	W. H. Schwartz & Sons, Halifax.	Mfrs.
" 17	"	46856	Bauld Bros. Ltd., Halifax, N.S.	$\frac{3}{4}$ "	24	"	"
" 17	"	46857	Jas. Scott & Co., Halifax, N.S.	$\frac{3}{4}$ "	20	C. H. Cochrane, Ottawa.	"
" 17	"	46858	A. L. Doyle & Co., Halifax, N.S.	$\frac{3}{4}$ "	21	W. H. Schwartz & Sons, Halifax.	
" 18	"	46859	R. B. Seeton & Co., Halifax, N.S.	$\frac{3}{4}$ "	18	"	"
" 19	"	46860	W. H. Schwartz & Sons, Halifax, N.S.	$\frac{3}{4}$ "	15	Vendors.	

DISTRICT OF PRINCE EDWARD ISLAND—

Sept. 6	Ground Cassia...	46287	J. G. Jamieson, Charlottetown, P.E.I.	$\frac{3}{4}$ lb.	30	Lyman's Ltd., Montreal.	
" 7	"	46288	A. Gates & Co., Charlottetown, P.E.I.	$\frac{3}{4}$ "	30	Pure Gold Co., Toronto.	
" 9	"	46289	Coffin & Co., Charlottetown, P.E.I.	$\frac{3}{4}$ "	30	G. D. Barbour, St. John, N.B.	
" 12	"	46290	J. G. Passmore, Charlottetown, P.E.I.	$\frac{3}{4}$ "	30		J. A. Farquharson & Co., Charlottetown, P.E.I.
" 12	"	46291	L. A. Haszard, Charlottetown, P.E.I.	$\frac{3}{4}$ "	30	Schwartz & Sons, Halifax, N.S.	
" 14	"	46292	Reddin Bros., Charlottetown, P.E.I.	$\frac{3}{4}$ "	30	Lyman's Ltd., Montreal.	
" 21	"	46293	Apothecaries Hall Co., Charlottetown, P.E.I.	$\frac{3}{4}$ "	30	"	
Oct. 1	"	46294	Brace McKay & Co., Summerside, P.E.I.	$\frac{3}{4}$ "	30	Pure Gold Co., Toronto.	
" 3	"	46295	J. J. Hughes, Souris, P.E.I.	$\frac{3}{4}$ "	30	Nat. Drug & Chem. Co., Halifax.	
" 3	"	46296	Mathew & McLean, Souris, P.E.I.	$\frac{3}{4}$ "	24	Dearborn & Co., St. John, N.B.	

SESSIONAL PAPER No. 14

GROUND CASSIA.

Results of Analysis.

Inspector's Report. (Is not an expression of opinion).	Total Ash.	Ash Insoluble in H ₂ O.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
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R. J. WAUGH, INSPECTOR.

	p. c.	p. c.			
.....	2.67	0.50	No foreign tissues	46851	Apparently genuine
.....	2.81	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	" "
.....	3.43	1.00	" "	46859	" "
.....	3.74	1.09	" "	46860	" "

WM. A. WEEKS, INSPECTOR.

.....	4.05	0.92	No foreign tissues	46287	Apparently genuine
.....	3.30	0.88	" "	46288	" "
.....	3.18	0.73	" "	46289	" "
.....	3.94	1.04	" "	46290	" "
.....	3.34	0.80	" "	46291	" "
.....	4.94	1.45	" "	46292	" "
.....	3.86	0.73	" "	46293	" "
.....	4.56	1.55	" "	46294	" "
.....	4.59	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.	$\frac{3}{4}$ lb.	18	Vendors.....
"	4	"	50461	Puddington, Wetmore, Morrison, Ltd., St. John, N.B.	$\frac{3}{4}$ "	14	".....
"	4	"	50462	J. E. Barbour, & Co., Ltd., St. John, N.B.	$\frac{3}{4}$ "	21	".....
"	5	"	50463	H. W. Cole, Ltd., St. John, N.B.	$\frac{3}{4}$ "	18	".....
"	5	"	50464	McCready & Son, Ltd., St. John, N.B.	$\frac{3}{4}$ "	15	".....
"	5	"	50465	L. H. Thorne, St. John, N.B.	$\frac{3}{4}$ "	15	Vendor.....
"	25	"	50466	S. V. Skillen, St. Martins, N.B.	$\frac{3}{4}$ "	25	G. S. Barbour Co., Ltd., St. John, N.B.
Oct.	7	"	50467	Geo. T. Baird Co., Ltd., Perth, N.B.	$\frac{3}{4}$ "	24	Dearborn & Co., St. John, N.B.
"	16	"	58468	D. A. McBeath, Moncton, N.B.	$\frac{3}{4}$ "	30	F. P. Reid & Co., Montcton.
"	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.	$\frac{3}{4}$ lb.	30	Lemesurier & Son, Quebec.	J. B. Renaud & Cie.
"	6	"	37232	G. Gingras, 268 Rue de Roie, Quebec.	$\frac{3}{4}$ "	30	McLaren's Hamilton.	M'rs.....
"	11	"	37233	Myrand & Pouliot, 70 Rue de la Couronne, Quebec.	$\frac{3}{4}$ "	30	Unknown.....	Unknown.....
"	18	"	37234	Alfred Boily, 38 Cote D'Abraham, Quebec.	$\frac{3}{4}$ "	30	Dom. Flour Mills ...	Herron & Leblanc
"	18	"	37235	J. A. Tremblay, 139 Rue Richelieu, Quebec.	$\frac{3}{4}$ "	30	Integrity Mills, Toronto.	J. B. Reneaud....
"	19	"	37236	Jos. Boiteau, 37 Rue Sutherland, Quebec.	$\frac{3}{4}$ "	30	Unknown.....	N. Turcot et fils..
"	19	"	37237	Abel Turcot, 272 Rue St. Jean, Quebec.	$\frac{3}{4}$ "	30	".....	Turcot et Frere...
"	23	"	37238	J. E. Gregoire, 128 Rue du Pont, Quebec.	$\frac{3}{4}$ "	30	Nat. Coffee and Spice Co., Montreal.	M'rs.....
"	23	"	37239	M. W. Colman, 98 Rue du Pont, Quebec.	$\frac{3}{4}$ "	45	Unknown.....	S. Harnig, Montreal.
"	23	"	37240	L. F. Martel, 64 Rue du Pont, Quebec.	$\frac{3}{4}$ "	30	Litster Pure Food Co., Toronto.	M'rs.....

SESSIONAL PAPER No. 14

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. FERGUSON, INSPECTOR.

	p. c.	p. c.			
.....	3.60	1.00	Some dark coloured tissues;	50460	Apparently genuine.
.....	7.56	3.62	bark. No foreign tissues.	50461	Total and insoluble ash high.
.....	5.01	1.30	" " " "	50462	Apparently high.
.....	4.56	0.87	" " " "	50463	" "
.....	3.52	0.13	" " " "	50464	" "
.....	2.56	0.20	" " " " Large propor-	50465	" "
"Acorn" Brand.	5.80	1.92	tion of starch. No foreign tissues.	50466	" "
.....	3.83	0.32	" " " "	50467	" "
"Pyramid" Brand.	7.20	3.02	" " " "	50468	Total and insoluble ash high.
"Honeysuckle" Brand	10.05	5.75	" " " "	50469	" "

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

.....	2.23	0.09	No foreign tissues. Large proportion of starch. (Sample very coarsely ground.)	37231	Apparently genuine.
.....	3.60	0.55	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 foreign, woody and bark tissue.	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. Dalley Co., Hamilton.	.....
" 2	" ..		1481 J. O. McDonald, Magog.	3 tins.	30	White Swan S. & C. Co., Toronto.	.....
" 3	" ..		1482 Lovell Bros., Coaticook.	$\frac{3}{4}$ " ..	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.	.....
" 11	" ..		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. Sennat, 141 Ville-neuve St. West, Montreal.	$\frac{3}{4}$ " ..	30	.....	.....
" 16	" ..	51014	Z. Lapointe, 54 Ville-neuve St. W., Montreal.	$\frac{3}{4}$ " ..	30	.....	.....
" 17	" ..	51015	John Small, 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.	.....

SESSIONAL PAPER No. 14

GROUND CASSIA.

Results of Analysis.

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

	p. c.	p. c.		
.....	1.36	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 portion of starch.	1478 " "
.....	3.60	1.24	No foreign tissues.....	1479 " "
.....	5.36	1.46	" ".....	1480 " "
.....	4.58	1.91	" ".....	1481 " "
.....	4.49	0.55	" ".....	1482 " "
.....	3.32	0.46	" ".....	1483 " "
.....	6.34	3.00	Some dark colored tissues of outer bark.	1484 Total and insoluble ash high.
.....	3.84	0.40	Contains small amount of foreign starch and fibres, apparently pea starch.	1485 Doubtful.

J. J. COSTIGAN, INSPECTOR.

.....	6.45	0.51	Furmeric and other foreign tissues present.	5101 Total ash high. Doubtful
"Imperial" Brand.	9.48	3.00	No foreign tissues. (Looks dusty.)	5102 Total and insoluble ash high.
.....	8.58	4.16	No foreign tissues.....	5103 " ".....
.....	7.68	3.64	" ".....	5104 " ".....
.....	5.27	1.69	" ".....	5105 Apparently genuine.
"White Swan" Brand.	3.42	0.86	" ".....	5106 " ".....
.....	4.87	0.17	This sample is apparently cloves.	5107 Cloves—by mistake.
.....	2.82	0.81	Maize starch present and some foreign tissues.	5108 Adulterated.
.....	8.63	4.58	No foreign tissues.....	5109 Total and insoluble ash high.
.....	9.39	4.70	" ".....	51020 " ".....

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.	$\frac{3}{4}$ lb.	30	The Hamilton Coffee & Spice Co Hamilton.	Manufacturers....
Sept. 4	"	50272	A. S. Moreland, Ottawa.	3 tins.	15	C. H. Cochrane & Co., Ottawa.	"
" 4	"	50273	H. A. McCagg, Ottawa.	3 "	30	Unknown.	F. J. Castle Co., Ottawa.
" 5	"	50274	Jules Gratton, Hull, P. Q.	$\frac{3}{4}$ lb.	30	C. H. Cochrane & Co., Ottawa.	Manufacturers....
" 7	"	50275	Jas. H. Bradley, Prescott.	$\frac{3}{4}$ "	30	J. M. Lowes & Co., Toronto.	"
" 7	"	50276	C. Whitney & Son, Prescott.	$\frac{3}{4}$ "	30	McLarens's, Ltd., Hamilton.	"
" 12	"	50277	Geo. H. Hall & Co., Ottawa.	$\frac{3}{4}$ "	30	C. H. Cochrane & Co., Ottawa.	"
" 18	"	50278	Wm. Cusick, Merrickville.	$\frac{3}{4}$ "	30	Unknown.	Unknown
" 18	"	50279	E. H. Tallman, Merrickville.	$\frac{3}{4}$ "	30	"	"
" 18	"	50280	Miss M. McGill, Merrickville.	$\frac{3}{4}$ "	30	"	"

DISTRICT OF KINGSTON—

Sept. 9	Ground Cassia.	50771	H. C. Hampton, Belleville.	$\frac{3}{4}$ lb.	30	.....	.....
" 10	"	50772	S. P. Harvey & Son, Cobourg.	$\frac{3}{4}$ "	30	.....	Todhunter & Mitchell.

DISTRICT OF TORONTO—

Sept. 13	Ground Cassia.	51461	Foster & Swift, Pope & Gerrard sts., Toronto	$\frac{3}{4}$ lb	30	.....	Unknown
" 13	"	51462	J. A. Jeffery, 1025 Gerrard st. east, Toronto	$\frac{3}{4}$ "	30	.....	.....
" 16	"	51463	Chas. Harlock, 1961 Queen st. east, Toronto.	$\frac{3}{4}$ "	25	.....	.....
" 16	"	51464	Heck Bros., 585 King st. west, Toronto.	$\frac{3}{4}$ "	27	.....	J. M. Lowes Co., Ltd, Toronto.
" 16	"	51465	J. A. Macdonald, King & Spencer sts., Toronto.	$\frac{3}{4}$ "	30	.....	Eby, Blain, Ltd., Toronto.
" 17	"	51466	A. M. Hough, 1666 Queen st. west, Toronto.	$\frac{3}{4}$ "	25	.....	Todhunter, Mitchell & Co., Toronto.
" 17	"	51467	H. Woods, 1614 Queen st. west, Toronto.	$\frac{3}{4}$ "	30	Litster Pure Food Co., Ltd., Toronto.
" 20	"	51468	W. C. Howard, Newmarket.	$\frac{3}{4}$ "	30	Dalton Bros., Toronto.

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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. 3 93	p. c. 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 98	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. DAGGER, 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.	$\frac{3}{4}$ lb.	23		Lumsden Co., Hamilton.
"	1	"	51470 H. C. Davis, Dundas.	$\frac{3}{4}$ "	30		Geo. E. Bristol & Co., Hamilton.

DISTRICT OF WINDSOR—

Oct.	2	Ground Cassia.	48148 R. Stirret Co., Petrolia.	$\frac{3}{4}$ "	30	Unknown	Unknown
"	2	"	48153 J. E. Anderson, Wyoming.	$\frac{3}{4}$ "	30	F. F. Dalley Co., Hamilton.	
"	3	"	48161 R. Wanless & Co., Sarnia.	$\frac{3}{4}$ "	30	Todhunter & Mitchell, Hamilton.	
"	7	"	48177 Oscar R. Hauselman, Simcoe.	$\frac{3}{4}$ "	30	White Swan S. & Co., Toronto.	
"	7	"	48181 L. F. Aiken, Simcoe.	$\frac{3}{4}$ "	45	McLarens Ltd., Hamilton.	
"	7	"	48183 G. O. Werrett, Simcoe.	$\frac{3}{4}$ "	45	"	"
"	8	"	48185 Ray G. Colburn, Tillsonburg.	$\frac{3}{4}$ "	30		Geo. Watt & Son, Brantford.
"	8	"	48192 R. M. Teall, Tillsonburg.	$\frac{3}{4}$ "	30		T. B. Escott Co., London.

DISTRICT OF MANITOBA—

Sept.	20	Ground Cassia.	48700 The Gold Standard Mfg. Co., Winnipeg.	$\frac{3}{4}$ lb.	Nil.	Vendors	
"	17	"	48721 J. E. Manning, Sargent Ave., Winnipeg.	$\frac{3}{4}$ "	30	McLarens, Ltd., Hamilton.	Unknown
"	17	"	48722 R. Seymour, Winnipeg.	$\frac{3}{4}$ "	30	Unknown	"
"	17	"	48723 MacKenzie & Reeve, Winnipeg.	$\frac{3}{4}$ "	30	Todhunter, Mitchell Co., Toronto.	"
"	17	"	48724 " " "	$\frac{3}{4}$ "	30	McLarens, Ltd., Hamilton.	
"	18	"	48725 B. Arnason, Sargent Ave., Winnipeg.	$\frac{3}{4}$ "	30	Campbell Bros. & Wilson, Winnipeg.	Mfrs
"	18	"	48726 C. Corneil, Langside St., Winnipeg.	$\frac{3}{4}$ "	30	Unknown	Unknown
"	18	"	48727 W. S. Simpson, Sargent Ave., Winnipeg.	$\frac{3}{4}$ "	30	Gold Standard Mfg. Co., Winnipeg.	Mfrs
"	20	"	48728 Campbell Bros. & Wilson, Winnipeg.	3 tms.	Nil.	Vendors	
"	20	"	48729 The Dyson Co., Winnipeg.	$\frac{3}{4}$ lb.	"	"	
"	20	"	48730 The White Star Mfg. Co., Winnipeg.	3 tms.	"	"	

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GROUND CASSIA.

Results of Analysis.

Inspector's Report (Is not an expression of Opinion).	Results of Analysis.		Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.			
<i>Concluded.</i>					
	p. c.	p. c.			
	4.27	0.51	No foreign tissues	5149	Apparently genuine.
	3.26	0.24	"	5150	"

J. N. 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	0.42	"	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, coconut 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	"

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.	2 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.	$\frac{3}{4}$ lb.	80	..... Dnnn & Co., Ham- ilton.
"	19	" ..	49199	Pioneer Coffee & Spice Mills, 641 Pembroke St., Victoria, B.C.	$\frac{3}{4}$ "	30	Vendors

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GROUND CASSIA.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.			Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H ₂ O.	Microscopical Examination.	

THOS. PARKER, INSPECTOR.

	p. c.	p. c.		
"Royal Shield"	1.28	1.37	No foreign tissues	19711 Apparently genuine.
"Royal Shield"	3.61	0.51	"	19726 " "
"Royal Shield"	3.05	0.55	"	19747 " "
"Tuxedo"	3.08	0.31	"	19754 " "
"Royal Shield"	2.81	0.45	"	19766 " "
" "	3.10	0.64	"	19770 " "
" "	2.96	0.61	"	19784 " "

J. F. POWER, INSPECTOR.

Labelled "Cinnamon" "Saigon Cassia" Sold as Cassia.	3.84	0.19	No foreign tissues	38499 Apparently genuine.
Labelled Cinnamon, Sold as Cassia. De- clared to be no differ- ence between the two spices.	2.94	0.14	" "	38410 " "

D. O'SULLIVAN, INSPECTOR

"Royal Shield"	3.24	0.56	No foreign tissues	19198 Apparently genuine.
"Royal Shield"	3.29	0.87	" "	19199 " "

APPENDIX P.

BULLETIN No. 252—GROUND CLOVES—A STUDY.

OTTAWA, March 14, 1913.

WM. HIMSWORDH, Esq.,
Acting Deputy Minister, Inland Revenue.

SIR,—I have the honour to present you a report upon 141 samples of Ground Cloves. The samples were purchased by our Inspectors on the open market, throughout Canada, chiefly of retail grocers who are the usual purveyors of the article.

Cloves are found in the retail trade both in the unground and in the ground state. The form of this spice is so distinctive that, when sold in the unground condition it admits of no sophistication, except that it may have had its essential oil more or less removed by an extraction process. The demand for this oil (*Eugenol*) as a source of artificial vanillin is very considerable, and doubtless accounts for the large amount of exhausted cloves on the market.

We have made two extensive inspections of cloves in these laboratories. The first is reported in Bulletin 73 (October, 1900). This is chiefly a study of whole cloves, and was undertaken in consequence of complaints received from a reputable English house, concerning the importation of exhausted cloves into Canada. Nineteen samples of whole cloves and twenty-two of ground cloves were submitted to analysis; and the results were such as to demonstrate the need of defining limits, particularly as regards the content of volatile oil, for the legally genuine article.

The following conclusion was reached as a result of the work reported in Bulletin 73:—

‘No sample of Cloves claiming to be of good quality, should yield less than 14 per cent of volatile oil when assayed by the methods which are herein described. If total volatile matter is determined by treatment with petroleum ether, before drying at 98° C., the minimum volatile matter found should be at least 16 per cent by weight.’

The Committee upon Food Standards of the United States (Circ. 19, Department of Agriculture, Washington, June, 1906) recommends the following standards for Cloves:—

‘The dried flower buds of *Caryophyllus Aromaticus*, which contain not more than 5 per cent of clove stems; not less than 10 per cent Volatile Ether Extract; not less than 12 per cent quercitannic acid; not more than 8 per cent total ash; not more than 0.5 per cent ash insoluble in hydrochloric acid; not more than 10 per cent crude fibre.’

The volatile Ether Extract mentioned in this definition is not strictly identical with volatile oil, for the reason that it is determined on the cloves after drying by a method which involves a considerable, and an unknown loss of volatile oil. The limit of 10 per cent for volatile Ether Extract named in the United States definition is certainly too low to apply to volatile oil.

In July and August of 1907, a collection of 145 samples of ground Cloves was made and is reported in Bulletin 173. It was found possible to classify only 52 per cent of this collection as undoubtedly genuine. On the other hand, the absence of legally established limits made it impossible to declare adulteration except in cases where foreign matters were present.

Although the work reported in Bulletins 73 and 173 furnishes material for a tentative scheme of assaying cloves, it was felt that some points needed further elucidation, and the present report is the result. The following conclusions seem to be justified as a study of the whole:—

1. The total ash of cloves, free from stems should not exceed 6 per cent.
2. Presence of stems considerably increases the Ash.
3. Ash insoluble in hydrochloric acid is very low in clove buds, not exceeding two or three-tenths of one per cent.
4. Addition of stems notably increases the acid-insoluble Ash.
5. The volatile oil of cloves is the most important character, and is at the same time the component which gives the spice its value as a condiment. Determination of volatile oil is complicated by the fact that any moisture (normally 6-7 p.c.) comes off with the oil; and attempts to dry the clove, necessarily result in loss of volatile oil.
6. The best way of drying cloves would appear to be the use of sulphuric acid in vacuo. The point at which the oil comes off in notable amount being indicated by discolouration of the acid.
7. The volatile oil of cloves should not be less than 14 per cent by weight of the cloves, and may reach 19 per cent.
8. The total volatile matter of cloves, consisting of water and volatile oil should not be less than 16 per cent, and may reach 25 per cent of the weight of the cloves.
9. The fixed oil of cloves, determined by extraction on the properly prepared sample should be about 10 per cent of the weight of the cloves, when estimated by loss. This component seems to be more variable than the others, and to be less affected by the commercial treatment of the clove for Eugenol.

On account of their high content in oil, manufacturers find it difficult (some say impossible) to grind cloves without addition of something to take up the excess of oil. For this purpose, Pimento (all-spice) seems the most in use; but clove-stems, and possibly certain starches, may be employed. The use of pimento, or other suitable matter, for such purpose does not constitute adulteration, provided that the article be sold as a compound or mixture. (R.S. 1906, Chap. 133, Sec. 24a).

Over one hundred samples of the present collection contain pimento, in amounts varying from a small percentage to apparently 30 or 40 per cent of the sample. This consideration with the fact that the cost of pimento is only about one-half the

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cost of the cloves, makes it evident that not only must the fact of admixture be declared, but a statement of the amount of each ingredient as well, in order that the public be properly informed as to the article supplied.

If we accept as normal such samples as contain not less than 14 per cent of volatile oil, 78 samples of this collection will be classed as normal. Among these, however, there are great differences in quality as may be seen below:—

14 to 15 p.c. volatile oil in.	27 samples.
16 to 17 “ “	19 “
18 to 19 “ “	22 “
20 or more p.c. “	10 “

It would therefore appear reasonable to require a minimum of at least 14 per cent volatile oil for ground cloves. Many samples herein marked ‘normal’ exhibit large admixture of pimento starch; and since pimento contains from 3 to 6 per cent of Eugenol, it might be possible for a mixture of cloves having 20 per cent oil with pimento having 5 per cent oil, to contain 10 per cent of pimento and still yield 14 per cent of Essential Oil on analysis.

The following scheme of standards for Ground Cloves is suggested as consistent with the knowledge we possess of the commercial article:—

1. *Cloves*.—The flower-buds of *Caryophyllus Aromaticus, L.*, containing not more than (5) per cent of Clove stems; dried but not otherwise treated.

2. *Ground Cloves*.—Cloves, reduced to powder by grinding, without addition of other matters; and possessing the following characters:—

	Per cent.
(a) Total ash, not exceeding.	8
(b) Sand, not exceeding.	0.5
(c) Moisture, not exceeding.	10
(d) Volatile Oil, not less than.	14
(e) Tannic Acid, not less than.	12
(f) Crude fibre, not more than.	10

3. *Ground Cloves, compound or mixture*.—Cloves reduced to powder by grinding, in admixture with not more than 50 per cent of a harmless substance or substances of a stated nature.

The work now recorded will form the basis of recommendations for standardization of this article with as little delay as possible.

I beg to recommend publication of this as Bulletin No. 252.

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.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	
DISTRICT OF NOVA SCOTIA—						
1912.						
Sept. . .	Ground Cloves.	46841	Wentzell's, Ltd., Halifax, N.S.	$\frac{3}{4}$ lb.	25	.....
" 13	"	46842	Jno. P. Mott & Co., Halifax, N.S.	$\frac{5}{4}$ "	nil.	.....
" 13	"	46843	Nat. Drug & Chem. Co., Halifax, N.S.	$\frac{3}{4}$ "	25	.....
" 16	"	46844	Morrison & Williams, Halifax, N.S.	$\frac{3}{4}$ "	22	.....
" 17	"	46845	Bauld Bros., Ltd., Halifax, N.S.	$\frac{2}{4}$ "	18	.....
" 17	"	46846	A. L. Doyle & Co., Halifax, N.S.	$\frac{3}{4}$ "	21	.....
" 17	"	46847	Jas. Scott & Co., Halifax, N.S.	$\frac{3}{4}$ "	30	.....
" 18	"	46848	R. B. Seeton & Co., Halifax, N.S.	$\frac{3}{4}$ "	24	.....
" 19	"	46849	W. H. Schwartz, & Sons, Halifax, N.S.	$\frac{3}{4}$ "	20	.....
Oct. 7	"	46850	Payzant & King, Halifax, N.S.	$\frac{3}{4}$ "	30	.....
DISTRICT OF PRINCE EDWARD ISLAND—						
Sept. 6	Ground Cloves.	46267	R. T. Maddigan & Co., Charlottetown, P.E.I.	$\frac{3}{4}$ lb.	30	.....
" 6	"	46268	J. G. Jamieson, Charlottetown, P.E.I.	$\frac{3}{4}$ "	48	.....
" 7	"	46269	A. Gates & Co., Charlottetown, P.E.I.	$\frac{3}{4}$ "	30	.....
" 9	"	46270	Coffin & Co., Charlottetown, P.E.I.	$\frac{3}{4}$ "	30	.....
" 10	"	46271	The 2 Mac's, Charlottetown, P.E.I.	$\frac{3}{4}$ "	30	.....
" 10	"	46272	The McKinnon Drug Co., Charlottetown, P.E.I.	$\frac{3}{4}$ "	40	.....
" 12	"	46273	W. W. Walker, Charlottetown, P.E.I.	$\frac{3}{4}$ "	30	.....
" 12	"	46274	J. G. Passmore, Charlottetown, P.E.I.	$\frac{3}{4}$ "	48	.....
" 11	"	46275	Reddin Bros., Charlottetown, P.E.I.	$\frac{3}{4}$ "	30
" 17	"	46276	George Forbes, Vernon River Bridge.	$\frac{3}{4}$ "	24

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GROUND CLOVES.

Results of Analysis.

Ash.		Volatile matter at 100°C.			Fixed oil.	Total oil.	Tannin.	Crude Fibre.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Total.	Acid Insoluble.	Moisture.	Oil.	Total.							
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
6.35	0.30	5.90	17.75	23.65	3.80	21.55	.....	.....	A few stems	46841	Normal.
5.35	0.20	5.45	16.75	22.20	3.75	20.50	.....	.....	"	46842	"
5.80	0.15	5.85	16.95	22.80	3.85	20.80	.....	.....	A few stems and large amount of starch (Pimento).	46843	"
5.35	0.15	3.90	13.50	17.40	3.95	17.45	.....	.....	A few stems and starch (Pimento)	46844	Low in essential oil.
5.65	0.20	5.50	14.35	19.85	4.40	18.75	.....	.....	Stems and a little starch (Pimento)	46845	Normal.
5.90	0.20	4.90	13.95	18.75	4.20	18.15	.....	.....	Numerous stems.	46846	"
5.90	0.20	4.45	15.90	20.35	4.50	20.40	.....	.....	A few stems	46847	"
6.00	0.10	4.05	16.20	20.25	4.35	20.55	.....	.....	A few stems and a little starch (Pimento).	46848	"
5.60	0.20	4.25	17.95	22.20	4.65	22.60	.....	.....	Stems and starch (Pimento).	46849	"
6.00	0.15	4.05	17.75	21.80	4.45	22.20	.....	.....	Numerous stems and large amt. of starch (Pimento)	46850	"
WM. A. WEEKS, INSPECTOR.											
5.90	0.20	6.55	14.80	21.35	2.85	17.65	.....	.....	A few stems	46267	Normal.
5.60	0.20	6.05	18.10	24.15	3.25	21.35	.....	.....	"	46268	"
5.50	0.10	6.70	17.40	24.10	3.30	20.70	.....	.....	Starch (Pimento)	46269	"
6.00	0.25	6.75	15.95	22.70	3.20	19.15	.....	.....	Numerous stems and starch (Pimento).	46270	"
5.80	0.20	6.45	15.80	22.25	3.80	19.60	.....	.....	A few stems	46271	"
5.55	0.15	6.85	13.35	20.20	3.55	16.90	.....	.....	A few stems and a little starch (Pimento).	46272	Low in essential oil.
5.25	0.15	7.20	12.20	19.40	3.60	15.80	.....	.....	Stems and starch (Pimento).	46273	"
6.30	0.50	7.20	14.40	21.60	2.85	17.25	.....	.....	A few stems, traces of starch (Pimento).	46274	Normal.
4.10	0.10	4.45	8.60	13.05	3.15	11.75	10.27	11.5	Large amt. of starch (Pimento).	46275	Very low in essential oil.
5.90	0.25	6.50	15.50	22.00	3.15	18.65	.....	.....	A few stems	46276	Normal.

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

DISTRICT OF BRUNSWICK—

1912.							
Sept.	4	Ground Cloves.....	50140	Dearborn & Co., St. John, N.B.	$\frac{3}{4}$ lb.	18	
"	4	"	50141	Puddington, Wetmore & Mor- rison, Ltd., St. John, N.B.	$\frac{3}{4}$ " "	21	
"	4	"	50442	G. E. Barbour Co., Ltd., St. John, N.B.	$\frac{3}{4}$ " "	27	
"	5	"	50443	H. W. Cole, Ltd., St. John, N.B.	$\frac{3}{4}$ " "	21	
"	5	"	50444	McCready & Son, Ltd., St. John, N.B.	$\frac{3}{4}$ " "	18	
Oct.	8	"	50445	James Burgess & Son, Grand Falls, N.B.	3 pkgs	30	
"	8	"	50446	Jas. F. McCluskey, Grand Falls, N.B.	3 " "	30	"Purity" Brand.....
"	15	"	50147	Mills, Eveliegh Co., Ltd., Sussex, N.B.	$\frac{3}{4}$ lb..	27	"Signet" Brand.....
"	16	"	50448	Mrs. P. White, Moncton, N.B.	3 pkgs	25	"Pyramid" Brand.....
"	19	"	50149	A. Normand Desbrisay, Bat- hurst, N.B.	$\frac{3}{4}$ lb..	30	

DISTRICT OF QUEBEC—

Sept.	3	Ground Cloves.....	37212	Eudore Delisle, 2 Ave Tache- reau, Quebec.	$\frac{3}{4}$ lb..	30	
"	4	"	37213	O. Lacroix, 19 Rue St. Joseph, Quebec.	$\frac{3}{4}$ " "	30	
"	5	"	37214	W. Cantin, 133 Rue du Pont, Quebec.	$\frac{3}{4}$ " "	30	
"	6	"	37215	G. Gingras, 268 Rue du Roi, Quebec.	$\frac{3}{4}$ " "	30	
"	9	"	37216	Cantin & frère, 271 Rue St. Joseph.	$\frac{3}{4}$ " "	30	
"	10	"	37217	C. S. Riverin, 50 Rue de la Couronne, Quebec.	$\frac{3}{4}$ " "	30	

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GROUND CLOVES.

Results of Analysis.

Ash.		Volatile matter at 100°C.			Fixed oil.	Total oil.	Tannin.	Crude Fibre.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Total.	Acid Insoluble.	Moisture.	Oil.	Total.							
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
6.20	0.19	2.95	11.95	14.90	5.15	16.80			A few stems and a large amt. of starch (Pimento).	50410	Low in essential oil.
5.70	0.20	6.90	14.65	20.65	4.25	18.90			Numerous stems and a little starch (Pimento).	50411	Normal.
5.90	0.25	4.65	17.20	21.85	4.25	21.45			A few stems.	50412	
5.80	0.20	5.70	14.50	20.70	4.90	19.40			A few stems and a little starch (Pimento).	50413	
6.65	0.20	2.85	12.25	15.10	3.50	15.75			A few stems and a little starch (Pimento).	50414	Low in essential oil.
6.50	0.20	3.20	11.00	14.20	4.45	15.45			Numerous stems and a large amt. of starch (Pimento).	50415	
5.85	0.30	5.15	16.15	21.30	4.40	20.55			A few stems and a large amt. of starch (Pimento).	50416	Normal.
5.70	0.20	5.65	14.90	19.95	4.70	19.60			A few stems.	50417	
6.25	0.20	3.80	9.10	12.90	4.60	13.70	15.11	11.5	Stems and starch (Pimento).	50418	Very low in essential oil.
6.05	0.15	4.00	10.30	14.30	4.85	15.25	18.13	11.5	Traces of starch (Pimento).	50419	

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

5.40	0.45	4.15	9.60	13.75	6.35	15.95	9.67	14.5	A few stems and starch (Pimento).	37212	Very low in essential oil.
5.80	0.20	2.70	13.05	15.75	5.55	18.60	15.11	9.8	Numerous stems and starch (Pimento).	37213	Low in essential oil.
3.60	0.40	4.35	6.90	11.25	3.45	10.35	4.23	13.6	Stems and a large amt. of starch (Pimento).	37214	Very low in essential oil.
5.75	0.50	4.40	7.85	12.25	5.10	12.95	8.46	9.0	Starch (Pimento).	37215	
3.70	0.20	3.30	7.30	10.60	5.60	12.90	5.44	17.7	Stems and a large amt. of starch (Pimento).	37216	
3.90	0.15	4.35	6.95	11.30	4.50	11.45	6.04	21.2	Stems and starch (Pimento).	37217	

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

DISTRICT OF QUEBEC—

1912.						
Sept. 11	Ground Cloves . . .	37218	Myrand & Pouliot, 70 Rue de la Couronne, Quebec.	$\frac{3}{4}$ lb..	30	.....
" 12	"	37219	Arthur Drolet, 714 Rue St. Valier, Quebec.	$\frac{3}{4}$ " . .	30	.....
" 13	"	37220	A. Rinfret, 414 Rue St. Valier, Quebec	$\frac{3}{4}$ " . .	30	.....
" 16	"	37251	Hamel & Bedard, 728 Rue St. Valer, Quebec.	$\frac{3}{4}$ " . .	30	.....

DISTRICT OF ST. HYACINTHE—

Sept. 16	Ground Cloves	1454	Paul Rajotte, St. G. de Grant-ham.	$\frac{3}{4}$ lb..	30	.....
" 17	"	1455	Laperrière & fils, Pierreville. . .	$\frac{3}{4}$ " . .	19	.....
" 17	"	1456	J. E. Turbide, Yamaska East. . .	$\frac{3}{4}$ " . .	15	.....
" 18	"	1457	A. Casabon, Sorel.	$\frac{3}{4}$ " . .	27	.....
" 20	"	1458	J. B. Carrean, St. Aime	$\frac{3}{4}$ " . .	15	.....
" 25	"	1459	L. Gosselin, Henryville.	$\frac{3}{4}$ " . .	28	.....
" 26	"	1460	W. A. Reynolds, Frelighsburg. . .	$\frac{3}{4}$ " . .	22	.....
" 27	"	1461	M. Lemire, Iberville.	$\frac{3}{4}$ " . .	20	.....
Oct. 1	"	1462	W. Murray & Co., Sherbrooke. . .	$\frac{3}{4}$ " . .	30	.....
" 8	"	1463	L. Minard, Eastman	$\frac{3}{4}$ " . .	25	.....

DISTRICT OF MONTREAL—

Oct. 1	Ground Cloves	51001	J. H. Labraude, 141 St. Viateur st., Montreal.	1 lb..	30
" 1	"	51002	H. Ward, 108 St. Viateur st., Montreal.	1 " . .	30

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GROUND CLOVES.

Results of Analysis.

Ash.		Volatile matter at 100°C.								Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Total.	Acid Insoluble.	Moisture.	Oil.	Total.	Fixed oil.	Total oil.	Tannin.	Crude Fibre.				
<i>Concluded.</i>												
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
5.80	0.50	1.50	15.35	19.85	4.35	19.70	18.13	10.0	Stems and traces of starch (Pimento).	37218	Normal.	
3.80	0.20	2.80	9.25	12.05	6.90	16.15	4.83	15.5	Stems and starch (Pimento).	37219	Very low in essential oil.	
5.45	0.10	3.05	18.10	21.15	4.45	22.55	18.73	9.2	A few stems ..	37220	Normal.	
5.15	0.25	4.75	19.25	24.00	4.30	23.55				37251		
J. C. ROULEAU, INSPECTOR.												
1.30	0.20	3.95	8.00	11.95	4.85	12.85	12.09	9.6	Stems and a large amount of starch (Pimento).	1454	Very low in essential oil.	
4.55	0.20	3.60	11.60	15.20	5.55	17.15			A few stems and starch (Pimento).	1455	Low in essential oil.	
5.80	0.50	4.65	9.30	13.95	5.85	15.15	11.48	9.7	A few stems and a large amount of starch (Pimento).	1456	Very low in essential oil.	
5.90	0.40	4.50	9.30	13.80	4.50	13.80	14.50	19.5	Stems and starch (Pimento).	1457		
7.95	0.50	3.05	7.65	10.70	5.00	12.65	10.88	18.2	A few stems and a large amount of starch (Pimento).	1458		
4.05	0.10	4.05	7.75	11.80	6.85	14.60	7.25	18.5		1459		
5.80	0.30	4.95	14.70	19.65	4.35	19.05				1460	Normal.	
5.50	0.35	5.15	18.95	24.10	4.70	23.05			Numerous stems	1461		
6.10	0.45	3.00	12.55	15.55	5.10	17.05			A few stems and a large amount of starch (Pimento).	1462	Low in essential oil.	
6.60	0.35	4.25	13.55	17.80	4.75	18.30			A few stems and a little starch (Pimento).	1463		
J. J. COSTIGAN, INSPECTOR.												
3.65	0.35	4.60	8.75	13.35	5.35	14.10	9.06	10.6	Stems and a little starch (Pimento).	51001	Very low in essential oil.	
6.20	0.50	6.35	15.35	21.70	3.00	18.35			Numerous stems.	51002	Normal.	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	
DISTRICT OF MONTREAL—						
1912.						
Oct. 1	Ground Cloves.....	51003	E. Tessier, 70 Laurier ave. W., Montreal.	1 lb.	30	.....
" 4	"	51004	T. J. Collins, St. Agathe de Monts.	$\frac{3}{4}$ lb.	30	.....
" 7	"	51005	W. Biltcliffe, 350 Victoria ave., Westmount.	$\frac{3}{4}$ "	30	.....
" 8	"	51006	R. Bernard, 91 Lagachetiere st. E., Montreal.	$\frac{3}{4}$ "	30	.....
" 8	"	51007	S. Dionne, 140 Dorchester E., Montreal.	$\frac{3}{4}$ "	30	.....
" 10	"	51008	E. Dufour, Joliette, P.Q.	$\frac{3}{4}$ "	30	.....
" 16	"	51009	Z. Lapointe, 54 Villeneuve st., Montreal.	$\frac{3}{4}$ "	30	.....
" 11	"	51010	Lewis Reese, 393 Church ave., Verdun, P.Q.	$\frac{3}{4}$ "	30	.....
DISTRICT OF OTTAWA—						
Aug. 30	Ground Cloves.....	50252	McCuaig, Cheney & Co., Vank- leek Hill.	$\frac{3}{4}$ lb.	30	Labelled pure ground cloves.
" 31	"	50253	A. Meighan & Bro., Perth, Ont.	3 pkts	30	Labelled pure ground cloves, A. Meighan & Bro., Perth, Ont.
Sept. 4	"	50254	A. S. Moreland, Ottawa.....	3 "	30	.....
" 4	"	50255	Geo. Agar, Ottawa.....	3 "	30	.....
" 4	"	50256	N. A. McCagg, Ottawa.....	3 "	30	.....
" 4	"	50257	Alex. Phillips, Ottawa.....	$\frac{3}{4}$ lb.	30	.....
" 5	"	50258	J. B. Bedard, Hull, P.Q.....	$\frac{3}{4}$ "	30	.....
" 6	"	50259	Jas. McDougall, Brockville ...	$\frac{3}{4}$ "	30	.....
" 7	"	50260	John Whitley, Prescott.	$\frac{3}{4}$ "	30
" 18	"	50261	E. H. Tallman, Merrickville...	$\frac{3}{4}$ "	30

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GROUND CLOVES.

Results of Analysis.										Remarks and Opinion of the Chief Analyst.	
Ash.		Volatile matter at 100° C.			Fixed oil.	Total oil.	Tannin.	Crude Fibre.	Microscopical Examination.		No. of Sample.
Total.	Acid Insoluble.	Moisture.	Oil.	Total.							
<i>Concluded</i>											
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
4.60	0.15	6.75	11.35	18.10	4.80	16.15			A few stems and starch (Pimento).	51003 Low in essential oil.	
4.50	0.10	7.15	10.65	17.80	4.05	14.70			Stems and starch (Pimento).	51004 "	
5.55	0.45	3.80	11.55	15.35	5.20	16.75			A few stems	51005 "	
4.90	0.20	3.75	8.50	12.25	3.70	12.20	10.88	12.0	A large amount of starch (Pi- mento).	51006 Very low in essen- tial oil.	
4.85	0.10	3.85	11.10	15.25	5.10	16.50			Stems and starch (Pimento).	51007 Low in essential oil.	
4.55	0.10	3.75	12.80	16.55	6.75	19.55				51008 "	
5.05	0.15	3.70	9.40	13.10	4.35	13.75	13.90	10.8	Stems and a large amount of starch (Pi- mento).	51009 Very low in essen- tial oil.	
5.00	0.20	4.10	12.25	16.35	6.20	18.45				51010 Low in essential oil.	
J. A. RICKEY, INSPECTOR.											
5.35	0.45	4.90	10.00	14.90	4.50	14.50			Stems and a large amt. of starch (Pimento).	50252 Low in essential oil.	
5.50	0.20	6.35	16.80	23.15	3.10	19.90			A few stems	50253 Normal.	
5.45	0.20	6.35	16.70	23.05	3.20	19.90			A few stems and starch (Pimen- to).	50254 "	
5.55	0.20	6.60	15.35	21.95	3.30	18.65			Stems and starch (Pimento).	50255 "	
5.75	0.40	6.85	16.75	23.60	3.25	20.00			"	50256 "	
5.45	0.60	6.50	11.50	18.00	2.90	14.40			"	50257 Low in essential oil; high in inso- luble ash.	
7.25	0.10	3.65	8.65	12.30	4.20	12.85			"	50258 Very low in essen- tial oil.	
6.70	0.25	2.90	12.50	15.40	3.40	15.90	16.92	10.8	Stems & a small amt. of starch (Pimento).	50259 Low in essential oil.	
6.15	0.15	6.65	11.65	18.30	3.15	14.80			A few stems and a small amt. of sarch (Pimen- to).	50260 "	
6.55	0.40	6.90	11.30	18.20	3.20	14.50			Numerous stems	50261 "	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	
DISTRICT OF KINGSTON—						
1912.						
Sept. 3	Ground Cloves.....	50751	J. Campbell, Kingston.....	$\frac{3}{4}$ lb..	30	
" 9	"	50752	H. C. Hampton, Belleville...	$\frac{3}{4}$..	30	
" 9	"	50753	S. R. Artis, Belleville.....	$\frac{3}{4}$ " ..	30	
" 9	"	50754	Wallbridge & Clark, Belleville.	$\frac{3}{4}$ " ..	30	
" 9	"	50755	C. Hilton, Belleville.....	$\frac{3}{4}$ " ..	30	
" 10	"	50756	The Thompson, Macdonald Co., Cobourg.	$\frac{3}{4}$ " ..	30	
" 10	"	50757	T. P. Harvey & Son, Cobourg..	$\frac{3}{4}$ " ..	30	
" 10	"	50758	W. D. Sephens, Port Hope....	$\frac{3}{4}$ " ..	35	
" 10	"	50759	F. Rosevear, Port Hope.....	$\frac{3}{4}$ " ..	30	
" 11	"	50760	J. Hill, Peterboro.....	$\frac{3}{4}$ " ..	30	
DISTRICT OF TORONTO—						
Sept. 13	Ground Cloves.....	51441	T. H. Coffin, Grange ave. and Denison st., Toronto.	$\frac{3}{4}$ lb..	30	Vendor said it was included in stock when purchased.
" 16	"	51442	Wm. Black, 1960 Queen st. east, Toronto.	$\frac{3}{4}$ " ..	27	
" 16	"	51443	Fred Hammer, 581 King st. west, Toronto.	$\frac{3}{4}$ " ..	30	
" 17	"	51444	C. Barrett, 964 Bloor st. west, Toronto.	$\frac{3}{4}$ " ..	25	
" 17	"	51445	T. W. Cole, 156 Dundas st., Toronto.	$\frac{3}{4}$ " ..	30	
" 20	"	51446	Towns & Nonis, Aurora.....	$\frac{3}{4}$ " ..	30	
Oct. 2	"	51447	O. W. Robbins, 164 Locke st. south, Hamilton.	$\frac{3}{4}$ " ..	30	
" 2	"	51448	John Forth, Queen & Charlton ave., Hamilton.	$\frac{3}{4}$ " ..	30	

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GROUND CLOVES.

Results of Analysis.

Ash.		Volatile matter at 100 C.			Fixed oil.	Total oil.	Tannin.	Crude Fibre.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Total.	Acid Insoluble.	Moisture.	Oil.	Total.							
JAS. HOGAN, INSPECTOR.											
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
5.95	0.30	3.85	18.40	22.25	4.00	22.40				50751	Normal.
4.45	0.20	6.00	4.50	19.50	0.10	4.60			Not cloves, All- spice.	50752	Is not cloves.
6.40	0.50	4.55	16.15	20.70	3.80	19.95			A few stems . . .	50753	Normal.
6.95	0.45	4.50	14.00	18.50	3.49	17.40			"	50754	"
7.40	0.35	3.10	14.40	17.50	4.65	19.05	15.11	9.6	"	50755	"
6.05	0.20	3.80	19.80	23.60	3.70	23.50			"	50756	"
5.30	0.15	3.50	21.10	24.60	4.40	25.50			A few stems and a little starch (Pimento).	50757	"
5.60	0.20	3.40	21.75	25.15	4.45	26.20			"	50758	"
5.80	0.25	4.40	15.30	19.70	4.60	19.30			A few stems and starch (Pim- ento).	50759	"
6.40	0.40	4.00	18.65	22.65	4.30	22.95			"	50760	"
H. J. DAGER, INSPECTOR.											
4.95	0.15	4.70	9.65	14.35	3.10	12.75	10.27	15.0	Numerous stems and a large amt. of starch (Pimento).	51441	Very low in essen- tial oil.
6.95	0.60	6.45	13.55	20.00	2.85	16.40			Stems.	51442	Low in essential oil; high insoluble ash
7.25	0.50	6.30	11.90	18.20	4.15	16.05			A small amt. of starch (Pimen- to).	51443	Low in essential oil.
6.40	0.30	6.65	12.80	19.45	2.70	15.50			Stems and a large amt. of starch (Pimento).	51444	"
6.65	0.45	4.25	8.65	12.90	2.80	11.45	12.69	15.8	"	51445	Very low in essen- tial oil.
6.75	0.20	6.75	12.15	18.90	2.70	14.85			Stems.	51446	Low in essential oil.
5.20	0.45	3.50	11.45	14.95	5.25	16.70			"	51447	"
5.85	0.25	5.85	16.60	22.45	4.80	21.40			Stems and traces of starch (Pim- ento).	51448	Normal.

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

DISTRICT OF TORONTO

1912								
Oct.	3	Ground Cloves.....	51449	J. J. Lynch, 185 Park st., Hamilton.	4/30	lb.	23	.....
"	3	"	51450	R. D. Saul, 124 James st. north, Hamilton.	4/30	"	23	.....

DISTRICT OF WINDSOR—

Oct.	2	Ground Cloves.....	48152	A. Duncan & Co., Wyoming..	4/30	lb.	30	.....
"	3	"	48162	R. Wanless & Co., Sarnia.	4/30	"	30	Todhunter's pure select cloves.
"	4	"	48171	R. H. Davis, Strathroy.....	4/30	"	60	.....
"	7	"	48174	G. A. Curtis, Simcoe.....	4/30	"	60	.....
"	7	"	48176	R. Edmunds, Simcoe.....	4/30	"	45	.....
"	7	"	48178	Oscar R. Hauselman, Simcoe..	4/30	"	38	.....
"	7	"	48179	G. J. Imeson, Simcoe.....	4/30	"	30	.....
"	7	"	48182	L. F. Aiken, Simcoe.....	4/30	"	45	.....
"	7	"	48184	G. O. Werrett, Simcoe.....	4/30	"	45	.....
"	8	"	48186	Ray P. Colburn, Tillsonburg..	4/30	"	30	.....
"	8	"	48188	Imrie & Stewardson, Tillson- burg.	1/2	"	30	.....

DISTRICT OF MANITOBA—

Sept.	17	Ground Cloves.....	48701	R. Seymour, Sargent ave., Winnipeg.	3/4	lb.	30
"	17	"	48702	MacKenzie & Reeve, Winni- peg.	3/4	"	30

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GROUND CLOVES.

Results of Analysis.

Total.	Ash.		Volatile matter at 100° C.				Fixed oil.	Total oil.	Tannin.	Crude Fibre.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Acid Insoluble.	Moisture.	Oil.	Total.									

Concluded.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
6.25	0.20	5.10	19.10	21.20	4.50	23.60				A few stems	5149	Normal.
5.80	0.50	5.00	18.80	23.80	5.30	24.10				A few stems and traces of starch (Pimento).	51450	"
5.35	0.10	4.75	16.85	21.60	4.25	21.10				Stems and a large amt. of starch (Pimento).	48152	Normal.
4.70	0.20	5.40	19.80	25.20	4.15	23.95				Trace of Mother of Cloves starch.	48162	"
6.10	0.15	4.50	14.50	18.80	3.60	17.90				A few stems and a little starch (Pimento).	48171	"
5.90	0.20	4.10	15.90	20.00	4.30	20.20				Numerous stems and a large amt. of starch (Pimento).	48174	"
6.95	0.40	4.65	11.55	16.20	4.25	15.80				Numerous stems	48176	Low in essential oil.
4.65	0.15	4.75	20.15	24.90	4.10	24.25				A few stems	48178	Normal.
4.65	0.10	3.85	17.75	21.60	4.10	22.15				A few stems and a large amt. of starch (Pimento).	48179	"
5.35	0.20	4.20	16.60	20.80	4.55	21.15				A few stems and a little starch (Pimento).	48182	"
5.60	0.30	3.70	18.50	22.20	4.20	22.70				"	48184	"
4.80	0.30	3.20	10.65	13.85	5.35	16.00				Stems and a large amt. of starch (Pimento).	48186	Low in essential oil.
4.90	0.10	4.10	15.65	19.75	5.80	21.45				A few stems and starch (Pimento).	48188	Normal.

A. C. LARIVIÈRE, INSPECTOR.

5.55	0.15	6.35	18.45	24.80	2.70	21.15				A few stems	48701	Normal.
6.65	0.40	3.65	13.45	17.10	3.40	16.85	21.15	9.7		"	48702	Low in essential oil.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	
DISTRICT OF MANITOBA—						
1912.						
Sept. 17	Ground Cloves	48703	Conley & Yost, Winnipeg	$\frac{3}{4}$ lb.	30	.....
" 19	"	48704	C. A. Whitman, Emerson	$\frac{3}{4}$ "	20	.....
" 20	"	48705	Campbell Bros. & Wilson, Win- nipeg.	3 tins.	nil	.....
" 20	"	48706	The Dyson Co., Winnipeg	$\frac{3}{4}$ "	"	.....
" 20	"	48707	White Star Mfg. Co., Winni- peg.	3 tins.	"	.....
" 20	"	48708	Gold Standard Mfg. Co., Win- nipeg.	$\frac{3}{4}$ lb.	"	.....
" 23	"	48709	P. Nelson, Winnipeg	3 tins.	30	.....
" 23	"	48710	W. H. Morgan, Winnipeg	$\frac{3}{4}$ lb.	30	.....
DISTRICT OF NELSON—						
Sept. 3	Ground Cloves	49688	Union Cash Grocery, Nelson, B.C.	3 tins.	40	.....
" 3	"	49691	Bell Trading Co., Nelson, B.C.	$\frac{3}{4}$ lb.	30	.....
" 6	"	49703	G. B. Armstrong, Merritt, B.C.	3 tins.	45	.....
" 6	"	49708	Merritt Merc. Co., Merritt, B.C.	$\frac{3}{4}$ lb.	30	.....
" 6	"	49714	Merritt Ind. & Co-op. Society, Merritt, B.C.	3 tins.	30	.....
" 9	"	49722	L. C. Masson, Revelstoke, B.C.	3 "	45	.....
" 9	"	49727	Bourne Bros., Revelstoke, B.C.	$\frac{3}{4}$ lb.	40	.....
" 23	"	49748	C. A. Warren, Golden, B.C.	3 tins.	40
" 23	"	49756	H. G. Parson, Ltd., Golden, B.C.	3 "	30
" 23	"	49761	C. R. Lumber Co., Golden, B.C.	3 "	45

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GROUND CLOVES.

Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
Ash.		Volatile matter at 100 C.			Fixed oil.	Total oil.	Tannin.	Crude Fibre.	Microscopical Examination.		
Total.	Acid Insoluble.	Moisture.	Oil.	Total.							
<i>Concluded.</i>											
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
7.70	0.80	3.85	10.70	14.55	6.10	16.80			A few stems and a small amount of starch (Pimento).	48703 Low in essential oil, high insoluble ash	
7.15	0.30	6.40	19.10	25.50	2.85	21.95			" "	48704 Normal.	
4.90	0.25	6.15	21.35	27.50	3.75	25.10	16.92	8.9	Stems	48705 "	
5.15	0.20	5.70	12.75	18.45	4.35	17.10			A few stems	48706 Low in essential oil.	
5.60	0.10	6.45	14.40	20.95	3.10	17.50			"	48707 Normal.	
5.60	0.10	5.10	20.15	25.25	3.35	23.50			"	48708 "	
7.45	0.60	3.50	13.55	17.05	6.15	19.70			A few stems and starch (Pimento)	48709 Low in essential oil, high insoluble ash	
5.75	0.10	6.00	14.05	20.05	3.45	17.50			Stems and traces of starch (Pimento).	48710 Normal.	
THEOS. PARKER, INSPECTOR.											
6.50	0.20	4.20	12.30	16.50	4.40	16.70			Stems	49688 Low in essential oil.	
4.80	0.10	4.30	18.60	22.90	4.85	23.45			A few stems and a little starch (Pimento).	49391 Normal.	
5.75	0.35	4.30	15.90	20.20	5.60	21.50			" "	49703 "	
.	.	.	.	.	.	.	.	.	.	49708 Sample lost.
4.75	0.20	4.55	21.50	26.05	5.45	26.95			Traces of starch (Pimento).	49714 Normal.	
5.30	0.30	5.45	19.25	25.80	5.10	24.35			A few stems and a little starch (Pimento).	49722 "	
3.25	0.10	4.65	10.50	15.10	4.25	14.75	6.65		Stems and a very large amount of starch (Pimento).	49727 Low in essential oil.	
5.30	0.30	4.85	19.10	23.95	6.20	25.30			A few stems	49748 Normal.	
5.25	0.25	5.30	20.20	25.50	3.85	24.05	16.92	8.3	A few stems and a little starch (Pimento).	49756 "	
6.70	0.40	4.45	12.65	17.10	4.10	16.75			Stems and a little starch (Pimento)	49751 Low in essential oil,	

Sample destroyed in transit.

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

DISTRICT OF VANCOUVER—

1912.						
Sept. 20	Ground Cloves...	38419	London Grocery Co., Granville St. Vancouver, B.C.	3 tins.	30	This Tin contains nothing but spice of the finest quality.
" 20	"	38420	Jardine & Dickinson, Kerrisdale, B.C.	3 "	25	Guaranteed absolutely pure.
" 20	"	38421	A. C. Bartig, 8th Ave. & Granville St., Vancouver, B.C.	$\frac{3}{4}$ lb...	30	.....
" 20	"	38422	Merilees Grocery, 2640 Main St., Vancouver, B.C.	3 tins.	25	.....
" 20	"	38423	Efford Bros., 244 Broadway E., Vancouver, B.C.	$\frac{3}{4}$ lb...	30	.....
" 21	"	38424	Kelly's Grocery, 2333 Main St., Vancouver, B.C.	$\frac{3}{4}$ "	30	.....
" 23	"	38425	F. Fillion, Carral St., Vancouver, B.C.	$\frac{3}{4}$ "	30	.....
" 23	"	38426	F. Ayling, Cedar Cottage, Vancouver, B.C.	$\frac{3}{4}$ "	30	.....
" 23	"	38427	Lyons Grocery, Commercial Drive Vancouver, B.C.	3 tins.	45	Guaranteed to be the finest quality and full strength.
" 23	"	38428	J. Main, Commercial Drive, Vancouver, B.C.	$\frac{3}{4}$ lb...	30	.....

DISTRICT OF VICTORIA—

Sept. 10	Ground Cloves...	49178	Windsor Grocery Co., 817 Douglas St., Victoria, B.C.	3 tins.	30	.....
" 11	"	49179	The West-End Grocery Co., Ltd., 1002 Government St., Victoria, B.C.	3 "	30	"Empress" Brand.
" 12	"	49180	Copas & Young, 631 Fort St., Victoria, B.C.	3 "	25	Anti-Combene Brand.

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GROUND CLOVES.

Results of Analysis.

Ash.		Volatile matter at 160°C.			Fixed oil.	Total oil.	Tannin.	Crude Fibre.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Total.	Acid Insoluble.	Moisture.	Oil.	Total.							
5.85	0.30	5.10	16.00	21.10	4.65	20.65			Stems and a little starch. (Pimento).	38419	Normal.
4.50	0.15	4.30	21.70	26.00	1.05	25.75			A few stems and starch. (Pimento).	38420	
5.05	0.20	5.45	12.25	17.70	1.75	17.00			A large amount of starch. (Pimento).	38421	Low in Essential oil.
4.90	0.20	4.95	21.35	26.30	4.00	25.35	18.73	8.0	A few stems and traces of starch. (Pimento)	38422	Normal.
5.20	0.20	3.65	12.85	16.50	5.05	17.90			Starch. (Pimento).	38423	Low in Essential oil.
5.65	0.25	4.15	13.20	17.35	4.80	18.00			A large amount of starch. (Pimento).	38424	
6.45	0.20	4.70	13.15	17.85	4.70	17.85			A few stems and a large amount of starch. (Pimento).	38425	
5.60	0.15	5.40	18.00	23.40	4.25	22.25			"	38426	Normal.
5.10	0.20	5.10	22.50	27.60	3.90	26.40			A few stems	38427	
5.90	0.10	5.25	15.50	20.75	4.40	19.90			A few stems and starch. (Pimento).	38428	

D. O'SULLIVAN, INSPECTOR.

5.05	0.20	6.10	11.65	20.75	4.60	19.25			A few stems and starch. (Pimento).	49178	Normal.
3.35	0.10	5.40	19.30	24.70	4.05	23.35			A few stems and a large amount of starch. (Pimento).	49179	"
7.00	0.60	6.60	16.75	23.35	3.80	20.55			Numerous stems and a little starch. (Pimento).	49180	Normal except as to insoluble ash.

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

DISTRICT OF VICTORIA—

1912.						
Sept. 16	Ground Cloves.....	49181	Acton Bros., 1217 Douglas St., Victoria, B.C.	3 tins.	30	"Empress" Brand.....
" 16	"	49182	H. & K. Grocery, Victoria, B.C.	3 lb.	30	"
" 19	"	49183	Harrison & McDonald, 1218 Douglas St., Victoria, B.C.	$\frac{3}{4}$ lb...	30	.....
" 20	"	49184	F. E. Plummer, 1118 Sunda St., Victoria, B.C.	3 tins.	30	"St. James" Brand.....
" 25	"	49185	Erskine & Co., 861 Johnston St., Victoria, B.C.	3 "	30	"Victoria" Brand.....
Oct. 15	"	49186	Henry W. Driver, 856 Yates St., Victoria, B.C.	3 "	30	"Gauntlet" Brand.....
" 15	"	49187	W. A. Jameson Coffee Co., 754 Broughton St., Victoria, B.C.	$\frac{3}{4}$ lb...	30

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GR UND CLOVES.

Results of Analysis

Total.	Ash.		Volatile matter at 100° C.			Fixed oil.	Total oil.	Tannin.	Crude Fibre.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.		
	Acid Insoluble.	Moisture.	Oil.	Total.										
5.40	0.20	6.15	18.75	24.90	3.75	22.50						A few stems and a little starch. (Pimento).	49181	Normal.
5.50	0.20	6.20	18.25	24.45	3.90	22.15						Numerous stems and a little starch. (Pimento).	49182	"
5.30	0.30	5.90	15.40	21.30	3.95	19.35						Starch. (Pimento).	49183	"
5.00	0.15	5.65	19.10	24.75	4.10	13.20						A few stems and a little starch. (Pimento).	49184	"
5.10	0.30	6.10	14.35	20.45	4.40	18.75						Stems and starch (Pimento).	49185	"
5.10	0.20	6.15	19.60	26.05	3.70	23.30						A few stems and traces of starch (Pimento).	49186	"
6.75	0.35	3.60	13.80	17.40	5.10	18.00						Numerous stems and starch. (Pimento).	49187	Low in Essential oil.

Concluded.

APPENDIX Q.

BULLETIN No. 253—TURPENTINE SOLD AS A DRUG.

OTTAWA, March 20, 1913.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister, Inland Revenue.

SIR,—I have the honour to hand you a report dealing with 158 samples of Turpentine purchased as a drug throughout Canada, in February and March of last year.

Quite extensive work done upon turpentine in these laboratories will be found published as Bulletin No. 79 (1901) and as Bulletin No. 211 (1910). The work referred to had for its object the ascertainment of such constants for turpentine (as used in the arts), as would enable a legal definition for such turpentine to be formulated.

An order in council passed in June, 1912, added turpentine to the fourth schedule of the Adulteration Act; and is published in Circular G. 1022 of this department.

PRIVY COUNCIL, CANADA.

AT THE GOVERNMENT HOUSE AT OTTAWA,

THURSDAY, the 6th day of June, 1912.

PRESENT:

HIS ROYAL HIGHNESS THE GOVERNOR GENERAL IN COUNCIL.

His Royal Highness the Governor General in Council, in virtue of the provisions of section 27 of chapter 133, Revised Statutes of Canada, 1906, 'An Act respecting the Adulteration of Food and other Articles,' is pleased to order as follows:—

Turpentine is hereby added to section 4 of the above described Act and the definition thereof shall be as hereinafter set forth:—

STANDARDS FOR TURPENTINE.

I. When turpentine is sold as a drug, for medical purposes or to the order of a physician, it shall meet pharmacopœal requirements as provided by section 7 of the said Act.

II. When turpentine is sold under any other conditions than for purposes of medicine, as above, it shall meet the following requirements:—

(1) It shall be entirely free from mineral oil.

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(2) Unless sold as wood turpentine, it shall absorb not less than 340 times its weight of iodine (HUBL solution and method). If sold as wood turpentine it shall absorb not less than 240 times its weight of iodine by the same method.

(3) The undissolved (unpolymerized) residue on treatment of 10cc with 40cc of a sulphuric acid containing 20 per cent of the fuming acid, shall not exceed 10 per cent by volume of the sample.

(4) The refractive index of this residue shall be not less than 1.4950 at 20 deg. C.

(5) The refractive index of the sample at 20 deg. C. shall lie between 1.4680 and 1.4730.

(6) The specific gravity of the sample at 20 deg. C. shall not be less than 0.860.

(7) The initial boiling point shall not be lower than 150 deg. C. under ordinary atmospheric pressure.

(8) At least 75 per cent by volume shall distill below 160 deg. C.

(9) The residue on evaporation over a steam bath shall not exceed two (2) per cent.

RODOLPHE BOUTDREAU,

Clerk of the Privy Council.

These definitions will render it possible to declare adulteration in the case of fraudulent substitutes for turpentine used as a paint material, or otherwise, in the arts.

But turpentine is also in use as a drug; and for its definition in this regard we must refer to the pharmacopœias....

The British Pharmacopœia (Ed. 1898) thus describes oil of turpentine:—

‘The oil distilled, usually by the aid of steam, from the oleo-resin (turpentine) obtained from *Pinus Sylvestris*, and other species of *pinus*; rectified if necessary. Limpid, colourless, with a strong, peculiar odour, which varies in the different kinds of oil, and a pungent and somewhat bitter taste. It is soluble in its own volume of glacial acetic acid. It commences to boil at about 160 deg. C. and almost entirely distills below 180 deg. C. little or no residue remaining.’

The United States Pharmacopœia (Eighth Decennial Revision), defines turpentine as ‘A concrete oleo-resin obtained from *Pinus palustris*, and from other species of *pinus*’; and oil of turpentine as ‘A volatile oil, recently distilled from turpentine. On distillation, the larger part passes over between 155 deg. and 162 deg. C.’

Other specific tests require it to be free from petroleum benzine, kerosene, or similar hydrocarbons.

Forty-one samples of the collection now reported, contain petroleum, and are therefore adulterated under section 7 of the Act. Four other samples are adulterated inasmuch as they fail to meet pharmacopœal requirements, although the character of the adulterant or adulterants is not so clearly made out. Five other samples I have judged ‘doubtful,’ and one sample is evidently a wood turpentine, and must therefore be regarded as adulterated. These results may be summarized thus:—

	Samples.
Adulterated, as containing petroleum.....	41
“ “ variously.....	4
“ “ as being wood turpentine.....	1
Doubtful.....	5
Apparently genuine.....	107
Total.....	158

The instructions issued to our inspectors required them to purchase turpentine in drug stores, and as used for dispensing.

These instructions appear not to have been closely followed in all cases. The inspector's reports show that in Nova Scotia one sample was accepted, although the vendor stated that he sold the article for "commercial purposes only," which may be understood to mean technical purposes only.

In Quebec all of the vendors declared that the article offered by them was dispensed only for "External use."

It may be remarked that the Pharmacopoeias do not distinguish between turpentine for external and for internal uses.

Correspondence with vendors, subsequent to examination of the article sold, brings statements from many to the effect that they sell turpentine for painters' use, or for removing stains from clothing, and not to any extent for medicinal purposes.

It is perfectly well known that the principal uses of turpentine are such technical uses as in paint or varnish, in shoe polishes, stain removers, etc. Even here it should be true turpentine as defined by Order in Council of June 6, 1912, quoted above.

The presence of petroleum (mineral oils) is equally an adulteration of turpentine whether this is sold for medicinal purposes or for uses in the arts.

This is the main adulteration of turpentine at present; and is evidently the result of a desire to find a market for cheap petroleum fractions at the price of turpentine.

It has been asserted that the intermixture of small percentages of petroleum does not injure turpentine for painters' use.

This statement is very difficult to believe when we consider the different behaviour of terpenes and petroleum to oxygen; but even were it true, the purchaser should be able to buy turpentine when he asks for turpentine, and pays the price of that article. If he desires to add petroleum to it, he can easily purchase the petroleum at its market price, and mix as he may please.

Or, if he is offered a mixture of turpentine with petroleum, the true character of such mixture should be made known to him at the time of sale, and it should not be offered him as turpentine.

Turpentine appears not to be made in Canada: A large importing house in Montreal writes under date March 29: "Turpentine is an article that it is impossible for the jobber in Canada to control, as there is no turpentine manufacturer in this country; and if it is the intention of the government to prevent adulterated turpentine to be sold in this country, why do they not stop its importation? All the turpentine that we buy is bought for pure; and if it is not pure it is a matter that we have no control over whatever. We think, therefore, that the labour you have gone to, as far as turpentine is concerned, is wasted." This statement is echoed by several other correspondents.

If it be indeed true that Canada has no control over the quality of the article turpentine, the case is a sad one; and it should lead to renewed effort on the part of manufacturers to try still further to obtain a good wood turpentine from the extensive raw materials which are found in our country.

I have seen very good turpentine of Canadian manufacture, produced in experimental plants; and am not without hope that the production of turpentine may yet become a successful Canadian industry.

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But, even should we be compelled to rely upon the imported article, it is certain that genuine turpentine is obtainable, if sufficient care in testing samples be taken. This is evidenced by the present report, in which 106 samples out of 158 are found to be pure. That adulterated turpentine is very widely found upon the United States markets is proved by the reports issued by the various Experiment Stations; and the following Notices of Judgment obtained in American courts, and published from Washington, are instructive:—

Notice of judgment.	Manufacturer.	Penalty.
No.		
220	Carolina Pine Products Co.	Goods forfeited.
248	Heekins Turpentine	Fine \$5.
337		" \$10
539	Gulf Man. Co. Louisiana	" \$10 and costs.
877	South Carolina Co.	" \$50.
929		Bond given \$100.
1022		Goods destroyed.
1124		"
1373	Barelay Naval Stores Co.	Bond given \$100.
1413		Fine \$20 and costs.
1608	Carolina Pine Products Co.	Goods destroyed.
2109	U.S. Turpentine & Co., N.Y.	Suspended sentence.

In all the above cases, adulteration consisted in admixture of mineral oil in amount varying from 3 per cent to 35 per cent.

I am convinced that most of the importers and distributors of turpentine named in this report, and probably all of the immediate vendors, believed themselves to be supplying genuine turpentine, or, at least, the best article procurable. If this report does nothing more than expose the facts of the case it will, I think, be justified, and if it leads Canadian importers of turpentine to take necessary precautions to procure a genuine article, and to refuse to buy adulterated goods, it will have performed a valuable service to the community. If we have not home-produced turpentine in Canada, we have at least home-produced petroleum and can make such additions of that article as we may think desirable.

As this is the first inspection of turpentine since its legal definition by Order in Council, I think it not unreasonable, in view of this fact, and of the above considerations, to suggest that no legal action be taken by the Department; but that the information furnished be regarded as advisory.

I beg to recommend publication of this report as Bulletin No. 253.

I have the honour to be, Sir,

Your Obedient Servant,

A. MCGILL,

Chief Analyst.

BULLETIN No. 253—TABLE 1, PART I—TURPENTINE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		
DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.									
1912.									
Feb. 9	Turpentine.	47001	J. E. Jones, Digby, N.S.	1 pt.	30	Unknown	W. H. Thorne, St. John, N.B.		Genuine.
" 16	"	47002	Nat. Drug & Chem. Co., Halifax, N.S.	1 "	30	Caroline Pine Tar Products Co., N.Y.	Manufacturers		Contains petroleum
" 19	"	47003	Brown Bros. & Co., Halifax, N.S.	1 "	30	Unknown	Imperial Oil Co., Halifax, N.S.		Genuine.
" 19	"	47004	G. A. Burbidge, Halifax, N.S.	1 "	25	"	Nat. Drug Co., Halifax, N.S.	Sold for commercial purposes only.	Contains petroleum.
" 19	"	47005	E. S. Blackie, Halifax, N.S.	1 "	20	"	"	"	"
" 19	"	47006	Buckley Drug Co., Halifax, N.S.	1 "	25	"	Imperial Oil Co., Halifax, N.S.		Genuine.
" 19	"	47007	W. D. Walsh, Halifax, N.S.	1 "	20	"	Nat. Drug Co., Halifax, N.S.		Contains petroleum.
" 19	"	47008	G. McD. Taylor, Halifax, N.S.	1 "	30	"	"		"
" 22	"	47009	G. C. McDougall, Kentville, N.S.	1 "	25	"	Canadian Drug Co., St. John, N.B.		Genuine.
" 29	"	47010	J. J. Kinley, Lunenburg, N.S.	1 "	20	"	S. E. Mack, Lunenburg, N.S.		"
DISTRICT OF PRINCE EDWARD ISLAND—WM. A. WEEKS, INSPECTOR.									
Feb. 6	Turpentine.	46116	Reddin Bros., Charlottetown, P.E.I.	1 pt.	30		Fennel & Chandler, Charlottetown, P.E.I.		Genuine.
" 6	"	46117	J. G. Jamieson, Charlottetown, P.E.I.	1 "	90	Lymans, Ltd., Montreal.			"

"	9	"	46118	McKinnon Drug Co., Charlotte-1 town, P.E.I.	"	35	W. H. Thorne, St. John, N.B.	Contains petroleum.
"	9	"	46119	The Two Mac's., (Geo. McDonald) at Charlotte-town, P.E.I.	"	30	Unknown	"
"	12	"	46120	C. D. Rankin, Charlotte-town, 1 P.E.I.	"	20	S. W. Crable, Charlotte- town, P.E.I.	Genuine.
"	12	"	46121	Johnson & Johnson, Charlotte-1 town, P.E.I.	"	25	Rogers Hardware Co., Ltd., Ch. Town, P.E.I.	"
"	15	"	46122	Gourles, Ltd., Summerside, P. 1	"	25		Not genuine.
"	15	"	46123	P. N. Eunan, Summerside, 1	"	25	Brace McKay & Co., Summerside, P.E.I.	Genuine.
"	21	"	46124	H. J. Mabon, Souris, P.E.I. 1	"	35	Nat. Drug & Chem. Co., Manufacturers Halifax, N.S.	Contains petroleum.
"	21	"	46125	Dr. A. McDonald, Souris, P. 1 E.I.	"	30	Canadian Drug Co., St. John, N.B.	Genuine.

DISTRICT OF NEW BRUNSWICK J. C. FERGUSON, INSPECTOR.

Feb.	13	Tar-pentine.	45581	E. Chinton Brown, St. John, 1 part N.B.	"	25	S. Hayward Co., St. John	Genuine
"	13	"	45582	A. C. Smith & Co., St. John, 3	"	20	Nat. Drug & Chem. Co., Quebec.	"
"	13	"	45583	The Nat. Drug & Chem. Co., 3 N.B.	"	20	Unknown	Imported by Vendors from Southern States.
"	13	"	45584	Wm. Hawker & Son, N.B.	"	3	W. H. Thorne & Co., St. John, N.B.	"
"	27	"	45585	Johnston & Johnston, St. Ste. 3 phen, N.B.	"	20	De Wolfe Bros., St. Ste. phen, N.B.	"
Mar.	5	"	45586	Chas. A. Birchall, Fredericton, 3 N.B.	"	30	Jas. Neill & Sons, Fred- ericton, N.B.	Contains petroleum.
"	6	"	45587	The Barel Co., Ltd., Wood-3 stock, N.B.	"	15	Carolina Pine Products Co., Cleveland, Ohio.	"
"	12	"	45588	E. J. Sharp, Sussex, N.B.	"	3	W. H. Thorne & Co., St. John.	"
"	13	"	45589	Fairweather Bros., Moncton, 3 N.B.	"	20	Summer & Co., Moncton, N.B.	Genuine
"	14	"	45590	A. E. Shaw, Newcastle, N.B.	"	3	Nat. Drug & Chem. Co., St. John.	"

BULLETIN No. 253—TABLE I, PART I.—TURPENTINE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.		Cost.	Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion.)	Remarks and Opinion of the Chief Analyst.
			Name and Address of Vendor.	Quantity.		Manufacturer.	Furnisher.		
1912.									
Feb. 5	Turpentine.	37338	David Gagnon, 30 Rue St. Pierre, Que.	1 pint	25	Unknown	J. M. Noel, Quebec.	For external use.	Genuine.
" 5	"	37339	Dr. Ed. Morin, 112 Cote montagne St., Que.	1 "	25	"	Comp. Chimie, Quebec.	"	"
" 5	"	37340	J. E. Livernois, St. Bonillard, Quebec.	1 "	23	Imperial Oil Co., Quebec	Mrs.	"	"
" 5	"	37341	"	1 "	67	Unknown	Unknown	"	"
" 5	"	37342	F. C. Lachetroitière, 234 Rue Jean, Quebec.	1 "	75	"	Ed. Drum, Quebec.	"	"
" 5	"	37343	"	1 "	150	"	Lymans, Ltd., Montreal	"	"
" 5	"	37344	A. L. Jolicœur, 338 Rue Jean, Quebec.	1 "	25	"	Unknown	"	"
" 5	"	37345	A. E. Francoeur, 379 Rue Jean, Quebec.	1 "	60	"	W. Brunet & Cie, Quebec	"	Contains petroleum.
" 8	"	37346	L. E. Martel, 51 Rue St. Joseph, Quebec.	1 "	20	"	Unknown	"	Doubtful.
" 8	"	37347	Esate G. P. Plamondon, 122 Rue St. Joseph, Quebec.	1 "	20	"	J. E. Martineau, Quebec	"	Genuine.

DISTRICT OF QUEBEC—F. X. W. E. BELAND, INSPECTOR.

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DISTRICT OF ST. HYACINTHE—J. C. ROULEAU, INSPECTOR.

Feb. 19	Turpentine.	39001	Dr. Comeau, Farnham	1 pint	30	Lyman's, Ltd., Montreal	Genuine.
"	"	39002	P. P. Sabourin, St. Jean	"	20	Lyman Knox & Co., Montreal	Contains petroleum.
"	"	39003	Dr. Girouard, Drummondville	"	50	N. D. & C. Co., Montreal	"
Mar. 5	"	39004	L. E. Brown, Grantby	"	40	Unknown	"
"	"	39005	J. W. Johnson, Cowansville	"	20	Buzzell Bros., Cowansville	"
"	"	39006	Pharmacie Larochelle, Sorel	"	30	Lyman's, Ltd., Montreal	Genuine.
"	"	39007	Pharmacie Massicotte, Victoriaville	"	35	Lyman Knox & Co., Montreal	Contains petroleum.
"	"	39008	Dr. J. B. Drouin, Victoriaville	"	35	N. D. & C. Co., Montreal	"
"	"	39009	Phar. Beland, Richmond	"	35	"	"
"	"	39010	John West, Magog	"	25	Drug Trading Co., Ltd., Toronto	Genuine.

DISTRICT OF MONTRÉAL—J. J. COSTIGAN, INSPECTOR.

Feb. 6	Turpentine.	32686	J. A. D. Godbout, 54 Craig St.	1 pint	40	Lyman's, Ltd., Montreal	Genuine.
"	"	32687	S. Choquet, 133 Aubert St.	"	40	"	"
"	"	32688	R. Martineau, 1115 St. Denis	"	25	"	"
"	"	32689	M. Frenaud, 43 St. Catherine	"	40	"	Doubtful.
"	"	32690	L. G. Ryan, 545 Notre Dame	"	25	"	Contains petr. detm.
"	"	32691	C. L. B. Lippin, 607 Notre Dame	"	20	"	Genuine.
"	"	32692	H. Dugal, 803 Notre Dame	"	40	"	Doubtful.
"	"	32693	O. Brault, 248 St. Antoine	"	30	Lyman Knox Co.	Contains petroleum.
"	"	32694	Dr. Brault, 1011 St. Lawrence	"	20	Lyman Knox Co., Ltd., Montreal	"
"	"	32695	Louis Weisfeld, 1112 St. Lawrence	"	30	Beaver Oil Co., Ltd., Montreal	"

BULLETIN No. 253—TABLE I, PART I—TURPENTINE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		
1912.									
Feb. 7.	Turpentine.	50101	Medical Hall, Cornwall.....	1 pt.	30	Unknown.....	Queen City Oil Co.....		Genuine.
" 9.	"	50102	Brock Ostrom & Son, Alexan dria.	1 "	30	"	Lymans, Ltd., Montreal.		"
" 12.	"	50103	E. J. Durocher, Ottawa.....	16 ozs.	20	"	Ottawa Paint Works, Ottawa.		Not genuine.
" 13.	"	50104	The People's Drug Co., Ltd., Renfrew.	16 "	20	"	Queen City Oil Co, Ottawa.		Genuine.
" 13.	"	50105	Jas. Clark, Renfrew	16 "	20	"	Lymans, Ltd., Montreal.		"
" 19.	"	50106	Jos. G. Valiquette, Dalhousie St., Ottawa.	1 pt.	25	"	Queen City Oil Co, Ottawa.		"
" 20.	"	50107	Allen & Cochrane, Ottawa. ...	16 ozs.	15	"	"		"
" 20.	"	50108	T. A. Brownlee, Ottawa	1 pt.	20	"	"		"
" 20.	"	50109	W. A. Henderson, Ottawa.....	1 "	20	"	Ottawa Drug Co., Ottawa.		Contains petroleum.
" 21.	"	50110	Beattie & Argue, Bronson Ave., Ottawa.	1 "	20	"	Queen City Oil Co, Ottawa.		Genuine.

DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.

DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.

Feb. 5.	Turpentine.	49501	J. B. McLeod, Kingston.....	1 pt.	25		N. C. Polson, Kingston..		Genuine.
" 5.	"	49502	A. P. Chown, Kingston.....	1 "	35		Dalton & Son, Kingston.		"

5	49503	W. H. Medley, Kingston	1 lb	30	N. C. Polson, Kingston	"
6	49504	Geo. W. Mahood, Kingston	1 lb	25	A. Chown & Co., Kingston, Ont.	Contains petroleum.
7	49505	A. L. Green, Belleville	1 lb	25	Southern U.S. Turpentine Co., Cleveland	"
7	49506	F. C. Clark, Belleville, Ont	1 lb	30	Canada Paint Co., Montreal	Genuine.
7	49507	D. M. Waters, Belleville	1 lb	25	Queen City Oil Co., Toronto	"
7	49508	T. Geo. Watson, Port Hope	1 lb	30	Nat. Drug Co., Toronto	"
8	49509	McDonald & Jury, Peterboro	1 lb	25	Canada Oil Co., Toronto	"
8	49510	E. L. Payne, Peterboro	1 lb	35	Unknown	"

DISTRICT OF TORONTO - H. J. DAGGER, INSPECTOR.

Feb.	6	Turpentine	1 pt	20	Nat. Drug & Chem Co., Hamilton	Doubtful.
6	49338	W. M. Stewart Drug Co., Ltd., Grimsby	1 lb	25	A. E. Beane, Grimsby	Refined sp. of Genuine turpentine.
8	49339	G. A. Woodhouse, 133 King st. west, Hamilton	1 lb	20	Blanchet & Reche, Hamilton	Doubtful.
13	49340	Fred. Murch, Main st. east, Toronto	1 lb	25	British Am. Oil Co., Toronto	Contains petroleum.
13	49341	John Taylor, Port Credit, Toronto	1 lb	20	Nat. Drug & Chem. Co., Ltd., Toronto	"
16	49342	J. F. Wallis, Aurora	1 lb	20	Queen City Oil Co., Ltd., Toronto	Genuine.
16	49343	W. J. Patterson, Newmarket	1 lb	25	The Drug Trading Co., Ltd., Toronto	"
19	49344	J. E. A. White, Shelburne	1 lb	25	Unknown	"
19	49345	L. F. Boyd, Thornbury	1 lb	20	Whites, Ltd., Collingwood	Wood turpentine.
Mar.	1	W. H. Lee, 261 Avenue road, Toronto	1 lb	25	Drug Trading Co., Ltd., Spex. Turpen. Toronto	Genuine.

BULLETIN No. 253—TABLE I, PART I.—TURPENTINE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion.)	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		
DISTRICT OF LONDON—JNO. TALBOT, ACTING INSPECTOR.									
1912.									
Feb. 19	Turpentine.	47883	W. S. Cole, Exeter.	12 oz.	20		Nat. Drug Co., London.		Genuine.
" 19	"	47855	W. H. Howey, Exeter.	12 "	30		Drug Trading Co., Toronto.		"
" 20	"	47893	W. S. R. Holmes, Clinton.	12 "	25		Harlem Bros, Clinton.		"
" 20	"	47896	J. E. Hovey, Clinton.	12 "	18		Nat. Drug Co., Hamilton.		"
" 20	"	48203	W. A. McConnell, Clinton.	12 "	30		R. Rowen, Clinton.		"
" 21	"	48210	Chas. Aberhart, Seaforth.	12 "	30		G. A. Sells.		"
" 22	"	48218	E. A. Robertson, Stratford.	12 "	20		G. N. Ward & Son, Stratford.		"
" 22	"	48223	H. M. Myers, Stratford.	12 "	25		Myers Hardware Co., Stratford.		"
" 24	"	48228	Frank H. Smith & Co., St. Mary's.	12 "	40		Canada Patent Co.		"
DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.									
Feb. 9	Turpentine.	47863	W. T. Strong, London.	12 oz.	25		Queen City Oil Co.		Genuine.
" 9	"	47865	Anderson & Nelles.	12 "	30		Nat. Drug Co.		"
" 12	"	47872	Clement Drug Co., Sarnia.	12 "	30		McKenzie Milne Co., Sarnia.		"
" 12	"	47873	R. T. Geary, Sarnia.	12 "	25		N. D. Rugore, Sarnia.		"
" 13	"	47879	W. T. Rapley, Strathroy.	12 "	20		Nat. Drug Co.		"

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"	6	"	48073	W. R. Lutz, London	12 "	15	Queen City Oil Co	"	"
"	7	"	48091	C. T. Allen, London East	12 "	25	Parsons Fair London Pack	"	"
"	8	"	48097	Taylor Drug Co., London	12 "	15	McLean Hardware Co., London	"	"
"	9	"	48099	John E. Platt, London	12 "	Nil	Cowan Hardware Co., London	"	"
DISTRICT OF MANITOBA - A. C. LARIVIÈRE, INSPECTOR.									
Feb.	19	Turpentine.	48621	N. G. End Pharmacy, Winnipeg	1 pint	35	The Nat. Drug Co., Winnipeg	Contains petroleum.	
"	19	"	48622	H. D. Campbell, Druggist, 1 "	45		Imperial Oil Co., Winni- peg	Genuine.	
"	19	"	48623	Lamo Drug Co., Winnipeg	1 "	45	Nat. Drug Co., Winni- peg	Contains petroleum.	
"	26	"	48624	Wm. McCallach, Druggist, 1 "	45		Winnipeg Oil Co., Win- ipeg	"	
"	20	"	48625	The Auction Mart, Druggist, 1 "	30		Winnipeg Vendors	Genuine.	
Mar.	12	"	48626	Sanders Drug Store, Carleton Place	1 "	30		Contains petroleum.	
"	14	"	48627	Cawsons Drug Store, Port Carleton	1 "	30	The Nat. Drug & Chemi- cal Co., Winnipeg	Genuine.	
"	14	"	48628	B. M. Gombell, Druggist, Port Carleton	1 "	20	Winnipeg Oil Co., Win- ipeg	Contains petroleum.	
"	19	"	48629	Robertsons Drug Store, Port Carleton	1 "	50	Winnipeg Oil Co., Win- ipeg	"	
"	19	"	48630	McCallach's Drug Store, Port Carleton	1 "	35	Hardware Hardware Co., Port Carleton	Not genuine.	

DISTRICT OF CALGARY - R. W. FLETCHER, INSPECTOR.

Mar.	8	Turpentine.	44101	E. Harshy, Edmonton	1 pint	20	T. H. Smart, Edmonton	Contains petroleum.	
"	8	"	44102	J. M. Sissons, Edmonton	1 "	20	Sommerfeld Hardware Co., Edmonton	Genuine.	
"	8	"	44103	T. McCallum, Edmonton	1 "	30	Lynch Bros. & Co., Ed- monton	"	
"	8	"	44104	J. H. Laves, Edmonton	1 "	30	Sommerfeld Hardware Co., Edmonton	Contains petroleum.	
"	8	"	44105	E. M. Carpenter	1 "	30	"	"	
"	18	"	44106	Oliver Bros., Ltd., Calgary	1 "	25	C. C. Snowden, Calgary	Genuine.	

BULLETIN No. 253—TABLE I, PART I.—TURPENTINE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.		Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Remarks and Opinion of the Chief Analyst.
			Quantity.	Cents.	Manufacturer.	Furnisher.				
DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR— <i>Continued.</i>										
1912.										
Mar. 18	Turpentine.	44107	The McDiarmid Drug Co., Cal- gary.	1 pint.	25		G. F. Stephens, Calgary.			Genuine.
" 18	"	44108	McFarlane & White, Calgary.	1 "	25		Canadian Oil Co., Cal- gary.			Contains petroleum.
" 18	"	44109	McCutcheon & McGill, Calgary.	1 "	25		C. C. Snowdon, Calgary.			"
" 18	"	44110	"	1 "	25		"			"
DISTRICT OF NELSON—THOS. PARKER, INSPECTOR.										
Feb. 13	Turpentine.	48487	Mallory Drug Co., Kamloops, B.C.	12 oz.	30		Nat. Drug Co., Montreal.			Genuine.
" 13	"	49603	J. H. Clements, Kamloops, B.C.	12 "	35		N. S. Dalgleish, Kam- loops.			"
" 13	"	49604	A. Galloway, Kamloops, B.C.	12 "	30		"			"
" 20	"	49628	W. M. Huston, Ashcroft, B.C.	12 "	30		M. Dumond, Ashcroft.			"
" 26	"	49632	Canada Drug & Book Co., Nel- son, B.C.	12 "	25		Nelson Hardware Co., Nelson.			"
" 26	"	49633	Poole Drug Co., Nelson, B.C.	12 "	25		Teeporten & Co., Van- couver.			"
" 26	"	49634	W. Rutherford, Nelson, B.C.	12 "	35		Lyman's Ltd., Montreal.			Not genuine.
Mar. 6	"	49636	A. Stewart, Eholt, B.C.	12 "	39		Russell, Law & Caulfield, Greenwood, B.C.			Genuine.
" 7	"	49637	J. Love, Phoenix, B.C.	12 "	50		Morrin, Thompson & Co., Phoenix B.C.			"
" 8	"	49638	Woodland & Co., Grand Forks, B.C.	12 "	30		Imperial Oil Co., Winni- peg.			"

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DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.

Feb.	14 Turpentine.	38285 G. H. Cowan Drug Co., Chilliwack, B.C.	1 pint	45	Dr. Am. Paint Co., Victoria.	Contains petroleum.
"	"	38286 H. J. Barber, Chilliwack, B.C.	"	50	Unknown	.....	Genuine.
"	"	38287 W. W. Copeland, Abbotsford, B.C.	"	60	Nat. Drug Co., Vancouver.	.....	"
"	"	38288 A. Stephen, Mission Jct., B.C.	"	45		.....	"
"	"	38289 A. R. Willard, Westminster, B.C.	"	75		.....	"
"	"	38290 H. Ryall, New Westminster, B.C.	"	40	Imperial Oil Co., New Westminster.	.....	"
"	"	38291 D. S. Curtis & Co., New Westminister, B.C.	"	50		.....	"
"	"	38292 T. A. Muir & Co., New Westminister, B.C.	"	45		.....	"
"	"	38293 McKenzie's Pharmacy, Westminster, B.C.	"	50		.....	"
"	"	38294 E. H. Hall, Elmer, B.C.	"	30	Durand Imperial Co., Vancouver.	.....	"

DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.

Mar.	11 Turpentine.	69120 D. E. Campbell, Victoria, B.C. <th>1 pint</th> <th>25</th> <th>B. Am. Paint Co., Ltd., Victoria, B.C. <th>.....</th> <th>Genuine.</th> </th>	1 pint	25	B. Am. Paint Co., Ltd., Victoria, B.C. <th>.....</th> <th>Genuine.</th>	Genuine.
"	"	69121 W. S. Terry, Victoria, B.C.	"	25	The Stenland Co., Victoria, B.C.	.....	"
"	"	69122 John Cochran, Victoria, B.C.	"	25	Melrose Co., Ltd., Victoria, B.C.	.....	"
"	"	69123 Hall & Co., Victoria, B.C.	"	35	B. Am. Paint Co., Ltd., Victoria, B.C.	.....	"
"	"	69124 Wm. Jackson & Co., Victoria, B.C.	"	35	Melrose Co., Ltd., Victoria, B.C.	.....	"
"	"	69125 Geo. A. Fraser, Victoria, B.C.	"	25	Nat. Drug & Chem. Co., Ltd., Victoria, B.C.	.....	"
"	"	69126 F. J. Williams, Victoria, B.C.	"	25		.....	"
"	"	69127 Ivell's Pharmacy, Victoria, B.C.	"	25	Sprague & Co., Victoria, B.C.	.....	"
"	"	69128 B.C. Drug Store, Victoria, B.C.	"	25	Nat. Drug & Chem. Co., Ltd., Victoria, B.C.	.....	"
"	"	69129 Nat. Drug & Chem. Co., Victoria, B.C.	"	25	Imperial Oil Co., Vancouver, B.C.	.....	"

4 GEORGE V., A. 1914
BULLETIN No. 253—TABLE I,
RESULTS OF

Name of Inspectoral District.	No. of Sample.	Sp. Gr. 15.5°C.	Residue 10 cc. 40 cc. acid.	Ref. Index 20°C. Residue.	Ref. Index 20°C. Turpentine.	Boiling Point of Fractions from 100 cc.			
						1st 25 cc	2nd 25 cc.	3rd 25 cc.	Next 15 cc.
Nova Scotia.....	47001	8689	1 7	1 4794	1 4687	154-155	-159	-163	-172
	47002	8564	4 3	1 4923	1 4652	155-164	-171	-194	
	47003	8950	7	1 5060	1 4750				
	47004	8568	4 3	1 4650	1 4652	156-163	-171	-194	
	47005	8598	4 2	1 4616	1 4662	156-164	-170	-189	
	47006	8709	2	1 5042	1 4705				
	47007	8569	4 4	1 4642	1 4652	155-164	-172	-194	
	47008	8580	4 2	1 4644	1 4664	153-162	-167	-190	-227
	47009	8745	8	1 5060	1 4716				
	47010	8799	7	1 5035	1 4725				
Prince Edward Island.....	46116	8702	9	1 5033	1 4700				
	46117	8762	8	1 5097	1 4705				
	46118	8514	4 5	1 4543	1 4630	155-164	-170	-191	
	46119	8770	4 1	1 4620	1 4651	153-162	-169	-192	
	46120	8685	8	1 5051	1 4704				
	46121	8799	8	1 5010	1 4720				
	46122	8717	1 6	1 4781	1 4682	153-158	-163	-168	-191
	4623	8718	9	1 5024	1 4700				
	46124	8517	4 4	1 4570	1 4630	150-160	-168	-190	
	46125	8722	9	1 5026	1 4709				
New Brunswick.....	45581	8712	1 0	1 5023	1 4710				
	45582	8750	8	1 5023	1 4704				
	45583	8508	8	1 5032	1 4725				
	45584	8861	8	1 5024	1 4731				
	45585	8795	9	1 5038	1 4718				
	45586	8739	3 1	1 4572	1 4657	153-160	-166	-181	
	45587	8593	4 2	1 4670	1 4660	156-164	-170	-192	
	45588	8793	3 0	1 4633	1 4680	152-162	-169	-189	
	45589	8766	1 1	1 5014	1 4718				
	45590	8716	9	1 5022	1 4701				
Quebec.....	37338	8764	9	1 4974	1 4710	154-157	-158	-161	-170
	37339	8766	1 1	1 4900	1 4705				
	37340	8739	9	1 4983	1 4716	154-157	-158	-159	-167
	37341	8669	8	1 5010	1 4683				
	37342	8795	9	1 4960	1 4725				
	37343	8831	9	1 5061	1 4728				
	38344	8781	9	1 4994	1 4722				
	37345	8612	2 1	1 4641	1 4650	153-157	-159	-163	-173
	37346	8730	1 3	1 4848	1 470	154-158	-160	-165	-195
	37347	8987	8	1 4978	1 4756				
St. Hyacinthe.....	39001	8773	1 0	1 5009	1 4705				
	39002	8533	4 3	1 461	1 4640	153-162	-169	-185	-224
	39003	8508	4 5	1 4589	1 4614	149-160	-166	-177	-202
	39004	8682	3 9	1 4580	1 4651	150-161	-169	-170	
	39005	8477	5 0	1 4540	1 4619	155-164	-170	-193	
	39006	8729	1 0	1 4980	1 4708	151-157	-159	-161	-178
	39007	8508	4 5	1 4997	1 461	149-159	-164	-176	-205
	39008	8644	4 2	1 4608	1 4660	150-160	-170	-200	
	39009	8513	4 6	1 4601	1 4620	152-162	-161	-187	
	39010	8740	9	1 5027	1 4712				
Montreal.....	32686	8719	1 0	1 5014	1 4709				
	32687	8740	9	1 5030	1 4701				
	32688	8764	1 0	1 5009	1 4716				
	32689	8688	1 5	1 4871	1 4696	154-158	-158	-163	-173
	32690	8504	4 1	1 458	1 4617	148-160	-167	-177	-205
	32691	8824	6	1 5049	1 4742				
	32692	8780	1 3	1 4954	1 4714	152-157	-158	-162	-178
	32693	8584	4 2	1 4642	1 463	155-164	-169	-194	
	32694	8533	4 2	1 4616	1 4631	153-162	-169	-187	
	32695	8601	4 1	1 4616	1 4650	155-163	-170	-194	

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PART II—URPENTINE

ANALYSIS.

Refractive Index 20°C. of Fractions and Residues.				Volumes obtained from 100 cc								No. of Sample.	Remarks and Opinion of the Chief Analyst.				
I.	II.	III.	IV.	Residual 10 cc.	Residual 25 cc.	Under 150°C	150°-17°	17°-158°	160°-166°	165°-168°	170°-174°			175°-176°	180°-184°	185°-189°	190° and over
1 4631	1 4655	1 4668	1 4674	1 4862			3.5	20	8	2						47001	Genuine.
1 4698	1 4634	1 4644			1 4720		9	22	16	13	0	4	3	17		47002	Contains petroleum.
1 4716	1 4612	1 4646			1 4712		9	24	14	11	8	4	1	17		47003	Genuine.
1 4625	1 4611	1 4650			1 4725		11	6	20	11	7	5	4	15		47004	Contains petroleum.
																47005	"
																47006	Genuine.
1 461	1 4638	1 4645			1 4708		8	19	18	12	8	4	3	18		47007	Contains petroleum.
1 461	1 4645	1 4651	1 4664	1 4781			2	16	25	18	6	5	4	24		47008	"
																47009	Genuine.
																47 10	"
																46116	"
																46 17	"
1 457	1 4612	1 4630			1 4694		12	19	17	13	6	4	6	6		46118	Contains petroleum.
1 45 6	1 4601	1 4658			1 4746		6	1	15	17	8	7	4	2 17		46119	"
																46 20	Genuine.
																46121	"
1 4651	1 4673	1 4689	1 4721	1 5051			4	3	27	17	3	2	2	1		4 122	Not genuine.
																46 23	Genuine.
1 454	1 4613	1 4646			1 4768		8	1	18	13	8	6	5	2 15		4 124	Contains petroleum.
																46 15	Genuine.
																4 581	"
																45 82	"
																45 83	"
																45 84	"
																4585	"
1 457	1 4617	1 4638			1 4873		11	14	18	21	6	4	3	2 1		4586	Contains petroleum.
1 462	1 4616	1 4631			1 4720		7	23	18	12	6	4	1	17		45 87	"
1 460	1 4641	1 4670			1 4574		4	22	20	7	6	5	2	15		45 88	"
																4589	Genuine.
																4590	"
1 467	1 4630	1 4700	1 4729	1 4995			3	6	2	4						374 8	"
																37539	"
1 467	1 4682	1 4690	1 4716	1 4941			3	5	9	2						37540	"
																37541	"
																37542	"
																37543	"
																37544	"
1 462	1 4648	1 4625	1 4670	1 4790			9	24	7	4						37345	Contains petroleum.
1 465	1 4677	1 4687	1 4727	1 5124			3	6	2	7	4	2	1	1		37346	Doubtful.
																37347	Genuine.
																39001	"
1 458	1 4620	1 4634	1 4651	1 4790			2	6	3	13	9	7	3	1 3		39002	Contains petroleum.
1 465	1 4611	1 4625	1 4638	1 4793			6	15	21	17	9	7	4			39003	"
1 406	1 4620	1 4634			1 4834		6	1	17	15	10	6	5	2		3 004	"
1 400	1 4582	1 4665			1 4710		1	18	18	10	6	5	4 10			39005	"
1 467	1 4689	1 4690	1 4716	1 4941			4	6	3							3 006	Genuine.
1 463	1 4635	1 4628	1 4635	1 4712			2	7	18	23	11	8	7	3 2 6		39007	Contains petroleum.
1 4 0	1 4622	1 4661			1 4837		8	1	1	11	10	5	5	17		39008	"
1 456	1 4612	1 4627			1 4766		5	11	24	12	12	6	3	1 6		39009	"
																39010	Genuine.
																31686	"
																31687	"
																32688	"
1 466	1 4681	1 4684	1 4708	1 4958			5	8	19	8	3					32689	Doubtful.
1 456	1 4616	1 4621	1 4634	1 4763			2	7	16	22	14	10	7	4 2 1		32690	Contains petroleum.
																326 1	Genuine.
1 4 82	1 4698	1 4704	1 5061	1 5060			5	57	20	6	1	1				32692	Doubtful.
1 4624	1 4 17	1 4651			1 4718		8	22	20	19	6	4	3	17		326 3	Contains petroleum.
1 4584	1 4631	1 4 32			1 471		14	19	15	1	7	4	5	12		32694	"
1 4597	1 4628	1 4645			1 4760		6	27	15	11	6	5	3	17		32695	"

BULLETIN No. 253—TABLE I

RESULTS OF

Name of Inspectoral District.	No. of Sample.	Sp. Gr. 15.5°C.	Residue 10 cc. 40 cc. acid.	Ref. Index 20 C. Residue.	Ref. Index 20°C. Turpentine.	Boiling Point of Fractions from 100 cc.			
						1st 25 cc.	2nd 25 cc.	3rd 25 cc.	Next 15 cc.
			cc.			° °	° °	° °	° °
Ottawa.	50101	8742	1.1	1.4998	1.4716				
	50102	8829	1.0	1.4998	1.4728				
	50103	8543	2.5	1.4620	1.4637	145-154	-157	-159	-164
	50104	8796	1.1	1.5002	1.4720				
	50105	8671	1.0	1.5049	1.4710				
	50106	8683	1.0	1.4944	1.4698				
	50107	8688	1.2	1.4978	1.4694				
	50108	8730	1.2	1.4923	1.4706	151-159	-163	-177	
	50109	8512	4.4	1.4590	1.4617	150-160	-164	-173	-197
	50110	8742	1.2	1.4898	1.4718	150-158	-162	-164	-190
Kingston	49501	8797	.8	1.5040	1.4700				
	49502	8672	.8	1.5066	1.4700				
	49503	8671	.8	1.5080	1.4704				
	49504	8522	4.0	1.4600	1.4621	153-159	-163	-170	-193
	49505	8580	3.0	1.4667	1.4651	154-158	-161	-167	-179
	49506	8697	.8	1.5058	1.4701				
	49507	8714	1.2	1.4936	1.4720	155-157	-158	-161	-170
	49508	8724	1.1	1.5020	1.4705	156-158	-158	-159	-162
	49509	8709		1.5051	1.4709				
	49510	8716	.8	1.5055	1.4707				
Toronto	49337	8690	1.3	1.4952	1.4698	156-158	-158	-159	-164
	49338	8719	.9	1.5034	1.4726				
	49339	8689	1.3	1.4982	1.4696				
	49340	8585	2.5	1.4661	1.4630	152-158	-159	-165	-180
	49341	8547	2.8	1.4594	1.4640	152-159	-162	-171	-210
	49342	8761	.8	1.4910	1.4670				
	49343	8724	1.1	1.5033	1.4709				
	49344	8665	1.0	1.5030	1.4690				
	49345	8650	1.7	1.4850	1.4688	142-156	-160	-164	-176
	49346	8683	1.1	1.5015	1.4703				
London	47843	8753	.9	1.4960	1.4709	152-158	-160	-164	-196
	47845	8754	.9	1.5030	1.4716				
	47893	8714	.8	1.5007	1.4701				
	47895	8747	.7	1.5030	1.4708				
	48203	8778	1.1	1.4956	1.4718				
	48210	8678	1.0	1.5030	1.4705				
	48218	8747	1.2	1.4930	1.4706	155-158	-159	-162	-174
	48223	8702	1.0	1.5049	1.4700				
	48228	8753	1.2	1.4961	1.4710	154-158	-159	-162	-171
	47863	8742	1.0	1.5002	1.4708				
Windsor	47865	8717	.8	1.5033	1.4703				
	47872	8711	.9	1.4979	1.4707				
	47873	8737	.9	1.5020	1.4710				
	47879	8712	.8	1.5030	1.4707				
	48076	8700	.9	1.4922	1.4702				
	48090	8695	.9	1.5020	1.4705				
	48097	8710	.9	1.5018	1.4706				
	48099	8685	.9	1.5040	1.4700				
	48621	8605	2.1	1.4728	1.4678	154-157	-159	-164	-183
	48622	8716	1.0	1.5024	1.4700				
Manitoba	48623	8620	2.2	1.4727	1.4668	155-158	-160	-163	-185
	48624	8606	2.5	1.4660	1.4666	154-159	-161	-166	-199
	48625	8679	.9	1.5049	1.4700				
	48626	8703	2.1	1.4693	1.4681	150-157	-160	-167	-202
	48627	8749	1.1	1.4873	1.4692	155-159	-160	-162	-179
	48628	8793	2.1	1.4760	1.4711	153-161	-166	-187	
	48629	8639	2.0	1.4696	1.4671	155-158	-160	-165	-195
	48630	8665	1.7	1.4758	1.4679	154-158	-160	-163	-175

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PART II—TURPENTINE.

ANALYSIS.

Refractive Index 20°C. of Fractions and Residues.				Volumes obtained from 100 cc.										No. of Sample.	Remarks and Opinion of the Chief Analyst.			
I.	II.	III.	IV.	Residual 10 cc.	Residual 25 cc.	Under 150 C.	150-154.	155-159.	160-164.	165-169.	170-174.	175°-179°.	180°-184°.			185°-189°.	190 and over.	
1 4544	1 4617	1 4658	1 4686	1 4818		5	24	48	13								50161	Genuine.
																	50162	"
																	50163	Not genuine.
																	50164	Genuine.
																	50165	"
																	50166	"
																	50167	"
1 4667	1 4684	1 4710			1 4986	8	21	29	12	4	3	2	2	0	9		50168	"
1 4556	1 4610	1 4629	1 4636	1 4725		6	19	27	16	9	5	3	2	2	3		50169	Contains petroleum.
1 4641	1 4676	1 4695	1 4738	1 5120		8	37	34	5	2	2	1	1				50170	Genuine.
																	95501	"
																	95502	"
																	95503	"
1 4683	1 4616	1 4630	1 4637	1 4728		4	24	31	17	5	4	3	2	1			95504	Contains petroleum.
1 4618	1 4649	1 4650	1 4637	1 4754		3	36	31	12	6	2						95505	"
																	95506	Genuine.
1 4684	1 4690	1 4697	1 4711	1 4887			67	19	4								95507	"
1 4694	1 4700	1 4707	1 4723	1 4875			82	8									95508	"
																	95509	"
																	95510	"
1 4678	1 4684	1 4690	1 4700	1 4821			82	8									95511	Doubtful.
																	95512	Genuine.
																	95513	Doubtful.
1 4690	1 4640	1 4660	1 4684	1 4968		6	19	29	9	3	2						95514	Contains petroleum.
1 4627	1 4653	1 4660	1 4642	1 4686		4	36	32	11	6	3	2	2	4			95515	"
																	95516	Genuine.
																	95517	"
																	95518	"
1 4643	1 4675	1 4691	1 4704	1 4830		8	12	29	26	10	4	1					95519	Wood turpentine.
																	95520	Genuine.
1 4675	1 4682	1 4694	1 4729	1 5084		5	12	30	5	4	2	1	1				47883	"
																	47885	"
																	47893	"
																	47896	"
																	48203	"
																	48210	"
1 4675	1 4682	1 4690	1 4704	1 4954			70	13	5	2							48218	"
																	48223	"
1 4664	1 4682	1 4690	1 4708	1 4977		2	30	23	5								48228	"
																	47863	"
																	47865	"
																	47872	"
																	47873	"
																	47879	"
																	48076	"
																	48090	"
																	48097	"
																	48099	"
1 4658	1 4664	1 4673	1 4685	1 4730		3	52	21	8	3	2	1					48621	Contains petroleum.
																	48622	Genuine.
1 4647	1 4660	1 4670	1 4675	1 4740			48	31	5	3	2	1					48623	Contains petroleum.
1 4629	1 4653	1 4664	1 4669	1 4762		3	26	45	6	4	2	1	1	2			48624	"
																	48625	Genuine.
1 4646	1 4665	1 4680	1 4700	1 4894		5	41	24	8	5	1	1	1	4			48626	Contains petroleum.
1 4663	1 4679	1 4685	1 4702	1 4936			48	32	6	2	2						48627	Genuine.
1 4676	1 4687	1 4704			1 4896	3	17	24	16	7	5	2	2	14			48628	Contains petroleum.
1 4640	1 4664	1 4687	1 4688	1 4829		3	46	29	6	3	2	2	1	1			48629	"
1 4654	1 4670	1 4680	1 4688	1 4815		3	47	30	7	3							48630	Not genuine.

Name of Inspectoral District.	No. of Sample.	Sp. Gr. 15.5°C.	Residue 10 cc. 40 cc. acid.	Ref. Index 20 C. Residue.	Ref. Index 20°C. Turpentine.	Boiling Point of Fractions from 100 cc.			
						1st 25 cc.	2nd 25 cc.	3rd 25 cc.	Next 15 cc.
						° °	° °	° °	° °
Calgary	44101	8694	2 2	1 4672	1 4664	155-158	..... - 160	..... - 164	..... - 188
	4410	8714	1 1	1 4916	1 4703	.....	.....	.....	.....
	44103	8708	9 9	1 5012	1 4709	.....	.....	.....	.....
	44104	8598	2 5	1 4684	1 4664	154-158	..... - 160	..... - 166	..... - 188
	44105	8648	1 8	1 4718	1 4678	154-158	..... - 159	..... - 162	..... - 179
	441 6	8690	8 8	1 4984	1 4700	154-158	..... - 158	..... - 159	..... - 164
	44107	8698	1 0	1 4895	1 4696	.....	.....	.....	.....
	44108	8599	2 0	1 4685	1 4668	153-158	..... - 160	..... - 164	..... - 187
	44109	86 8	2 0	1 4688	1 4674	154-159	..... - 160	..... - 166	..... - 194
	44110	8622	2 0	1 4705	1 4670	154-158	..... - 160	..... - 164	..... - 190
Nelson	4487	8218	7 7	1 50 7	1 4757	.....	.....	.....	.....
	4604	8660	1 1	1 4955	1 4700	.....	.....	.....	.....
	4604	8737	1 0	1 4964	1 4710	.....	.....	.....	.....
	4602	8698	9 9	1 5008	1 4700	.....	.....	.....	.....
	46032	8714	8 8	1 5068	1 47 0	.....	.....	.....	.....
	4603	8714	9 9	1 5000	1 470	.....	.....	.....	.....
	4 634	8667	1 6	1 4767	1 4678	155-158	..... - 158	..... - 163	..... - 174
	4636	8692	1 1	1 4994	1 4695	.....	.....	.....	.....
	49 37	8703	1 1	1 5016	1 4708	.....	.....	.....	.....
	49638	8716	1 1	1 5010	1 4708	.....	.....	.....	.....
Vancouver	382 5	8 07	4 4	1 4588	1 4648	152-160	..... - 167	..... - 185	..... - 235
	38 6	8759	1 0	1 4976	1 4 12	.....	.....	.....	.....
	38 7	8742	9 9	1 5020	1 4707	.....	.....	.....	.....
	3828	8722	9 9	1 5026	1 4700	.....	.....	.....	.....
	3829	8692	9 9	1 5054	1 4704	.....	.....	.....	.....
	8296	8724	1 1	1 5009	1 4704	.....	.....	.....	.....
	38291	8724	1 0	1 50 3	1 4 18	.....	.....	.....	.....
	38 92	8809	7 7	1 5003	1 4712	.....	.....	.....	.....
	38293	8720	1 0	1 5011	1 4703	.....	.....	.....	.....
	38294	8712	1 0	1 5000	1 4700	.....	.....	.....	.....
Victoria	49 20	8692	1 1	1 49 4	1 4701	.....	.....	.....	.....
	49121	8692	1 1	1 4986	1 4698	.....	.....	.....	.....
	49122	8697	9 9	1 4978	1 4700	.....	.....	.....	.....
	49123	87 4	9 9	1 4980	1 4 03	.....	.....	.....	.....
	4912	8692	1 1	1 4988	1 4708	.....	.....	.....	.....
	49125	8717	8 8	1 5018	1 4712	.....	.....	.....	.....
	491 6	8855	7 7	1 5036	1 4738
	49127	8730	1 0	1 4990	1 4706
	49128	8825	7 7	1 5044	1 4726
	4 12	8 92	8 8	1 50 0	1 47 0

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PART II—TURPENTINE.
ANALYSIS.

Refractive Index 20 C. of Fractions and Residues.				Values obtained from 100 cc.									No. of Sample.	Remarks and Opinion of the Chief Analyst.				
I.	II.	III.	IV.	Residual 10 cc.	Residual 25 cc.	Under 100 C	150 101.	155 159.	165 161.	165 166.	170 171.	175 179.			180 181.	180 189.	190 and over	
1 4637	1 4665	1 4674	4680	1 4782			50	27	5	4	2	1	1			44101	Contains petroleum.	
																	44102	Genuine.
																	44103	"
1 1 46	1 4664	1 4675	1 4680	1 4766			3	37	34	7	4	2	2	1			44104	Contains petroleum.
1 4659	1 466	1 4672	1 4685	1 4810			2	48	31	5	3	1					44105	"
1 4684	1 4690	1 4694	1 4710	1 4818			3	74	13								44106	Genuine.
																	44107	"
1 4650	1 4654	1 4670	1 4678	1 4726			3	47	29	8	4	2	1	1	1		44108	Contains petroleum.
1 4659	1 4670	1 4684	1 4686	1 4821			3	47	29	4	4	1	1	1			44109	"
1 4654	1 4670	1 4679	1 4683	1 4776			2	41	32	8	3	2	1	1			44110	"
																	48487	Genuine.
																	P9003	"
																	P9004	"
																	P9028	"
																	49612	"
																	P9633	"
1 4651	1 4660	1 4674	1 4683	1 4859			63	47	7	3							P9634	Not genuine.
																	P9636	Genuine.
																	P9637	"
																	P9638	"
1 4578	1 4619	1 4631	1 4694	1 4808			64	1	24	13	9	5	3	3	12		38285	Contains petroleum.
																	38286	Genuine.
																	38287	"
																	38288	"
																	38289	"
																	38290	"
																	38291	"
																	38292	"
																	38293	"
																	38294	"
																	49120	"
																	49121	"
																	49122	"
																	49123	"
																	49124	"
																	49125	"
																	49126	"
																	49127	"
																	49128	"
																	49129	"

APPENDIX R.

BULLETIN No. 254—BRAN, SHORTS AND CHOP FEED.

OTTAWA, May 20, 1913.

WM. HIMSWORTH, Esq.,

Acting Deputy Minister Inland Revenue.

SIR.—I have the honour to hand you a report upon 396 samples of feeds sold as bran, shorts or middings and chops.

These samples were purchased throughout Canada in September and October last; and may be taken fairly to represent the character of cattle feed offered under the above names.

As explained in Bulletin No. 231 (February, 1912), which contains a report of our last inspection of Unregistered Feeds, an Order in Council of May 3, 1911, requires these feeds to possess minimum values as below:—

	Proteids.	Fat.	Fibre.
	(minimum)	(minimum)	(maximum)
Bran	14	3	10
Shorts or Middlings	15	4	8
Chop.....	10	2	10

Although feeds of these classes are not required to be registered before being offered for sale, it is not forbidden that any manufacturer who believes his product to be notably better than the minimum legal requirements should register this and sell with a guarantee of quality. In such case the manufacturer must give some distinguishing name to the article, and not sell it simply as "Bran". He may name it "Smith's Bran", or "Jones' Bran", or he may devise a specific name for it. For purposes of the Act, the article then becomes a "Stock Feed" as defined by Sect. 2 (b) of the Act; and is amenable to the conditions of Sect. 2 (e) and Sect. 15. Thirty-eight samples of bran, shorts and chops among the 396 now reported are sold with a guarantee of value. It is, of course, proper that the manufacturer should be required to live up to any guaranteed value which he claims; and it may thus happen that a bran (for example) which would have passed as legal bran, if sold without any special claim of quality may be found deficient and technically adulterated because it fails to show the content of proteid matter or fat which the manufacturer claimed, and upon which, rather than upon the legal requirements for bran, it is judged.

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The following table gives a concise statement of the results of analysis of bran, shorts and chop feeds.

	Sold with a guarantee.		Sold without a guarantee.		Total.		
	Meets guarantee.	Below guarantee.	Genuine.	Below requirements.	Genuine.	Adult.	Sum.
Bran	8	4	121	2	129	6	135
Shorts or Middlings	1	3	127	8	128	11	139
Chop.....	16	6	91	9	197	15	122
Totals.....	25	13	339	19	364	32	396

In some cases the deficiency is very small and may be regarded as accidental. Sometimes the deficiency in one component is fully compensated by overplus in another, so that the purchaser of the feed is not defrauded except technically. As a rule the deficiency is most notable in cases where a guarantee of value is given, the manufacturer evidently basing his guarantee upon a higher analytical result than he has found it practicable to live up to. The following tables show in detail the deficiencies referred to. It is to be noted that our standards, as interpreted by section 15 of the Feeding Stuffs Act, 1909, provide for a deficiency of one per cent in proteids or fat or for an excess of two per cent fibre, if the total value of the feed is not impaired thereby.

FEEDS SOLD WITH A GUARANTEE AND FAILING TO MEET THIS.

BRAN.

Number.	Guarantee.			Below guarantee.		
	Proteids.	Fat.	Fibre.	Proteids.	Fat.	Fibre.
59481	16 82	5 50	10 86	1 86	0 82	
50488	16 82	5 50	10 86	1 73	0 88	
51616.....	16 82	5 50	10 86	2 48	1 30	
51471	16 82	5 50	10 86	1 90	1 38	

NOTE I.—The Western Canada Flour Mills Company, Goderich, writes as follows under date, April 2, 1913: We at one time did put out our bran under registration number and analysis, but later found that such was not necessary under the Act, and we therefore discontinued the practice.

All of the above samples meet legal requirements for bran; but they were sold under Registration No. 65, with the guarantee as given above.

SHORTS.

No.	Reg. No.	Guarantee.			Below Guarantee.		
		Proteids.	Fat.	Fibre.	Proteids.	Fat.	Fibre.
*39158.....	68	16 73	4 39	5 20	4 79	0 31	7 12
51483	63	18 38	6 02	7 99	1 94	1 56	
51617.....	63	18 38	6 02	7 99	1 76	1 36	

* Inspector Roubeau is uncertain regarding register number, probably 68 is intended. This judgment must be regarded as doubtful.

No. 51483 meets the standard for shorts, but fails to meet the guarantee. The same is true of No. 51617. No. 39158 falls much below the standard for shorts.

CHOP.

No.	Reg. No.	Guarantee.			Below guarantee.		
		Proteids.	Fat.	Fibre.	Proteids.	Fat.	Fibre.
50508	112	10.48	3.25	13.25	2.02	0.15	
50509	73	12.00	3.40	8.00	1.80		
39176	131	10.00	2.50	18.00	5.77	1.48	7.00
50954	50	11.00	2.50	16.00	2.78	0.88	
49260	138	18.00	5.00	10.00	2.56	0.60	1.1
19271		45.00	8.00		2.00		

FEEDS SOLD WITHOUT A GUARANTEE.

BRAN.

No.	Requirements.			Below Requirements.		
	Proteids.	Fat.	Fibre.	Proteid.	Fat.	Fibre.
50489	14	3	10	1.36		
48168	14	3	10	1.53		

SHORTS.

46896	15	4	8	1.22	0.18	....
46325	15	4	8	....	1.48	0.8
37253	15	4	8	2.88	2.40	3.1
37257	15	4	8	2.44	0.81	0.1
49676	15	4	8	1.22	1.96	....
38459	15	4	8	1.66	....	....
38461	15	4	8	1.19	....	....
49275	15	4	8	1.39	....	....

CHOP.

46872	10	2	10	1.11	....	....
37275	10	2	10	1.54	0.56	1.2
37280	10	2	10	2.45	0.38	5.1
39170	10	2	10	0.38	....	5.0
50952	10	2	10	....	....	2.6
49599	10	2	10	1.70	....	....
48132	10	2	10	1.54	....	....
49679	10	2	10	0.59	....	3.7
49681	10	2	10	0.45	....	8.2

SUMMARY OF THE FOREGOING, AS JUDGED UNDER THE TERMS OF THE ACT. GUARANTEED FEEDS.

No.	
50481 } 50488 } 51616 }	Are adulterated if held to meet the guarantee. Are genuine if sold as legal bran.
51471 } 39158 }	Adulterated.
5514 } 5516 }	Meet the standard for legal Shorts, but are adulterated if judged by manufacturer's claim.
50508 } 50509 }	Adulterated. Low proteids compensated by excess of fat.
39176 } 50954 }	Adulterated

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No.	
49260	Meets legal requirements for chop, but is adulterated under terms of guarantee.
49271	Is a special feed. The deficiency of 2 p.c. protein would be large for an ordinary chop, being 20 p.c. of the total protein required by law. The percentage of deficiency of protein in this feed is only about 4. It contains an excess of 0.44 fat above guarantee. It is doubtful if such a result would justify condemnation as adulterated.

FEEDS SOLD WITHOUT GUARANTEE

50480	Low proteins compensated by excess fat.
48168	"
46896	Adulterated.
46325	Low fat compensated by excess proteins.
37253	Adulterated.
37257	"
49676	Low fibre cannot be held to compensate for deficiency in both proteins and fat. Adulterated.
38459	Adulterated.
38464	" by a very narrow margin. Technical adulteration.
49275	Adulterated.
46872	Excess of fat compensates for low proteins.
37275	Adulterated.
37280	"
39170	" by excess of fibre.
50652	The excess of fibre is fully compensated by excess of proteins and fat.
49549	Excess of fat practically compensates deficiency of proteins.
48132	Adulterated.
49679	" by excess of fibre.
49681	Compensating value in excess of fat.

SUMMARY OF SAMPLES IN WHOSE CASES COMPENSATING VALUES DO NOT APPEAR; CONSEQUENTLY ARE ADULTERATED

50481	It required to meet the guarantee.
50488	"
51615	"
51471	"
39158	Adulterated.
51483	It required to meet the guarantee.
51617	"
50503	Adulterated.
39176	"
50654	"
49260	It required to meet the guarantee.
46896	Adulterated.
37253	"
37257	"
49676	"
38459	"
38464	Doubtful.
49275	Adulterated.
37275	"
37280	"
39170	"
48132	"
49679	"

So far as nutriment value is concerned, it therefore appears that only 23 samples out of 396, or less than 6 per cent of the collection, can be regarded as adulterated under the Act. Of this number, one sample is doubtfully amenable to the charge of adulteration; and 7 others, while failing to meet the manufacturer's claims, are found to meet the legal minimum values for the class of feed to which they belong. This leaves only fifteen (15) samples in whose regard no extenuating circumstances can be pleaded.

Even among these it will be found that the deficiencies are for the most part slight, and the report shows that bran, shorts and chop feeds are so far as their feeding value goes generally of good quality. Modern milling processes are so complex, and the natural desire of the manufacturer to work economically and to secure a maximum value from his grain is so great that with the fullest intention to bring his low priced products up to the legally required minima, it is inevitable that he should at times utter a sample below standard, unless he takes the precaution of checking his output by analysis.

FEED FLOUR.

In Bulletin No. 231 (page 5) I called attention to a variety of feeding stuff sold as shorts or middlings, but having characters which would seem to indicate that it is rather a low-grade flour than shorts or middlings, as these are generally known. The following quotation from Bulletin No. 231 explains this matter:—

“ A considerable number of samples, which appear to answer a description of low grade flour, were found in the above collection; but these were supplied indiscriminately as shorts or middlings, as indicated by the maxima for fibre and for fat, though most of them were sold as middlings.

“ In order to discover whether the present collection indicates any accepted distinction between the terms, I have collated the results for 72 out of 73 samples sold as shorts, and for 54 out of 68 samples sold as middlings, being in each case the number of samples respectively, which meet the requirements of legal definition.

“ Seventy-two (72) samples of shorts give results as follows:—

SHORTS.			
	Fat.	Proteids.	Fibre
Means.	4.65	16.20	6.3
Maxima.	6.48	18.46	8.0
Minima.	3.44	14.00	3.9

“ Fifty-four (54) samples of middlings give the following results:—

	Fat.	Proteids.	Fibre.
Means.	4.47	15.95	5.2
Maxima.	6.26	18.02	8.1
Minima.	3.02	14.13	1.4

“ The results appear to justify the conclusion that the article sold as shorts is not substantially different from the article sold as middlings; and this conclusion is corroborated by the expressed opinion of many millers, in answer to questions by our inspectors. At the same time it is to be noted that samples characterized by very low fibre, low fat and a high starch content (indicating flour), are usually sold as middlings, rather than as shorts.

“ Examples of this are found in the following:—

Number.	Fat.	Proteids.	Fibre.	—
46084	2.16	10.37	1.5	low in proteids and fibre.
36956	1.55	12.73	0.7	“ “ fat and fibre.
43271	2.08	12.51	0.8	“ “ “
43281	2.32	13.26	1.3	“ “ “
47413	2.66	15.11	1.9	“ fat and fibre.
47414	3.16	12.56	1.8	“ proteids and fibre.
38185	2.66	11.42	0.9	“ “ fat and fibre.
38189	2.02	12.03	0.5	“ “ “
47611	2.37	14.61	1.1	“ fat and fibre.
47618	1.98	13.04	0.8	“ “
47621	2.28	12.86	1.0	“ “

“ Feeds of this kind should be sold as feed-flour; or by some name which distinguished them from legal shorts or middlings. While they possess considerable value for feeding purposes, they must be regarded as adulterated under the Act when offered as shorts or middlings. Their low fibre content is an advantage from the point of view of nutritive value, since this is replaced by starch in amount equivalent to the difference between the legal maximum for fibre (8 per cent) and the actual fibre present.”

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"I am convinced that in none of the above listed samples is there any evidence of intended fraud. The irregularity is apparently due to ignorance of legal requirements for shorts (middlings), and a mistaken idea that a low grade flour is even better value, than middlings as usually understood. I feel justified in recommending that for this first inspection under the Feeding Stuffs Act, leniency be exercised towards the vendors, and their attention called, to the requirements of the Act."

It is matter for consideration whether G. 968 should not be amended by addition of this description of feed under the name "FEED FLOUR"; in such case it would be necessary to amend the Act in Section 2 (b), by exclusion of the term "FEED FLOUR" as a commercial feeding stuff requiring registration.

The standard for bran, shorts and chop feeds, as defined in G. 932, were amended on June 7, 1911, by the following clause: "And must be free from vital seeds of any of the noxious weeds defined by the Governor in Council under the Seed Control Act." (See G. 968).

Examination of all the samples herein reported as to their content in vital weed seeds has been made by the courtesy of the Department of Agriculture, through the office of the Seed Commissioner.

Samples were submitted to the Seed Commissioner on the twentieth of March, but this being the busiest season for that department of work, it was found impossible to report them until the 15th instant; which accounts for the considerable delay in issuing this Bulletin.

On that date, I received a very valuable and exhaustive report from the Seed Commissioner accompanied by the subjoined letter of explanation:

DEPARTMENT OF AGRICULTURE,

OFFICE OF THE SEED COMMISSIONER,

OTTAWA, May 15, 1913.

MR. A. MCGILL,

Chief Analyst,

Inland Revenue Department, Ottawa.

Dear Sir,— Herewith I am sending you six folios containing summary results of the analysis of the samples of brans, shorts, middlings and chop feeds submitted with your letter of March 20.

For your convenience, we have arranged these in consecutive order according to your laboratory test numbers. If and when you have occasion to refer to the analysis of any sample, I shall be obliged if you will kindly quote our laboratory test number.

We have not made germination test of any of the weed seeds enumerated to determine whether they are vital. We have, however, enumerated only those weed seeds which were found to be fully matured and in perfect condition; these we have assumed to be vital.

Nature has provided most kinds of noxious weed seeds with a hard or mucilagenous seed coat by which the germ may be protected, even though the seed may be exposed to the best possible conditions for germination; such weed seeds do not lend themselves readily to artificial methods for determining their percentage vitality.

From research work that has been done in our seed laboratory and elsewhere, however, we have good reason to believe that there are exceedingly few fully matured and uninjured seeds of plants that can properly be characterized as noxious weeds that are not capable of germinating. The fact that they cannot be forced to germinate until nature has prepared them for such is the principal factor that brings them within the category of noxious weeds and makes them so troublesome to farmers.

Yours very truly,

GEO. H. CLARK,

Seed Commissioner.

The subjoined table gives details of 65 samples of feeds which contain more than 25 vital seeds per pound.

No. of Sample.	Seeds per lb.	Class.	Manufacturer.	Address.	Feeding Value.
46873	112	Chop	Canada Cereal Co.	Toronto	O. K.
46874	80	"	Gunn & Co	Halifax	"
46875	43	"	"	"	"
46877	128	"	Ogilvie Mill. Co	Montreal	"
46880	432	"	Halifax	Halifax	"
46882	25	Bran	Ogilvie	Montreal	"
46894	32	Shorts	Unknown	"	"
46307	32	Bran	Ogilvie Mill. Co	Montreal	"
46314	96	"	"	"	"
46330	176	Chop	Can. Cereal Co	Toronto	"
46331	32	"	Ogilvie Mill. Co	Montreal	"
50493	512	Shorts	Dom. Flour Mills	"	"
50499	336	Middlings	Milling Co.	Woolverton	"
50503	32	Chop	Maynes & Riley	St. John, N.B.	"
50504	43	"	Ogilvie Mill. Co	Montreal	"
50506	80	"	"	"	"
50507	224	"	"	"	"
50508	32	"	Cereal Mill. Co.	Tillsonburg	Adulterated.
50509	320	"	Western F. M. Co	"	O. K.
37278	100	"	Ogilvie Mill. Co.	Montreal	"
39151	32	Bran	Western F. M. Co	"	"
39154	26	"	Robin Hood Mills.	"	"
39163	32	Shorts	St. Lawrence Mill. Co.	Montreal	"
39171	144	Chop	Cousens & Co.	St. Jean	"
50942	48	Shorts	West. Can. F. M. Co	"	"
50293	48	Chop	Sylvester & Son	Vankleek Hill	"
50294	48	Bran	Campbell Co.	Peterboro'	"
50298	352	Shorts	Quakers Oats Co	"	"
51618	64	Chop	West. Can. F. M. Co.	"	"
49590	52	"	Geo. Gibson	Kingston	"
49591	64	"	W. J. Peters	"	"
49593	48	"	W. M. F. Co.	"	"
49595	32	"	Anderson Bros.	Kingston	"
49506	112	"	"	"	"
49597	48	"	E. F. M. Brown	Washburn	"
51471	32	Bran	West. Can. F. M. Co	"	Doubtful.
51476	176	"	Dom. F. M. Co	Hamilton	O. K.
51479	640	"	Wood Mill. Co	"	"
51480	32	"	Seaforth Mill. Co.	Seaforth	"
51488	128	Shorts	Dom. F. M. Co	Hamilton	"
51489	64	"	Ogilvie Mill. Co	Montreal	"
51490	64	"	Unknown	"	"
51491	96	Chop	Campbell F. M. Co.	Toronto	"
51495	208	"	W. J. Baldwin	Aurora	"
51497	288	"	Dom. F. M. Co	Hamilton	"
48127	96	Bran	King Mill. Co	Sarnia	"
48132	48	Chop	A. J. Sutherland	London	Adulterated.
48134	96	Bran	Docter & Son.	"	O. K.
48165	32	Chop	R. M. Pincombe	Strathroy	"
48751	32	Bran	Lake of Woods Co	Portage la Prairie	"
49772	544	Chop	West. Can. F. M. Co	Brandon	"
48776	1,104	"	Ogilvie's	Winnipeg	"
48778	48	"	W. Can. F. M. Co	St. Boniface	"
49680	64	"	Brackman Ker Co	Strathcona	"
49682	48	Bran	Ellison Mill. Co	Lethbridge	"
38451	128	"	Yanc. Mill. Co	Vancouver	"
38454	32	"	Robin Hood Co.	Moosejaw	"
38469	48	Chop	F. T. Vernon	Vancouver	"
38470	112	"	Brackman Ker Co	New Westminster	"
38471	64	"	McLellan & McCaster	Vancouver	"
38473	80	"	Brown & Hovey	"	"
38475	432	"	A. E. Burnett & Co.	"	"
49265	32	Shorts	Lake of Woods Co	Portage la Prairie	"
49272	112	Bran	Robin Hood Co.	Calgary	"
49280	256	"	Ogilvie Mills	Winnipeg	"

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From the above table it is seen that 62, perhaps 63, out of the 65 samples recorded as containing more than 25 vital weed seeds per pound are of satisfactory value as regards the nutritive values of the feeds. This does not prevent them from being judged as adulterated, provided that the limit number of 25 vital weed seeds per pound be held justifiable. From a study of all the work bearing upon this subject to which I have access, I am convinced that the limit suggested is quite liberal.

Thirty-seven samples are sold as chop, 18 samples as bran and 10 samples as shorts or middlings. It is to be expected that if unground weed seeds are to be found in cattle feeds they should appear in chop or in bran. They should not apparently be found in shorts or middlings because this product is supposed to represent only the result of such fine grinding as should ensure the destruction of the seeds by comminution. It would seem that whole weed seeds could only appear in shorts or middling by purposeful addition of waste or 'screenings.'

It is evident from this study that purchasers of stock feeds have little ground for complaint as regards the feeding value of these goods.

On the other hand, they contain very notable amounts of vital weed seeds, and, in the light of present knowledge are in my opinion adulterated when such contamination exceeds 25 seeds per pound.

The practice of adding 'screenings' or 'offal' to bran, shorts and chop is very objectionable, and unless the 'screenings' have been ground so fine as to destroy the vitality of the weed seeds contained must be held to be a violation not only of the Adulteration Act, but, in spirit at least, a violation of the Seed Control Act.

I beg to recommend publication of this report as Bulletin No. 254.

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.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA—

1912.								
Sept. 11	Chop Feed.	46871	Wentzells Ltd., Halifax, N.S.	3 lbs.	Nil.	Quaker Oats Co., Peterboro, Ont.	Mfrs.	Registration No. 113.
" 23	"	46872	Quaker Oats Co., Agency, N.S.	3 "	"	"	"	"
" 24	"	46873	S. P. Goudy, Yarmouth, N.S.	3 "	"	Canada Cereal Co., Toronto.	E. Allen, Yarmouth, N.S.	"
Oct. 2	"	46874	Gunn & Co., Halifax, N.S.	3 "	"	Vendors.	"	Pig Feed.
" 2	"	46875	"	3 "	"	"	"	"O & B" Chop
" 3	"	46876	C. B. McMullen, Truro, N.S.	3 "	"	"	"	"Special" Br'd
" 3	"	46877	R. McG. Archibald, Truro, N.S.	3 "	"	Ogilvie M. Co., Montreal.	Mfrs.	"Hercules Brand."
" 3	"	46878	Colchester Co. Co-op. Assn., Truro, N.S.	3 "	"	Quaker Oats Co., Peterboro.	"	"Banner" Feed Marked registered but number not given on bag.
" 5	"	46879	H. C. Barnaby & Sons, Bridgewater, N.S.	3 "	"	"	"	"Schumacher" No. 13.
" 8	"	46880	F. A. Shaw, Halifax, N.S.	3 "	"	Halifax M. M. Co., Halifax, N.S.	"	Crushed oats.
Sept. 11	Bran.	46881	Wentzells Ltd., Halifax, N.S.	3 "	"	Lake of the Woods M. Co., Toronto.	"	"
" 19	"	46882	J. D. Stewart, Halifax, N.S.	3 "	6	Ogilvie M. Co., Montreal.	"	"
" 20	"	46883	I. B. Shaffner & Co., Halifax, N.S.	3 "	Nil.	Western F. M., Toronto.	"	No. 66.
" 20	"	46884	Estate of H. W. Brown, Halifax, N.S.	3 "	"	Canada F. Mills, Chatham, Ont.	I. B. Shaffner Co., Halifax, N.S.	"
" 24	"	46885	S. P. Goudy, Yarmouth, N.S.	3 "	"	Maple Leaf Mills, Toronto.	Cochrane & Burns, Boston, Mass.	"
" 25	"	46886	Shand Bros., Windsor, N.S.	3 "	"	Quaker Oats Co., Peterboro.	Mfrs.	"
" 26	"	46887	F. W. Fraser, Halifax, N.S.	3 "	"	Peterboro Cereal Co., Peterboro.	"	"
" 26	"	46888	F. A. Shaw, Halifax, N.S.	3 "	"	Maple Leaf Mills Co., Toronto, N.S.	I. B. Shaffner Co., Halifax, N.S.	"
" 27	"	46889	Gunn & Co., Halifax, N.S.	3 "	"	Shaak & Snider, Ontario.	Mfrs.	"
" 27	"	46890	G. A. Redmond Co., Dartmouth, N.S.	3 "	"	Maple Leaf Mills Co., Toronto.	"	"

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BRAN, SHORTS, CHOP FEED.

Proceeds.	Claim.		Results of Analysis.			No. per lb.	Chiefly.	No. of Sample	Remarks and Opinion of the Chief Analyst.
	Fat	Fibre.	Proteids.	Fat Direct.	Fibre.				
	10.33	3.29	10.5	11.48	3.66	3.4		6871 Meets guarantee.	
				8.89	3.06	7.3		6872 Practically up to standard by compensating fat.	
			10.60	4.36	4.6		112 Wild Oats, False Flax, Canada Thistle, Wild Mustard.	6873 Genuine as to food value.	
				9.83	3.42	3.2	80 Wild Oats, Ball Mustard.	6874	
			10.15	4.28	5.2		43 Wild Oats, Wild Mustard.	6875	
				9.55	4.64	7.8	11 Wild Oats.	6876	
			10.36	4.26	4.3		128 Wild Oats, Ball Mustard, Wild Mustard.	6877	
8.50	3.50	9.00	8.82	3.48	6.3			6878 Meets guarantee.	
10.50	4.00	10.50	9.94	2.30	9.2			6879	
				11.97	3.84	11.7	432 Wild Mustard, Canada Thistle, False Flax, Stink Weed.	6880 Genuine as to food value although weed seeds.	
				15.00	4.62	9.2		6881 Genuine.	
			14.43	4.62	9.0		25 Wild Oats.	6882 as to food value.	
16.82	5.50	10.86	15.62	5.02	8.1		3 Wild Oats.	6883 Meets guarantee.	
				14.61	4.32	8.0		6884 Genuine.	
				15.35	4.68	7.0		6885	
				16.63	4.88	6.1		6886	
				14.78	4.48	9.4		6887	
				14.48	4.38	8.1		6888	
			15.22	4.42	8.9		10 Wild Oats, Rag Weed.	6889	
				14.44	4.16	8.4		6890	

R. J. WAUGH, INSPECTOR.

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

DISTRICT OF NOVA SCOTIA—

1912.								
Sept. 11	Shorts.	46891	Wentzels Ltd Halifax, N.S.	3 lbs.	Nil.	W. F. Taylor Co., Chatham, Ont.		
" 19	"	46892	J. D. Stewart, Halifax, N.S.	3 "	6	Ogilvie M. Co., Montreal.	Nelson & Hart, Halifax, N.S.	
20	"	46893	I. B. Shaffner & Co., Halifax, N.S.	3 "	Nil.	" "	Mfrs.	
" 20	"	46894	Estate of H. W. Brown, Halifax, N.S.	3 "	"	Unknown	J. B. Shaffner Co., Halifax, N.S.	
" 24	"	46895	S. P. Gondy, Yar mouth, N.S.	3 "	"	Ogilvie M. Co., Montreal.	Mfrs.	
" 25	"	46896	Shand Bros., Wind- sor, N.S.	3 "	"	Quaker Oats Co., Peterboro.	"	
" 26	"	46897	F. W. Fraser, Hal- ifax, N.S.	3 "	"	Campbell F Mills, Toronto	"	
" 26	"	46898	F. A. Shaw, Hali- fax, N.S.	3 "	"	Unknown	J. B. Shaffner Co., Halifax, N.S.	
" 27	"	46899	Gunn & Co., Hali- fax, N.S.	3 "	"	T. H. Taylor Co. Chatham, Ont.	Mfrs.	
" 27	"	46900	G. A. Redmond & Co., Ltd., Dart- mouth, N.S.	3 "	"	Dom. F. Mills, Co., Brantford, Ont.	"	

DISTRICT OF PRINCE EDWARD ISLAND—

Sept. 6	Bran	46307	A. Horne & Co., Ch. Town, P.E.I.	3 lbs.	6	Ogilvie's Mont- real.		
" 13	"	46308	Auld Bros., Ch Town, P.E.I.	3 "	6	Dom. F. Mills, Montreal.		
" 17	"	46309	Geo. Forbes, Ver- non River Bridge P.E.I.	3 "	6	Canada F. Mills, Chatham, Ont.		
" 23	"	46310	F. L. McNutt, Ch. Town, P.E.I.	3 "	6	"	G. H. Toombs, Ch. Town, P.E.I.	
" 23	"	46311	The P.E.I. Hay & Produce Co., Ltd. Ch. Town, P.E.I.	3 "	6	The Woodburn M. Co., Glencoe, Ont.		
" 23	"	46312	R. E. Mutch & Co., Ch. Town P.E.I.	3 "	6	E. A. Barry, Montreal.		
" 27	"	46313	Carvell Bros, Ch Town, P.E.I.	3 "	6	Ogilvie's, Mont- real.		
Oct. 1	"	46314	Brace McKay & Co. Summerside, P.E.I.			"		
" 3	"	46315	J. J. Hughes, Souris, P.E.I.	3 "	6	Taylor's, Chat- ham, Ont.		
" 3	"	46316	A. Currie, Souris, P.E.I.	3 "	8	Campbell M. Co., Toronto Jet, Ont.		

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BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
<i>Concluded.</i>									
100.	100.	100.	p.c.	p.c.	p.c.				
		.....	15.13	4.74	7.3			46891	Genuine.
		.....	15.57	4.62	6.4	19	Clampsons, Wild Oats	46892	
		.....	15.92	4.56	5.9			46893	
			15.89	4.78	5.8	32	Wild Mustard, Hares Ear Mustard.	46894	Genuine as to food value.
			16.23	4.90	5.0			46895	
		.....	13.78	3.82	6.5			46896	Low in proteids. Adulterated.
			15.80	5.12	7.7			46897	Genuine.
		.....	16.23	4.72	5.8	4	Ball Mustard	46898	
			15.18	4.38	4.7			46899	
			15.88	4.31	4.5			46900	
WM. A. WEEKS, INSPECTOR.									
.....			14.35	4.34	9.9	32	False Flax, Stink weed.	46307	Genuine as to food value.
.....			13.96	4.56	9.4			46308	Genuine.
.....			14.17	3.62	9.1			46309	
.....			15.09	3.52	9.9			46310	
.....			14.96	4.78	8.9			46311	
.....			14.57	5.12	9.8			46312	
.....			15.05	4.78	9.0			46313	
.....			14.13	4.24	9.3	96	Wild Oats, Wild mustard.	46314	Genuine as to food value.
.....			13.30	4.24	9.1			46315	Genuine.
.....			14.92	4.42	8.7			46316	

Date of Collection.	Nature of Sample.	Nature of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF PRINCE EDWARD ISLAND—

1912.								
Sept.	13	Shorts.	46317 A. Horne & Co., Ch. Town, P.E.I.	3 lbs.	6	Taylor, Chatham Ont.		
"	13	"	46318 Auld Bros., Ch. Town, P.E.I.	3 "	6	Dom. F. Mills, Montreal.		
"	17	"	46319 Geo. Forbes, Vernon River Bridge P.E.I.	3 "	6	Canada F. Mills, Chatham, Ont.		
"	23	"	46320 F. L. McNutt, Ch. Town, P.E.I.	3 "	6		G. H. Toombs, Ch. Town, P.E.I.	
"	23	"	46321 The P. E. I. Hay & Produce Co., Ch. Town, P.E.I.	3 "	6		Auld Bros., Ch. Town, P.E.I.	
"	27	"	46322 Carvell Bros., Ch. Town, P.E.I.	3 "	6	Shirk & Snider, Bridgeport, Conn.		
Oct.	1	"	46323 Sinclair & Stewart, Summerside, P.E.I.	3 "	6	The J.W. Campbell Co., St. Thomas, Ont.		
"	1	"	46324	3 "	6	Ogilvie M. Co., Montreal.		
"	3	"	46325 J. J. Hughes, Souris, P.E.I.	3 "	6	Taylor's, Chatham, Ont.		
"	3	"	46326 Mathew & McLean, Souris, P.E.I.	3 "	6	Empire M. Co., St. Thomas, Ont.		
Sept.	17	Chop Feed	46327 George Forbes, Vernon River Bridge, P.E.I.	3 "	8	Canada F. Mills, Chatham, Ont.		
"	23	"	46328 F. L. McNutt, Ch. Town, P.E.I.	3 "	9		J. A. Farquharson & Co., Ch. Town, P.E.I.	
"	23	"	46329 The P.E.I. Hay & Produce Co., Ch. Town, P.E.I.	3 "	6	P.E.I. Farmer	Unknown	
"	25	"	46330 Auld Bros., Ch. Town, P.E.I.	3 "	6	Canada Cereal Co., Toronto.		
Oct.	1	"	46331 Sinclair & Stewart, Summerside, P.E.I.	3 "	6	Ogilvie M. Co., Montreal.		
"	3	"	46332 Mathew & McLean, Souris, P.E.I.	3 "	8	Johnson & Mc- Donald, New Glasgow, N.S.		
"	3	"	46333 Sterns Bros., Souris, P.E.I.	3 "	8	Atlantic M. Co., Pictou, N.S.		

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Wood Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteins	Fat.	Fibre.	Proteins.	Fat Direct.	Fibre.	No. per lb.	Chiefly		
			16.97	4.58	4.3			46317 Genuine	
			15.22	4.22	4.5			46318	
			16.19	4.92	7.2			46319	
			16.80	3.92	4.4			46320	
			16.58	4.22	4.1			46321	
			16.44	4.44	3.4			46322	
			16.27	4.66	5.8			46323	
			16.06	4.76	3.4			46324	
			16.63	2.52	8.8	16 Champions		46325	Low in fat. Compensated by excess proteins.
			15.44	4.26	3.9			46326 Genuine	
			9.20	3.24	1.6			46327	
			8.95	2.80	1.4			46328	
			12.04	4.48	8.9			46329	
			10.50	3.38	2.6	176 Wild oats, wild mustard, Harro's Ear mustard.		46330	as to food value.
			11.09	6.54	4.0	32 Great Ragweed, Wild Oats.		46331	
			9.71	3.60	1.7	1 Wild oats		46332	
			9.04	4.04	1.7			46333	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NEW BRUNSWICK—								
1912.								
Sept. 14	Bran	50480	C. H. Peters Sons Ltd., St. John, N.B.	3 lbs.	10	Quaker Oats Co., Peterboro, Ont.		"Bell Cow" Brand.
" 16	"	50481	James Collins, John, N.B.	3 "	10	Western F. M. Co., Ltd., Canada.		Protein 18.82% Fat 5.5% Fibre 10.88%
" 17	"	50482	P. Nase & Son, John, N.B.	3 "	10	Maple Leaf M. Co., Ltd., Toronto, Ont.		"Maple Leaf" Brand.
" 17	"	50483	L. C. Prime & Co., Ltd., St. John, N.B.	3 "	10	The Jas. Goldie Co. Ltd., Guelph, Ont.		
" 25	"	50484	St. Martin's Trading Co., Ltd., St. Martin's, N.B.	3 "	10	Sask. M. Co., Ltd., Moose-jaw, Sask.		"Robin Hood" Crude Protein 16.25% Fat 5.2% Crude Fibre 9.8%
" 25	"	50485	J. & J. S. Titus, St. Martin's, N.B.	3 "	10	Dom. F.M., Ltd., Montreal.		Labelled Pure Bran Feed.
Oct. 4	"	50486	Strong & Nodden, Woodstock, N.B.	3 "	10	Maple Leaf M. Co., Ltd., Toronto, Ont.		"Maple Leaf" Brand.
" 5	"	50487	B. Beveridge, Dover, N.B.	3 "	10	Canada C. & M. Co., Tillsonbury, Ont.		
" 17	"	50488	D. & J. Ritchie, Newcastle, N.B.	3 "	10			Registration No. 66. Protein 16.82% Fat 5.5% Fibre 10.88%
" 18	"	50489	J. B. Snowball Co., Ltd., Chatham, N.B.	3 "	10	The Tavistock M. Co., Ltd., Tavistock, Ont.		
Sept. 14	Shorts	50490	C. H. Peters Sons Ltd., St. John, N.B.	3 "	10	Maple Leaf M. Co., Toronto, Ont.		"Maple Leaf" Brand.
" 16	"	50491	Jas. Collins, John, N.B.	3 "	10	Quaker Oats Co., Peterboro, Ont.		"Bell Cow" Brand.
" 17	"	50492	P. Nase & Son, John, N.B.	3 "	10		W. F. Barnhill, Fairville, N.B.	National Brand
" 17	"	50493	L. C. Prime & Co., Ltd., St. John, N.B.	3 "	10	Dom. F. Mills, Ltd., Montreal		
Oct. 3	"	50494	M. E. Doohan, Fredericton, N.B.	3 "	10	The Campbell M. Co., West Toronto, Ont.		"Bull Rush" Brand.
" 3	"	50495	G. T. Whelpley, Estate, Fredericton, N.B.	3 "	10	Lake of the Woods M. Co., Montreal.		
" 4	"	50496	Strong & Modden, Woodstock, N.B.	3 "	10	Maple Leaf M. Co., Ltd., Toronto, Ont.		"Maple Leaf" Brand.

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.		Results of Analysis				Vital Wood Seeds.		Chiefly.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.			
			11.65	4.40	8.3			50180 Genuine.	
16.82	5.50	10.80	11.96	4.68	8.2			50181 Below guarantee in proteids. See Note 1, p.	
			15.27	4.52	6.4			50182 Genuine.	
			14.39	4.34	8.5			50183	
16.25	5.20	9.80	17.28	4.44	8.4	5 Hare's Ear mustard.		50184 Meets guarantee.	
			13.96	4.60	9.5			50185 Genuine.	
			15.18	4.20	7.4			50186	
			14.13	4.68	8.7			50187	
16.82	5.50	10.80	15.09	4.62	8.8	17 Sticksseed, Wild oats, Stinkweed.		50188 Below guarantee in proteids, but doubtful identification of the brand. Meets requirements for legal brand. See note 1.	
			12.64	4.34	10.0			50189 Low in proteids, but excess of 1.34 per cent fat compensates.	
			16.06	4.22	5.9			50190 Genuine.	
			16.44	4.16	6.5			50191	
			15.92	5.00	4.4	11 Wild Mustard, Hare's Ear Mustard.		50192	
			14.70	4.02	3.2	512 Tumbling Mustard.		50193 " " as to food value high in wood seeds.	
			16.49	4.50	5.7	24 Stink Weed, Wild Mustard, Hare's Ear Mustard.		50194	
			16.78	4.46	4.6			50195 Genuine.	
			15.92	4.20	5.1			50196	

J. C. FERGUSON, INSPECTOR.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NEW BRUNSWICK—								
1912.								
Oct.	5 Shorts.	50497	E. Beveridge, Am- dover, N.B.	3 lbs.	10	Canada C. & M. Co., Tillson- burg, Ont.		
"	17 Middlings	50498	D. & J. Ritchie, Newcastle, N.B.	3 "	10	Dom. F. Mills, Ltd.		
"	18 "	50499	J. E. Snowball Co., Ltd., Chatham, N.B.	3 "	10	The Wolverton M. Co., Ltd., Wolverton, O.		
Sept.	14 Chop Feed.	50500	C. H. Peters Sons, Ltd., St. John, N.B.	3 "	10	Maynes & Riley Mills, City Road, St. John, N.B.		Cracked Corn & Oats.
"	16 "	50501	James Collins, St. John, N.B.	3 "	10	Quaker Oats Co., Peterboro, Ont.		"Eanner" Brand.
"	17 "	50502	P. Nase & Son, St. John, N.B.	3 "	10	Steen Bros., St. John, N.B.		
"	19 "	50503	Maynes & Riley, Ltd., St. John, N.B.	3 "	10	Vendors		
Oct.	3 "	50504	John Gibson & Son, Fredericton, N.B.	3 "	10	Ogilvie F. M. Co., Montreal.		Puritan Brand
"	4 "	50505	J. M. Fripp, Medax- makeg F. Mills, Woodstock, N.B.	3 "	10	Vendor		Product of Na- tive Buck- wheat, whole contents of grain, except outer hull.
"	7 "	50506	J. W. McPhail, Perth, N.B.	3 "	10	Ogilvie M. Co., Ltd., Montreal		"Puritan" Brand.
"	15 "	50507	Sussex Mercantile Co., Ltd., Sussex, N.B.	3 "	10	"		"Hercules" Brand.
"	16 "	50508	Toombs & Son, Moncton, N.B.	3 "	10	Canada C. & M. Co., Ltd., Til- sonburg, Ont.		"Edinboro" Chop.
"	16 "	50509	Reed & Co., Ltd., Moncton, N.B.	3 "	10	Western F. M. Co., Ltd.		"Jockey" Feed, Reg. No. 73. Pro- tein 12.0 Fat 3.4 p. c. Crude Fibre 8.0 p. c.
DISTRICT OF QUEBEC—								
Sept.	5 Bran	37252	N. Cantin, 133 Rue du Pont, Quebec	3 lbs.	10	Unknown	P. T. Busiere & Cie.	
"	5 Shorts	37253	" " "	3 "	10	"	"	
"	16 "	37254	Hamel & Bedard, 728 Rue St. Val- ier, Quebec.	3 "	6	"	"	
"	16 Bran	37255	" " "	3 "	6	"	"	

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim		Results of Analysis.				Vital Weed Seeds.		Chiefly	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.				
J. A. FERGUSON, INSPECTOR. <i>Continued</i>										
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.					
			16.80	4.90	5.7				50497	Genuine
			17.50	4.82	5.1				50498	"
			14.78	4.24	4.9	336	False Flax		50499	" as to food value very high in weed seeds.
			9.74	3.82	2.8	5	Wild Oats, Ball Mustard.		50500	Genuine
8.50	3.50	9.60	8.76	2.48	7.3	3	Struckseed		50501	Meets guarantee
			9.49	3.52	3.9				50502	Genuine
			9.80	3.74	3.8	32	Wild Oats		50503	" as to food value
9.50	4.00	6.50	9.27	3.44	8.1	43	Wild Oats		50504	Meets guarantee as to food value
			10.30	2.48	4.6				50505	Genuine
9.50	4.00	6.50	9.54	4.74	7.9	80	Wild Oats		50506	Meets guarantee as to food value.
			9.80	4.04	4.5	224	Docks, False Flax, Wild Oats, Ball Mustard, Hair's Ear Mustard.		50507	Genuine as to food value.
10.48	3.25	13.25	8.46	3.10	12.8	32	Wild Oats		50508	Low in proteids, as guaranteed adulterated
12.00	3.40	8.00	10.20	4.82	6.7	320	Champions, False Flax, Stink Weed, Hair's Ear Mustard		50509	Below guarantee in proteids compensating fat excess 1.42 p.c., very high in weed seeds.
E. X. W. E. BELAND, INSPECTOR.										
			11.39	4.42	7.9				37252	Genuine.
			12.12	4.60	11.1	2	Wild Oats		37253	Low in proteids and fat Adulterated.
			11.44	4.50	7.3	9	Wild Mustard		37254	Genuine.
			16.49	3.76	3.2				37255	"

Date of Collection.	Nature of Sample.	Nature of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF QUEBEC—								
1912.								
Sept. 17	Bran	37256	J. Rochette, 7 Rue D. Eliguy, Quebec.	3 lbs.	10	Unknown	J. B. Reneaud & Cie.	
" 16	Shorts	37257	" " "	3 "	12	"	"	
" 18	Bran	37258	M. Boyce & Son, 1921 Cote D'Abraham, Quebec.	3 "	9	"	P. J. Busiere, Quebec.	
" 19	"	37259	Jos. Boiteau, 27 Rue Sutherland, Quebec.	3 "	10	"	J. B. Reneaud	
" 20	"	37260	G. Tanguay, Rue St. Paul, Quebec	3 "	Nil	St. Lawrence M. Flour Mills, Quebec.	Mfrs.	
" 20	Shorts	37261	" " "	3 "	"	Maple Leaf M Co.	St. Lawrence Flour Mills,	
" 20	Bran	37262	W. Carrier et fils, 108 Rue Dalhousie, Quebec.	3 "	"	Ogilvie's, Montreal.	Mfrs.	
" 20	Shorts	37263	" " "	3 "	"	" " "	"	
" 20	Bran	37264	P. G. Busiere, Rue Dalhousie, Quebec.	3 "	"	" " "	"	
" 20	Shorts	37265	" " "	3 "	"	Maple Leaf M Co.	"	
" 20	Chop Feed	37266	" " "	3 "	"	Vendor	"	
" 20	Bran	37267	D. E. Drolet, Rue Dalhousie, Quebec.	3 "	"	Lac Des Bois.	Mfrs.	
" 20	Shorts	37268	" " "	3 "	"	Ogilvie's, Montreal.	"	
" 23	Bran	37269	J. E. Hall, 84 Rue Richardson, Quebec.	3 "	"	St. Lawrence Co.	"	
" 23	Shorts	37270	J. E. Drolet, 143 Rue du Pont, Quebec.	3 "	"	Maple Leaf M Co.	Kirouack et fils.	
" 23	"	37271	Vezeina & Filion, Rue du Pont, St. Roch Nord, Quebec.	3 "	"	Dom. Flour Mills.	Mfrs.	
" 23	Chop Feed	37272	" " "	3 "	"	Vendors	"	
" 23	Shorts	37273	Begin & frere, 67 Rue St. Roch, Quebec.	3 "	"	Maple Leaf Flour M. Co.	Mfrs.	
Oct.	8 Moule Avoine.	37274	J. B. Reneaud & Cie, Quebec.	"	"	F. Goulet, Beauport.	"	
"	8 Moule Kamoat.	37275	"	3 "	"	Lake of the Woods M. Co., Montreal.	"	
"	8 Moule Shorts.	37276	"	3 "	"	Maple Leaf Co.	"	

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly		
<i>Continued.</i>									
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			14.22	4.94	10.7	21	Edge Flax, Hare's Ear Mustard.	37256	Genuine.
			12.56	3.19	8.1			37257	Low in proteids. Adulterated.
			11.74	4.44	8.5	11	Campions, Stink-Wood.	37258	Genuine.
			14.83	4.70	9.0	10	Wild Oats.	37259	
			14.71	5.14	9.0		Campions.	37260	
			15.75	4.28	5.6			37261	
			14.44	4.40	9.5			37262	
			16.81	4.24	5.4			37263	
			16.49	4.72	6.2	6	Hare's Ear Mustard.	37264	
			16.14	4.90	6.0	6	Campions.	37265	
			15.31	4.58	8.5	5	Great Ragweed.	37266	
			15.71	4.50	9.6			37267	
			16.80	5.46	3.1			37268	
			14.57	4.76	9.7			37269	
			15.88	4.04	5.4			37270	
			14.70	3.56	4.7			37271	
			10.29	4.88	9.2			37272	
			16.19	4.02	4.7			37273	
			9.88	4.66	11.2			37274	
			8.46	1.44	11.2			37275	Low in proteids. Adulterated.
			16.97	5.28	6.2			37276	Genuine.

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

DISTRICT OF QUEBEC—

1912.								
Oct.	8 Moulé Middlings.	37277	J. B. Renaud & Cie., Quebec.	3 lbs.	Nil.	Ontario Flour Manufacturers Mills.		
"	8 Eureka Feed.	37278	"	3 "	"	Ogilvie F. Mills, Montreal.		
"	8 Barley Feed.	37279	"	3 "	"	"		
"	9 Moulé Avoine.	37280	N. Bertrand, 685 Rue St. Valer, Quebec	3 "	"	Vendor		
"	9 Moulé Mele.	37281	"	3 "	"	Unknown	Julien et Cie, Quebec.	

DISTRICT OF ST. HYACINTHE—

Sept.	16 Bran	39145	E. Dionne, St Bonaventure.	3 lbs.	Nil.	Ogilvie M. Co., Montreal.		
"	17 "	39146	D. Parent, Yama-ka West.	3 "	"	St. Lawrence M. Co., Montreal.		
"	18 "	39147	C. Roberge, Sorel.	3 "	"	Lake of the Woods M. Co., Montreal.		
"	19 "	39148	H. De la Barre, Lack St. Ours.	3 "	"	Vendor		
"	24 "	39149	Chas. R. Cousins & Co., St. Jean.	3 "	"	Dom. F. Mills, Ltd., Brantford.		
"	25 "	39150	Ed. Brosseau, Henryville.	3 "	"	St. Lawrence M. Co., Montreal.		
Oct.	1 "	39151	Fuller & Wright, Sherbrooke.	3 "	"	Western Canada Flour Mills Co.		
"	4 "	39152	G. E. Reed, North Hatley.	3 "	"	The Quaker Oats Co., Peterboro		
"	8 "	39153	J. Dupaul, Valcourt Ely.	3 "	"	St. Lawrence M. Co., Montreal.		
"	8 "	39154	E. Rogers, Eastman.	3 "	"	Robin Hood Mills, Ltd.		Protein 16.26%; Fat 5.2%; Fibre 9.8%.
Sept.	16 Shorts	39156	N. Simard, St. Germain de Grantham.	3 "	"	Maple Leaf M. Co.	Lake of the Woods M. Co., Montreal.	
"	17 "	39157	G. D. Tremblay, Pierreville Mills.	3 "	"		Laperrière & fils, Pierreville.	
"	17 "	39158	L. Descheneau, Pierreville Mills.	3 "	"	West. Canada F. Mills Co.		Registered No. 66 as best as I could read.
"	17 Middlings.	39159	"	3 "	"	Maple Leaf M. Co., of Canada		
"	17 Shorts.	39160	D. Parent, Yama-ka West.	3 "	"		E. Benoit & fils, Montreal.	

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Samples.	Remarks and Opinion of the Chief Analyst.
Proteids	Fat.	Fibre.	Proteids	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
<i>Concluded.</i>									
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
.....	15.09	4.26	5.9	3	Wild oats.	37277	Genuine.
9.50	4.50	13.0	8.72	3.68	15.3	100	Wild oats, Wild mus. tard.	37278	Meets guarantee as to food value.
.....	9.45	3.86	9.5	4	Wild oats.	37279	Genuine.
.....	7.55	1.62	15.4	3	Wild oats.	37280	Low in proteids, high fibre. Adulterated.
.....	10.89	3.36	7.7	.....	.....	37281	Genuine.
J. C. ROULEAU, INSPECTOR.									
.....	14.88	4.60	8.3	.....	.....	39145	Genuine.
.....	13.09	4.50	9.1	19	Camphors. False flax.	39146	.....
.....	15.09	4.58	7.5	.....	.....	39147	.....
.....	17.94	4.58	9.4	.....	.....	39148	.....
.....	14.00	4.64	8.8	.....	.....	39149	.....
.....	14.48	4.84	9.2	.....	.....	39150	.....
.....	15.57	4.30	8.8	32	Wild oats.	39151	Genuine as to food value.
.....	14.57	4.68	8.6	.....	.....	39152	Genuine.
.....	14.48	4.94	9.7	.....	.....	39153	.....
16.26	5.20	9.80	15.18	4.72	8.8	26	Stickseed. Wild oats.	39154	Meets guarantee as to food value.
.....	16.14	4.52	3.2	.....	.....	39156	Genuine.
.....	16.60	4.60	4.7	.....	.....	39157	.....
16.82	5.50	10.86	11.94	4.08	12.3	.....	.....	39158	Low in proteids, either as guaranteed or as legal shorts. Adulterated.
.....	15.40	4.08	4.7	.....	.....	39159	Genuine.
.....	15.71	3.50	1.3	.....	.....	39160	.....

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF ST. HYACINTHE—								
1912.								
Sept. 18	Special Middlings	39161	C. Roberg., Sorel.	3 lbs.	Nil	Lake of the Woods M. Co., Montreal.		
" 18	Shorts.	39162	U. St. Jean, Com- treceur.	3 "	"	Swan Lake Flour Mills Co.		
" 25	"	39163	E. L. Brosseau, Henryville.	3 "	"	St. Lawrence M. Co., Montreal.		
" 25	Middlings.	39164	"	3 "	"	"		
Oct. 2	Shorts.	39165	Ed. Durand, Me- gantic.	3 "	"	Ont. & Manitoba F. M. Ltd., Ottawa.		
Sept. 16	Moulée	39167	Jos. Laberte, St. Germain de Grantham.	3 "	"	W. J. Watkins, St. G. de Grantham.	Orge, Sarrazin Blé Indé & Pois.	
" 16	Barley Feed	39168	E. Dionne, St. Bonaventure	3 "	"	Ogilvie M. Co., Montreal.		
" 17	Moulée 'Granite'	39169	A. Robeige, Yaska East.	3 "	"	"		
" 18	Moulée Mélangee	39170	J. P. Paul, Sorel.	3 "	"	"	J. B. Gagne, Sorel.	Orge. Avoine & Sarrazin.
" 24	Moulée Orge.	39171	Chas. R. Cousins & Co., St. Jean.	3 "	"	Vendors.		
" 26	'Kremo' Feed.	39172	N. Thompson, Frelishburg	3 "	"	West. Canada F. M. Co.	Registered No. 74.	
" 27	Moulée	39173	J. H. Brault, St. Armand.	3 "	"	The Quaker Oats Co., Peterboro	Registered No. 13.	
Oct. 3	Moulée de Blé Endommagé.	39174	D. S. Bachand, Coaticook.	3 "	"	Vendor.		
" 4	Moulée Mélangee	39175	G. B. Reed, North Hatley.	3 "	"	"		About 50% Blé Indé & 50% Avoine.
" 9	Moulée 'Success'	39176	A. Ledue, Mansonville.	3 "	"	St. Lawrence F. M. Co., Montreal.	Bag stamped. Proteids 10.0% Fat 2.50% Fibre 18.0%	

DISTRICT OF MONTREAL—

Sept. 6	Bran.	50931	Sinclair Bros., St. Lawrence Mkt. Place, Montreal.	3 lbs.	Nil	Lake of the Woods Milling Co., Ltd.		
" 6	"	50932	S. Leclerc, 1646 St. Lawrence Montreal.	3 "	"	"		
" 6	"	50933	Canada Grain & Feed Co., St. Dominique St., Montreal.	3 "	5	Unknown		

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		Chiefly	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.				
			16.42	3.72	3.4			39161	Genuine.	
			15.18	4.40	4.3			39162	"	
			16.14	5.20	6.5	32	Stinkwood, wild mustard.	39163	" as to food value.	
			16.40	5.04	6.3	4	Wild mustard.	39164	"	
			17.59	4.98	5.7			39165	"	
			14.22	1.86	5.5			39167	"	
			13.47	3.34	3.6			39168	"	
			15.88	3.88	4.3			39169	"	
			9.62	2.34	15.0			39170	High in fibre—adulterated.	
			12.42	2.40	4.8	144	Wild Oats, no mustard.	Full 39171	Genuine as to food value.	
11.56	2.46	16.20	10.67	4.70	11.2			39172	Up to guarantee.	
10.50	4.00	10.50	10.55	3.26	9.6			39173	"	
			13.43	2.42	2.7			39174	Genuine.	
			9.90	4.60	4.5			39175	"	
10.00	2.50	18.00	4.23	1.02	25.0			39176	Very low in proteids—high in fibre—adulterated.	

J. J. COSTIGAN, INSPECTOR.

14.74	4.62	9.8						50931	Genuine.
14.92	4.58	9.0						50932	"
15.31	4.78	5.6						50933	"

4 GEORGE V., A. 1914

BULLETIN No. 254—

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

DISTRICT OF MONTREAL—

1912.								
Sept.	7	Bran.	50934	Brennan Currie & Co., Place Youville, Montreal.	3 lbs	Nil	Campbell M. Co. Peterboro, Ont	
"	16	"	50935	A. Guertin, 534 Notre Dame St W., Montreal.	3 "	"	E. A. Barry...	
"	18	"	50936	E. Benoit et fils, 181 St. Paul St., Montreal.	3 "	"	H. Cook Sons & Co., Hensall, Ont.	
"	16	"	50937	J. P. Lebel, 69 Commissioner St., Montreal.	3 "	5	Lake of the Woods M. Co., Ltd.	Protein 14.5% Fat 4.0% Crude Fibre 10.0%
"	19	"	50938	F. X. Benoit, 201 St. Paul St., Montreal.	3 "	5	H. Cook Son & Co.	
"	6	Shorts	50941	Sinclair Bros., St. Lawrence Market Place, Montreal.	3 "	Nil	Lake of the Woods M. Co., Ltd.	
"	7	"	50942	Brennan Currie & Co., Place Youville, Montreal.	3 "	5	Western Canada M. Co., Ltd.	
"	16	"	50943	A. Guertin, 534 Notre Dame St. W., Montreal.	3 "	5	E. A. Barry...	
"	16	"	50944	E. Benoit et fils, 181 St. Paul St., Montreal.	3 "	5	Maple Leaf M. Co.	
"	18	"	50945	J. P. Lebel, 69 Commissioner St., Montreal.	3 "	8	Western Canada F. Mills Co.	Registered No. 63.
"	18	Middlings	50946	" " " "	3 "	7	Ogilvie F. Mills Co., Ltd.	
"	19	Shorts	50947	W. Lamarre & Co., Atwater Ave., Montreal.	3 "	Nil	Dom. Flour M. Co., Ltd.	
"	19	Middlings	50948	F. X. Benoit, 201 St. Paul St., Montreal.	3 "	5		
"	20	Shorts	50949	F. Gobeille et fils, Henri Julian Ave., Montreal.	3 "	Nil	Robin Hood Mills, Ltd.	
"	7	Chop Feed	50951	Brennan Currie & Co., Place Youville, Montreal.	3 "	"	McDonald Robb Co., Valleyfield, P.Q.	
"	18	"	50952	E. Benoit et fils, 181 St. Paul St., Montreal.	3 "	5	W. L. Hogg, Montreal.	
"	16	Middlings	50953	A. Guertin, 534 Notre Dame W., Montreal.	3 "	Nil	Dom. Flour Mills Co., Ltd., Brantford, Ont.	

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
			14.39	4.36	9.9	16 Wild oats.	Ball mus.	50934 Genuine	
			14.71	5.04	9.8			50935 "	
			14.17	4.36	7.6			50936 "	
14.50	4.00	10.00	16.41	4.00	9.2			50937 Meets guarantee.	
			14.57	3.82	6.7			50938 Genuine	
			17.29	4.84	5.3			50941	
			14.43	4.02	9.6	18 Wild Oats.	Champions	50942 as to food value	
			16.06	4.70	9.5			50943 "	
			16.58	4.08	9.6			50944 "	
18.38	6.02	7.99	17.98	5.22	5.1			50945 Meets guarantee.	
			15.97	3.80	3.8			50946 Genuine.	
			14.00	2.51	2.3			50947 "	
			16.84	4.00	3.6			50948 "	
			15.79	4.12	5.4			50949	
			16.10	3.54	7.6	3 Wild Oats		50951 "	
			10.28	3.96	12.6	5		50952 High in fibre. Pass, as high in fat.	
			14.83	3.24	3.3			50953 Genuine.	

Continued.

Date of Collection.	Nature of Sample.	No. of Sample	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF MONTREAL—								
1912								
Sept. 18	Chop Feed	50954	J. P. Lebel, 69 3/4 St., Montreal.	3 lbs.	5	Lake of the Woods M. Co., Ltd.		Kamoat Reg. No 50.
" 19	"	50955	A. Lannare & Cie., Atwater Ave., Montreal.	3 "	Nil.	Vendor		
" 19	"	50956	F. X. Benoit, 201 St. Paul St., Montreal.	3 "	5			"Champion".
" 20	"	50957	F. Gobeille et fils, Henri Julien Ave., Montreal.	3 "	Nil.	John Mackays, Bowmanville, Ont.		Pure Mixed Feed.

DISTRICT OF OTTAWA—

Sept. 7	Bran	50288	C. Whitney & Son, Prescott.	3 lbs	Nil	Ogilvie's Ltd.	Mfrs	
" 7	Shorts	50289	" " "	3 "	"	"	"	
" 7	Chop Feed	50290	" " "	3 "	"	"	"	
Aug. 30	Bran	50291	W. C. Sylvester & Son, Vankleek Hill.	3 "	"	Vendors		
" 30	Shorts	50292	" " "	3 "	"	"		
" 30	Chop Feed	50293	" " "	3 "	"	"		
" 31	Bran	50294	A. V. McLean, Perth, Ont.	3 "	"	Campbell M. Co., Peterborough.	Mfrs.	
" 31	Shorts	50295	" " "	3 "	"	"	"	
" 31	Chop Feed	50296	" " "	3 "	"	"	"	
Sept. 6	Bran	50297	A. E. Cameron, Brockville.	3 "	"	Ogilvie M. Co.	"	
" 6	Shorts	50298	H. Brown & Sons, Brockville.	3 "	"	Quaker Oats Co., Peterborough.	"	
" 6	Chop Feed	50299	A. E. Cameron, Brockville.	3 "	"	Vendor	"	
" 17	Bran	51614	The Maple Leaf M. Co., Ltd., Ottawa.	3 "	"	Vendors		
" 17	Shorts	51615	" " "	3 "	"	"		
" 17	Bran	51616	The West-Canada F. M. Co., Ottawa.	3 "	"	"		Reg. No. 66. Protein 16.82% Fat 5.5% Fibre 10.86%
" 17	Shorts	51617	" " "	3 "	"	"		Reg. No. 63. Protein 18.38% Fat 6.02% Fibre 7.99%

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		Chiefly.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.				
<i>Concluded.</i>										
100.	100.	100.	100.	100.	100.					
11.00	2.50	16.00	8.22	1.62	13.8				50954	Low in proteids as guaranteed. Adulterated.
			10.25	5.30	8.2	6	Western False Flx.		50955	Genuine.
			10.89	5.00	7.6	13	Stink Weed, Hares Ear Mustard.		50956	
			12.60	3.14	9.1				50957	
<hr/>										
J. A. RICKEY, INSPECTOR.										
			11.04	4.72	10.4				50288	Genuine.
			15.01	4.34	5.6				50289	
			10.14	5.40	9.2	9	Western False Flax.		50290	
			16.23	3.68	6.9				50291	
			15.01	4.26	3.4				50292	
			13.47	3.26	5.2	48	Wild Mustard.		50293	as to food value
			13.82	4.34	8.3	48	Great Rag Weed, Sow Thistles, Canada Thistle.		50294	
			16.97	5.42	5.8	14	Wild Oats, Ear Mustard.		50295	
			12.60	2.84	9.8				50296	
			15.27	4.74	8.7				50297	
			16.93	4.94	4.6	352	Trampling Mustard.		50298	Genuine as to food value.
			10.60	5.36	7.3	18	Western False Flax, Wild oats.		50299	High in weed seeds, Genuine.
			14.26	4.28	8.7				51614	
			15.35	3.68	5.2				51615	
16.82	5.50	10.86	14.34	4.20	9.0	13	Wild oats, Wild Mustard, Hares Ear Mustard.		51616	Below guarantee in proteids. See note 1 p.
18.38	6.02	7.99	16.62	4.66	5.6				51617	Below guarantee. See note 2. Adulterated.

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

DISTRICT OF OTTAWA—

1912.								
Sept. 17	Chop Feed.	51618	The West-Canada F.M.Co., Ottawa	3 lbs.	Nil.	Vendors		"Good Luck" Brand.
" 19	Bran	51620	J. A. Forward, Ottawa.	3 "	"	Lake of the Woods Milling Co.	Mfrs.	
" 19	Shorts	51621	" " "	3 "	"	" " "	"	
" 19	Bran	51622	Wm. Scott & Co., Deschenes, P.Q.	3 "	"	Vendors		
" 19	Shorts	51623	" " "	3 "	"	" " "	"	
" 19	Chop Feed.	51624	" " "	3 "	"	" " "		Barley Chop.
" 20	"	51625	J. W. McKay, Ottawa.	3 "	"	W. R. Cummings, Cummings Bridge.	Mfrs.	"All Grain."
" 20	"	51628	W. B. Ardley, Ottawa.	3 "	"	" " "	"	
" 20	Bran	51629	A. Bergevin, Dalhousie St., Ottawa.	3 "	"	Ontario & Manitoba F.M.Ltd., Ottawa.	Mfrs.	
" 20	Shorts	51630	" " "	3 "	"	" " "	"	
" 20	Shorts	51631	" " "	3 "	"	Dowd Milling Co.	"	
" 20	Chop Feed.	51632	Larose Bros., Cumberland St. Ottawa.	3 "	"	Quaker Oats Co., Peterboro.	"	"Banner"—Reg. No. 16—Protein 8.5%—Fat 3.5%—Fibre 9.0%.
" 20	"	51633	Larose Bros., Cumberland St., Ottawa.	3 "	"	Chisholm M. Co., Toronto.	"	"Crescent"—Reg. No. 84—Protein 9.0%—Fat 5.0%—Fibre 20.0%.
" 20	Bran	51635	Ed. St. Germain, Byward Market, Ottawa.	3 "	"	Lake of the Woods M. Co., Keewatin.	"	No registered number on bags—Protein 14.5%—Fat 5.0%—Fibre 10%.

DISTRICT OF KINGSTON—

Sept. 3	Bran	49570	Geo. Gibson, Kingston.	3 lbs.	5	Ogilvie Co.		
" 3	"	49571	W. P. Peters, Kingston.	3 "	10	Lake of the Woods M. Co., Ltd.		
" 3	"	49572	Hedley Shaw, Kingston.	3 "	10	Hedley Shaw Milling Co.		

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.		Results of Analysis.				Vital Weed Seeds,		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
<i>Concluded.</i>									
			p.c.	p.c.	p.c.				
			12.30	3.88	11.6	64	Wild Oats, Wild Mustard, Cow Cockle,	51618	Genuine as to food value.
			14.78	4.86	9.6			51620	Genuine.
			16.90	4.74	5.2			51621	"
			14.83	4.71	10.2			51622	"
			15.22	4.40	8.9			51623	"
			11.49	1.88	4.4			51624	"
			10.98	1.28	9.0			51625	"
			14.17	2.32	5.4			51628	"
			14.78	4.31	8.8	21	Wild Oats	51629	"
			17.59	5.94	4.9			51630	"
			17.19	4.76	4.9			51631	"
8.56	3.50	9.00	8.58	3.24	6.4	4	Wild mustard	51632	Meets guarantee.
9.00	5.00	20.00	11.03	3.42	16.1	9	Stinkwood	51633	"
14.50	4.00	10.00	15.14	4.58	8.8	3	Stinkwood	51635	"

JAS. HOGAN, INSPECTOR.

			14.47	4.28	10.5			49570	Genuine.
			15.41	4.40	9.3			49571	"
			14.00	4.36	9.2			49572	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF KINGSTON—								
1912.								
Sept. 3	Bran.....	49573	Kingston M. Co., Kingston.	3 lbs.	5	Vendors.....		
" 3	"	49574	J. A. MacFarlane, Kingston.	3 "	5	West F. M. Co.....		
" 3	"	49575	D. Hutchison, Kingston.	3 "	5	Ogilvie Co.....		
" 4	"	49576	Anderson Bros., Kingston.	3 "		Hedley Shaw Milling Co.		
" 4	"	49577	C. H. Pickering, Kingston.	"	6		W. P. Peters, Kingston.	
" 11	"	49578	Campbell, C. M., Co., Peterboro.	3 "	5	Vendors.....		
" 11	"	49579	Quaker Oats Co., Peterboro.	3 "	5	".....		
" 3	Shorts....	49580	Kingston M. Co., Kingston.	3 "	5	".....		
" 3	"	49581	D. Hutchison, Kingston.	3 "	5	Ogilvie Co.....		
" 4	"	49582	Anderson Bros., Kingston.		10	Hedley Shaw M. Co.		
" 4	"	49583	J. Martin, Kings- ton.	3 "	5	Hedley Shaw M. Co.		
" 9	"	49585	H. E. Fairfield, Belleville.	3 "	5	Quaker Oats, Peterboro.		
" 9	"	49586	J. Panter & Son, Belleville.	3 "	5	J. Cook Hensall.....		
" 10	"	49587	E. A. Dumeans, Cobourg.	3 "	5	Ogilvie Co.....		
" 10	"	49588	The Thompson Macdonald Co., Cobourg.	3 "	5	Leach Co., Oak Lake.		
" 11	"	49589	Campbell F. Mills Co., Peterboro.	3 "	5	Vendors.....		
" 3	Chop Feed	49590	Geo. Gibson, Kingston.	3 "	5	Vendor.....		
" 3	"	49591	W. J. Peters, Kingston.	3 "	10	".....		
" 3	"	49592	Kingston Milling Co., Kingston.	3 "	5	Vendors.....		
" 3	"	49593	J. A. Farlane, Kingston.	3 "	6	West F. Mills Co.		
" 3	"	49594	D. Hutchison, Kingston.	3 "	5	Vendor.....		
" 4	"	49595	Anderson Bros., Kingston.	3 "	10		W. J. Peters, Kingston.	
" 4	"	49596	C. H. Pickering, Kingston.	3 "	8		".....	
" 4	"	49597	J. W. Martin, Kingston.	3 "	10	E. F. McBroom, Washburn.		
" 11	"	49598	Campbell F. Mills Co., Peterboro.	3 "	5	Vendors.....		
" 11	"	49599	Quaker Oats Co., Peterboro.	3 "	5	".....		
" 11	Shorts....	49600	".....	3 "	5	".....		

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		Chiefly	No. of Sample	Remarks and Opinion the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.				
<i>Concluded.</i>										
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.					
			15.44	4.52	8.0				49573	Genuine.
			15.62	4.60	8.2				49574	
			13.52	4.56	10.2				49575	
			14.09	4.06	9.8				49576	
			14.34	4.41	9.7				49577	
			13.74	4.74	9.6				49578	
			15.05	4.52	8.5				49579	
			17.41	5.18	4.6				49580	
			15.18	4.16	5.3				49581	
			16.71	4.74	5.3				49582	
			15.79	2.46	2.7				49583	
			15.71	4.40	4.2				49585	
			16.01	4.26	4.5				49586	
			15.79	4.22	4.6				49587	
			16.67	4.50	5.0				49588	
			15.75	5.30	6.4				49589	
			14.13	4.10	9.6	52	Wild mustard, Docks.		49590	Genuine as to food value.
			10.95	5.20	8.2	64	False Flax, Stinkweed		49591	
			10.71	3.76	9.3	4	False Flax		49592	Genuine.
			11.17	2.76	2.8	43	False Flax, Stinkweed		49593	as to food value.
			10.94	4.00	9.2	8	Campions		49594	
			10.11	4.25	9.2	32	Campions, False Flax Ragweed, Stinkweed Wild mustard.		49595	as to food value.
			10.41	5.28	9.3	112	Wild oats, Wild mustard.		49596	
			10.87	5.68	8.7	48	Wild oats.		49597	
			9.28	2.64	1.1				49598	
			8.30	3.24	10.0	6	False Flax		49599	Low in proteids; but excess fat compensates.
			17.06	4.36	5.5				49600	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF TORONTO—								
1912.								
Sept. 18	Bran	51471	Jas. Pearson, 1948 Dundas St., West Toronto.	3 lbs.	5		West. Canada M. Co., Toronto.	Reg. No. 66— Protein 16.82 %— Fat 5.5% Fibre 10.86
" 19	"	51472	Lewis & Stevenson, 942 Bloor St., West Toronto.	3 "	5	Lake of the Woods M. Co. Ltd., Toronto.		Bags are branded L. W. Bran. K.
" 23	"	51473	R. Knowles, 658 Yonge St., Toronto	3 "	5	Alex. Brown M. & E. Co. Ltd., Toronto.		Bags are branded with letter B.
" 23	"	51474	Wm. Stoughton, 439 Yonge St., Toronto.	3 "	5	The Campbell M. Co., Ltd., Toronto.		" Bull Rush " Brand.
" 30	"	51475	Jas. Dunlop Co., Ltd., 127 John St. South Hamilton.	3 "	5		S. Lukes Bradford.	
" 30	"	51476	J. Penfold, 98 John St., South Hamilton.	3 "	5		Dom. F. M. Co. Ltd., Hamilton.	
" 30	"	51477	W. Pringle & Son, 280 York St., South Hamilton.	3 "	5		Maple Leaf M. Co., Ltd., Port Colborne.	
" 30	"	51478	Bennett & Son, 188 King St., West Hamilton.	3 "	5		Ker Milling Co., Dundas	
" 30	"	51479	A. Dyment & Son, Boston & Emerald Sts., Hamilton.	3 "	5		Wood Milling Co., Ltd., Hamilton.	
" 30	"	51480	A. W. Swaize, 49 Barton St., East Hamilton.	3 "	6		Seaforth Milling Co., Ltd. Seaforth.	Bags are branded—Seaforth M. Co. Ltd., Bran — Seaforth.
" 18	Shorts	51481	H. Dent, 1523 Dundas st. West Toronto.	3 "	5		Kewatin M. Co., Ltd., Toronto.	
" 19	"	51482	Chalmers Milling Co., East Toronto.	3 "	5	Vendors		
" 19	"	51483	Elliott & Armstrong, 1554 Danforth ave., East Toronto.	3 "	5	West. Canada F. M. Co., Ltd., Toronto.		Reg. No. 63, Protein 18.38 %— Fat 8.02 %— Fibre 7.90
" 19	"	51484	Crampsey & Kelly, 780 Dovercourt ave., Toronto.	3 "	5	Maple Leaf M. Co., Ltd., Toronto.		Bags are Branded, Maple Leaf Milling Co., Ltd., Trade Mark reg. Maple Leaf.

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fiber.	No. per lb.	Chiefly.		
16.82	5.50	10.86	14.92	4.12	8.6	32	Champions, Hare's Ear mustard.	51471	Below guarantee in proteids. See 1-p.
			14.39	4.06	9.5			51472	Genuine.
			14.04	4.56	9.4			51473	
			14.39	4.50	9.6			51474	
			15.44	4.56	8.4	13	Wild oats.	51475	
			13.65	4.50	9.2	176	False Flax, Canada Thistle, Wild oats, Hare's Ear mustard.	51476	as to food value.
			15.57	4.62	7.2			51477	
			14.65	4.48	9.4			51478	
			14.04	4.20	8.2	640	Canada Thistle, False flax, Tumbling mustard, Docks, Champions.	51479	Genuine as to food value, very high in weed seeds.
			13.91	4.60	9.7	32	Ribgrass, Wild oats.	51480	Genuine as to food value.
			17.46	4.72	4.7			51481	Genuine.
			16.72	4.58	2.3			51482	
18.38	6.02	7.99	16.44	4.46	7.5			51483	Below guarantee. Meets requirements for Shorts. See Note 2, p. adulterated.
			16.40	4.30	7.0			51484	Genuine.

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

DISTRICT OF TORONTO—

1912.								
Sept. 19	Shorts	51485	G. Forsyth, 495 Bathurst, Toronto.	3 lbs.	5	Alex. Brown M. Co., Ltd., Toronto.		
" 20	"	51486	Geo. Forester, Newmarket.	3 "	5		Ogilvie Milling Co., Ltd., Montreal.	
" 23	"	51487	Lake of the Woods M. Co., Ltd., Newmarket.	3 "	5	Vendors		
" 30	"	51488	D. Stein, 444 York st., Hamilton.	3 "	5	Dom. F. Mills Co., Ltd., Hamilton.		
" 30	"	51489	Geo. Matheson, 45 Wellington st. north, Hamilton.	3 "	5	The Ogilvie F. Mills Co., Ltd., Montreal.		
Oct. 1	"	51490	W. Kerns & Co., Burlington.	3 "	5	Unknown		
Sept. 18	Chop Feed (Screenings).	51491	The Campbell F. Mills Co., Ltd., West Toronto.	3 "	5	Vendors		Screenings from various kinds of grain
" 19	Chop Feed	51492	Wm. Hanna & Co., East Toronto.	3 "	5	"		Composed of Manitoba Wheat.
" 20	"	51493	Stiver Bros., Aurora.	3 "	10	"		
" 20	"	51494	J. Reynolds, Aurora.	3 "	10	The Campbell F. M. Co., Ltd., West Toronto.		
" 20	"	51495	W. J. Baldwin, Aurora.	3 "	5	Vendor		
" 29	"	51496	W. H. Eves, Newmarket.	3 "	5	"		
" 30	"	51497	Dom. Flour Mills Co., Ltd., 75 Main st east, Hamilton.	3 "	5	Vendors		
" 30	"	51498	Hamilton Milling Co., Market and Park sts., Hamilton.	4 "	5	"		
Oct. 1	"	51499	Kerr Milling Co., Ltd., Dundas.	3 "	5	"		
" 3	"	51500	Wm. Clark, 49 McNab st north, Hamilton.	3 "	5	"		

DISTRICT OF WINDSOR—

Sept. 30	Bran.	48127	A. M. Hamilton & Son, London.	3 lbs.	6	King Milling Co., Sarnia.		
" 30	Shorts	48128	"	3 "	6	Docter Milling Co., London.		

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Clain.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly		
<i>Concluded.</i>									
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
			11.57	4.11	5.5	4	Western False Flax	51485	Genuine
			16.10	4.60	6.4			51486	
			17.02	4.90	5.4			51487	
			15.92	4.72	5.1	128	Western False Flax, False Flax, Stinkweed, Ball mustard, Wild mustard.	51488	Genuine as to food value.
			15.75	4.74	4.6	64	False Flax, Wild mustard.	51489	
			15.44	3.80	6.7	64	Wild oats	51490	
			12.26	3.36	12.1	96	Harp's Ear mustard, Campions, Stink wood.	51491	
			13.26	2.64	3.6			51492	Genuine
			12.64	2.44	4.1	14	Wild mustard.	51493	
			13.21	2.54	2.7	11	Wild oats, Ball mustard.	51494	
			13.15	2.98	4.2	208	False Flax, Campions, Docks, Wild mustard.	51495	Genuine as to food value.
			9.90	4.72	12.3			51496	Genuine.
			12.43	3.20	4.9	288	False Flax, Wild oats.	51497	Genuine as to food value.
			13.21	2.88	4.1	10	Campions, False Flax.	51498	Genuine.
			11.84	4.76	7.8			51499	
			13.36	2.48	3.1			51500	

JNO. TALBOT, INSPECTOR.

			15.09	4.44	9.3	96	Docks, Wild oats, Wild mustard.	48127	Genuine as to food value.
			16.23	4.40	7.0			48128	Genuine.

4 GEORGE V., A. 1914
BULLETIN No 254—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF WINDSOR—								
1912.								
Sept. 30	Chop Feed.	48129	A. M. Hamilton & Son, London.	3 lbs.	6	Vendors		
" 30	Shorts	48130	Jas. Twitchen, London.	3 "	4	Docter & Son, London.		
" 30	Bran	48131	" "	3 "	4	J. Hawkins, St. Johns.		
" 30	Chop Feed	48132	" "	3 "	5	A. J. Sutherland, London.		
" 30	Shorts	48133	R. Hookway & Son, London.	3 "	7	Docter & Son, London.		
" 30	Bran	48134	" "	3 "	7	" "		
" 30	Chop Feed	48135	" "	3 "	7	Hunt Bros., London.		Corn chop.
" 30	Bran	48136	Leith & Staples, London East.	3 "	5	" "		
" 30	Shorts	48137	" "	3 "	5	" "		
" 30	Bran	48138	Adams & Tautou, London.	3 "	5	Harvey Bros., Exeter.		
" 30	Shorts	48139	" "	3 "	5	E. Docter & Son, London.		
" 30	Chop Feed	48140	" "	3 "	5	Unknown		Corn chop.
Oct. 2	Bran	48141	C. & J. Morrison, Petrolia.	3 "	5	C. B. Matthews & Son, Watford.		
" 2	Shorts	48142	" "	3 "	5	Empire F. Mills, St. Thomas.		
" 2	Chop Feed	48143	" "	3 "	5	Vendors		
" 2	Shorts	48144	John Bickle & Co., Petrolia.	3 "	Nil.	Lake of the Woods M. Co.		
" 2	Bran	48145	" "	3 "	"	" "		
" 2	Chop Feed	48146	" "	3 "	"	Vendors		
" 3	Shorts	48155	Gardener Bros., Sarnia.	3 "	5	Lake of the Woods M. Co.		
" 3	Bran	48156	" "	3 "	4	" "		
" 4	Shorts	48163	R. M. Pincombe, Strathroy.	3 "	Nil.	Vendor		
" 4	Bran	48164	" "	3 "	"	"		
" 4	Chop Feed	48165	" "	3 "	"	"		
" 4	Chop Feed	48166	S. S. Donaldson, Strathroy.	3 "	"	"		
" 4	Shorts	48167	" "	3 "	"	"		
" 4	Bran	48168	" "	3 "	"	"		

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds,		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
<i>Concluded.</i>									
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			11.51	3.78	6.0			48129	Genuine.
			16.80	5.86	6.1			48130	"
			15.00	4.54	9.9	1	Ragweed	48131	"
			8.46	2.68	6.6	48	Wild Mustard, Docks.	48132	Low in proteids. Adulterated.
			16.10	4.90	6.3			48133	Genuine.
			13.56	4.90	9.7	96	Purple Cocks, Ball mustard, Wild mustard, Hare's Ear mustard	48134	" as to food value.
			8.98	3.81	1.9			48135	"
			15.40	4.60	9.2			48136	"
			15.79	4.34	6.0			48137	"
			13.74	4.48	9.8			48138	"
			16.06	5.36	6.6			48139	"
			8.90	3.32	1.6	1	Hare's Ear mustard	48140	"
			13.74	4.16	6.1			48141	"
			16.40	4.90	4.4			48142	"
			12.43	2.10	3.8	4	Wild oats.	48143	"
			17.86	4.42	4.1			48144	"
			14.09	4.00	5.8			48145	"
			11.33	3.46	7.7	13	Docks, Campions	48146	"
			17.02	4.90	5.8			48155	"
			15.53	4.52	9.9			48156	"
			14.88	3.51	4.9			48163	"
			13.39	4.12	9.0	5	Wild oats.	48164	"
			11.55	2.78	6.6	32	Docks, Campions.	48165	" as to food value.
			11.88	4.20	7.1			48166	"
			15.05	4.00	4.6	16	False Flax	48167	"
			12.47	4.08	8.5			48168	Low in proteids compensating fat and fibre.

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

DISTRICT OF MANITOBA

1912.								
Oct.	1 Bran.	48751	The Lake of the Woods M. Co., Portage La Prairie.	3 lbs.	Nil.	Vendors		
"	2 "	48752	Western Canada F. Mills Co., Brandon.	3 "	"	"		
"	2 "	48753	Maple Leaf Milling Co., Brandon.	3 "	"	"		
"	2 "	18754	G. McCulloch & Sons, Souris.	3 "	"	"		
"	3 "	48755	Leitch Bros. M. Co., Oak Lake.	3 "	"	"		
"	4 "	48756	The Ogilvie F. Mills Co., Winnipeg.	3 "	"	"		
"	4 "	48757	Western Canada F. Mills Co., St. Boniface.	3 "	"	"		
"	1 Shorts	48761	The Lake of the Woods M. Co., Port La Portage.	3 "	"	"		
"	2 "	48762	Western Canada F. M. Co., Brandon	3 "	"	"		
"	2 "	48763	Maple Leaf M. Co., Brandon.	3 "	"	"		
"	2 "	48764	G. McCulloch & Sons, Souris.	3 "	"	"		
"	3 "	48765	Leitch Bros. M. Co., Oak Lake.	3 "	"	"		
"	4 "	48766	The Ogilvie F. Mills Co., Winnipeg.	3 "	"	"		
"	4 "	48767	Western Canada F. M. Co., St. Boniface.	3 "	"	"		
"	1 Chop Feed	48771	The Lake of the Woods M. Co., Portage La Prairie.	3 "	"	"		
"	2 "	48772	Western Canada F. M. Co., Brandon.	3 "	"	"		Oat Chop
"	2 "	48773	" " "	3 "	"	"		Barley Chop
"	2 "	48774	G. McCulloch & Sons, Souris.	3 "	"	"		Oat Chop
"	4 "	48775	The Ogilvie F. Mills Co., Winnipeg.	3 "	"	"		"
"	4 "	48776	The Ogilvie F. M. Co., Winnipeg.	3 "	"	"		Barley Chop
"	4 "	48777	West Canada F. Mills Co., St. Boniface.	3 "	"	"		Oat Chop
"	4 "	48778	" " "	3 "	"	"		Barley Chop

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		

A. C. LARIVIERE, INSPECTOR.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			14.83	4.88	9.7	32	Wild Oats Weed.	Stink	48751 Genuine as to food value.
			16.67	4.78	8.5				48752 Genuine.
			16.41	5.12	9.3				48753
			15.35	4.44	8.6	23	Campions		48754
			14.83	5.20	8.6				48755
			15.35	5.04	8.7				48756
			16.93	5.06	7.8				48757
			17.41	5.40	3.1				48761
			17.02	4.54	5.7	18	Wild Oats. Campions. Ball Mustard.		48762
			17.72	5.54	5.6				48763
			18.07	5.12	4.3				48764
			16.44	5.08	6.6				48765
			17.41	4.52	5.1				48766
			16.73	4.78	4.6				48767
			11.16	2.64	4.4	5	Wild Oats		48771
			13.15	4.86	7.9	54	Wild Oats Weed. Stickseed. Ball Mustard.	Stink	48772 as to food value very high in weed seeds.
			13.30	2.48	4.7	13	Wild Oats Cocksle.	Cow	48773 Genuine.
			14.28	4.60	12.3				48774
			10.25	5.12	4.8				48775
			11.80	2.24	4.6	1,104	Wild oats. Campions. Weed. Stickseed. Stink-weed.		48776 Genuine as to food value Very high in weed seeds.
			10.60	3.46	8.0				48777 Genuine.
			12.06	2.54	5.8	48	Campions. False flax. Ball mustard.		48778 as to food value.

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

DISTRICT OF NELSON—

1912.									
Sept.	3	Shorts	49675	Taylor M. & E. Co., Nelson, B.C.	3	lbs.	10	Macleod Milling Co., Macleod.	
"	3	"	49676	" " "	3	"	"	Taylor M. & Co., Lethbridge.	
"	3	Bran	49677	" " "	3	"	"	" " "	
"	3	Chop Feed	49678	" " "	3	"	"	" " "	Chopped Oats.
"	3	"	49679	Brackman Ker M. Co., Nelson, B.C.	3	"	"	Brackman Ker M. Co., Strathcona, Alta.	" National."
"	3	"	49680	" " "	3	"	"	" " "	Chicken.
"	3	"	49681	" " "	3	"	5	" " "	Dairy
"	3	Bran	49682	" " "	3	"	10	Ellison Mill & E. Co., Lethbridge	
"	3	"	49683	" " "	3	"	"	Robin Hood Mills, Calgary.	
"	6	"	49698	Smith & Welsh, Merritt, B.C.	3	"	"	Vanc. Mill & G. Co., Vancouver	
"	6	Shorts	49699	" " "	3	"	"	" " "	
"	6	Chop Feed	49700	" " "	3	"	"	Calgary M. Co., Calgary.	Wheat and Barley.
"	9	Bran	49729	Browne Bros., Revelstoke, B.C.	3	"	"	Ogilvie M. Co., Winnipeg.	
"	9	Shorts	49730	" " "	3	"	"	" " "	
"	10	Bran	49739	C. B. Hume & Co., Revelstoke, B.C.	3	"	"	Robin Hood F. M. Co., Calgary.	
"	10	Shorts	49740	" " "	3	"	"	" " "	
"	23	Bran	49749	C. A. Warren, Golden, B.C.	3	"	"	Brackman Ker M. Co., Calgary.	
"	23	Shorts	49750	" " "	3	"	"	" " "	
"	23	Bran	49757	H. G. Parson, Ltd., Golden, B.C.	3	"	"	Robin Hood M. Co., Moosejaw	
"	23	Shorts (Middlings)	49758	H. J. Parson, Ltd., Golden, B.C.	3	"	"	" " "	
"	23	Bran	49763	C. R. Lumber Co., Golden, B.C.	3	"	"	Alberta Pacific E. Co., Calgary.	
"	23	Shorts	49764	C. R. Lumber Co., Golden, B.C.	3	"	"	Alberta Pacific E. Co., Calgary.	
"	25	Bran	49773	C. B. Hume & Co., Arrowhead, B.C.	3	"	"	Robin Hood Mills, Moosejaw.	
"	25	Shorts	49774	C. B. Hume & Co., Arrowhead, B.C.	3	"	"	Robin Hood Mills, Moosejaw.	
"	25	"	49775	Reid & Young, Arrowhead, B.C.	3	"	15	Ellison M. & E. Co., Lethbridge.	

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
THOS. PARKER, INSPECTOR									
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
.....	15.09	4.06	3.4	.....	.....	49675	Genuine.
.....	13.78	2.04	1.1	.....	.....	49676	Low in proteids and fat. Adulterated.
.....	16.10	4.70	8.3	.....	.....	49677	Genuine.
.....	9.61	5.44	9.7	.....	.....	49678	"
.....	9.41	2.52	13.7	.....	.....	49679	High in fibre. Adulterated.
.....	17.76	6.26	5.3	64	Ball mustard.	49680	Genuine as to food value.
.....	9.55	4.32	18.2	3	"	49681	High in fibre. Compensating fat—2.32.
.....	16.40	1.48	8.7	48	Hares' Ear mustard. Wild oats.	49682	Genuine as to food value.
.....	15.01	5.00	9.4	.....	.....	49683	Genuine.
.....	14.88	5.06	8.9	.....	.....	49688	
.....	15.97	4.68	5.4	.....	.....	49699	"
.....	12.95	2.38	3.5	.....	.....	49700	
.....	13.78	4.24	10.3	.....	.....	49729	
.....	16.54	3.88	3.7	.....	.....	49730	
.....	13.74	4.02	8.4	.....	.....	49739	
.....	16.27	4.46	4.1	.....	.....	49740	
.....	17.46	4.78	7.6	.....	.....	49749	
.....	15.92	4.04	5.8	.....	.....	49750	
.....	15.18	4.56	8.4	.....	.....	49757	
.....	18.07	5.38	3.4	.....	.....	49758	
.....	15.92	4.84	7.9	.....	.....	49763	
.....	15.97	5.08	3.6	.....	.....	49764	
.....	13.87	4.26	8.4	.....	.....	49773	
.....	16.06	4.52	2.8	16	False Flax. Stinkweed.	49774	"
.....	16.67	3.56	5.7	.....	.....	49775	"

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

DISTRICT OF VANCOUVER—

1912.									
Oct.	1	Bran	38449	F. T. Vernon, Vancouver, B.C.	3 lbs.	20	Robin Hood Mills, Moosejaw, Sask.		
"	1	"	38450	Brackman Ker M. Co., New Westminster, B.C.	3	Nil.	Sask. F. Mills, Moosejaw, Sask.		
"	2	"	38451	McLellan McCarter, Ltd., Vancouver, B.C.	3	"	Vancouver Milling Co., Vancouver.		
"	2	"	38452	Vancouver Milling Co., Vancouver, B.C.	3	"	Vendors.....		
"	2	"	38453	Henry Holtz & Co., Vancouver, B.C.	3	"	Vancouver Milling Co., Vancouver.		
"	3	"	38454	Brown & Howey, Vancouver, B.C.	3	"	Robin Hood F. M. Moosejaw, Sask.		
"	3	"	38455	Donaldson & MacDonald, Vancouver, B.C.	3	"	Vancouver Milling Co., Vancouver.		
"	3	"	38456	Hall & Willis, Vancouver, B.C.	3	"	Ellison M. Co., Lethbridge, Alta.		
"	9	"	38457	Brackman Ker M. Co., Vancouver, B.C.	3	"	Ellison M. Co., Lethbridge, Alta.		
"	10	"	38458	Gibson & Brown, Vancouver, B.C.	3	"	Robin Hood M. Co., Moosejaw, Sask.		
"	1	Shorts	38459	F. T. Vernon, Vancouver, B.C.	3	"	Robin Hood M. Co., Moosejaw, Sask.		
"	1	"	38460	Brackman Ker M. Co., Vancouver, B.C.	3	"	Sask. Milling Co., Moosejaw, Sask.		
"	2	"	38461	McLellan & McCarter Co., Vancouver, B.C.	3	"	Vancouver Milling Co., Vancouver.		
"	2	"	38462	Vancouver Milling Co., Vancouver, B.C.	3	"	Vendors.....		
"	2	"	38463	Henry Holtz & Co., Vancouver, B.C.	3	"	Vancouver Milling Co., Vancouver.		
"	2	"	38464	Donaldson & MacDonald, Vancouver, B.C.	3	"	Vancouver Milling Co., Vancouver.		
"	4	"	38465	Hall & Willis, Vancouver, B.C.	3	Nil.	Ellison Milling Co., Lethbridge, Alta.		
"	4	"	38466	Brackman Ker M. Co., Vancouver, B.C.	3	"	"		

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
			15.95	4.84	9.3	11	Wild Mustard. Hares Ear Mustard.	38449	Genuine.
			14.92	4.90	8.9			38450	"
			14.92	5.16	9.3	128	Stinkweed Wild Mustard.	38451	Genuine as to food value.
			14.57	5.02	9.5			38452	Genuine.
			14.74	4.98	8.8			38453	
			14.61	4.90	8.7	32	Stinkweed. Hares Ear Mustard.	38454	Genuine as to food value.
			15.27	4.52	8.2			38455	Genuine.
			17.46	4.00	8.6			38456	"
			15.44	4.64	9.1			38457	"
			15.84	4.78	7.9			38458	"
			13.34	4.32	6.4			38459	Low in proteids, 1.66 Adulterated.
			15.01	4.96	8.0			38460	Genuine.
			15.48	4.72	5.6			38461	
			15.75	5.06	5.0			38462	
			15.62	4.64	5.3			38463	"
			13.91	4.16	5.7			38464	Low in proteids, 1.19 Adulterated.
			17.23	3.96	3.9			38465	Genuine.
			16.93	3.38	5.4			38466	"

J. F. POWER, INSPECTOR.

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

DISTRICT OF VANCOUVER—

1912.								
Oct.	4	Shorts	38467	Gibson & Brown, Vancouver, B.C.	3 lbs.	Nil.	Robin Hood M. Co., Moosejaw Sask.	
"	4	"	38468	A. E. Burnett & Co., Vancouver, B.C.	3 "	"	"	
"	4	Chop Feed.	38469	F. T. Vernon, Vancouver, B.C.	3 "	"	Vendor	
"	4	"	38470	Brackman Ker M. Co., New Westminster, B.C.	3 "	"	Vendors	
"	2	"	38471	McLellan & McCarter Co., Vancouver, B.C.	3 "	"	"	
"	2	"	38472	Vancouver Milling Co., Vancouver, B.C.	3 "	"	"	
"	2	"	38473	Brown & Howey, Vancouver, B.C.	3 "	"	"	
"	3	"	38474	Donaldson & MacDonald, Vancouver, B.C.	3 "	"	A. E. Burnett & Co., Vancouver.	
"	4	"	38475	Hall & Willis, Vancouver, B.C.	3 "	"	"	
"	9	"	38476	Brackman Ker M. Co., New Westminster, B.C.	3 "	"	Vendors	
"	10	"	38477	Gibson & Brown, Vancouver, B.C.	3 "	"	Brown & Howey, Vancouver.	
"	10	"	38478	A. E. Burnett & Co., Vancouver, B.C.	3 "	"	Vancouver M. Co., Vancouver	

DISTRICT OF VICTORIA—

Oct.	24	Bran.	49251	Brackman Ker Milling Co., Ltd., Victoria, B.C.	3 lbs.	3	Robin Hood M. Ltd., Calgary, Alta.	Crude Protein 16.25%, Crude Fat 5.20%, Crude Fibre 9.80%.
"	24	"	49252	"	3 "	4	Ogilvies F. M. Ltd., Winnipeg	
"	24	"	49253	"	3 "	5	Ellison M. & E. Co., Ltd., Lethbridge.	
"	24	Shorts	49254	"	3 "	5	"	
"	24	"	49255	"	3 "	5	Robin Hood M. Co., Ltd., Calgary, Alta.	
"	24	"	49256	"	3 "	5	Ogilvies F. M. Co., Ltd., Winnipeg.	"Nestor's" Feed Flour.

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.				Vital Weed Seeds.		Chiefly.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.					
			p. c.	p. c.	p. c.	p. c.					
			16.80	5.10	4.5				38467	Genuine.	
			16.84	4.72	4.8				38468	"	
			10.02	6.68	8.6	48	Wild oats.		38469	Genuine as to food value.	
			10.41	3.36	8.1	112	Wild oats.		38470	"	
			10.76	2.94	2.1	64	False Flax. Ball must- ard.		38471	"	
			12.99	4.98	5.3				38472	Genuine.	
			11.16	3.82	6.2	80	Wild oats. Wild must- ard.		38473	Genuine as to food value.	
			13.36	5.66	8.1	17	Wild oats. Ball must- ard. Hare's ear must- ard.		38474	Genuine.	
			11.08	5.82	7.5	432	Wild oats. Ball must- ard.		38475	Genuine as to food value very high in weedseeds.	
			10.28	4.94	8.6	8	Wild oats.		38476	Genuine.	
			10.11	3.28	1.8				38477	"	
			11.11	2.62	2.2	3	Ball mustard.		38478	"	

D. O'SULLIVAN, INSPECTOR.

16.25	5.20	9.80	15.71	4.96	8.4	6	Wild oats. Hare's ear mustard.	19251	Meets guarantee.
			13.82	4.64	10.3	21	Wild oats.	19252	Genuine.
			18.29	4.74	7.7			19253	"
			18.20	4.00	4.6			19254	"
			17.90	4.90	4.1			19255	"
			17.28	4.12	4.0			19256	"

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

DISTRICT OF VICTORIA—

1912.								
Oct. 24	Shorts	49257	Brackman Ker Milling Co., Ltd., Victoria, B.C.	3 lbs.	4	Robin Hood Mills, Ltd., Calgary, Alta.		
" 24	Chop Feed	49258	"	3	4	Vendors		"B & K Corn Chop Protein 9.0% Fat 4.0% Fibre 8.0% Reg. No. 136.
" 24	"	49259	"	3	4	Vendors		B. & K. Oat Feed. Protein 7.0% Fat 3.0% Fibre 15.0% —Reg. No. 137.
" 24	"	49260	"	"	4	"		Jersey Dairy Feed. Protein 18.0% Fat 5.0% Fibre 10.0% —Reg. No. 138.
" 24	"	49261	"	"	4	"		B. & K. Chicken Chop. Reg. No. 154.
" 24	"	49262	"	"	4	"		Soy Bean Oil Feed. Protein 45.0% Fat 8.0%
" 24	Bran	49263	Scott & Peden, Victoria, B.C.	"	5	Robin Hood Mills, Ltd., Calgary, Alta.		Crude Protein 16.25% — Crude Fat 5.20% — Crude Fibre 9.80%.
" 24	"	49264	"	"	5	Lake of the Woods M. Co., Ltd., Portage La Prairie.		Crude Protein 14.5% — Crude Fat 4.0% — Crude Fibre 10.6%.
" 24	Shorts	49265	"	"	5	"		
" 24	"	49266	"	"	5	Ellison M. & E. Co., Ltd., Lethbridge, Alta.		
" 24	Chop Feed.	49267	"	"	10	Vanc. M. & Grain Co., Ltd., Vancouver, B.C.		
25	Bran	49268	J. B. Kelly, Sidney B.C.	"	5	Ogilvie F. M. Co., Ltd., Winnipeg		
25	Shorts	49269	"	"	5	Med. Hat M. Co., Ltd., Med. Hat, Sask.		

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.	
			15.40	3.62	2.5			49257 Genuine
9.00	4.00	8.60	10.18	3.52	6.8	21	Ball mustard, Wild mustard.	49258
7.00	3.00	15.00	12.31	3.62	17.9			49259 Meets guarantee.
18.00	5.00	10.00	15.44	4.40	11.1			49260 Below guarantee in proteids. Ad. altered.
15.00	5.00	5.00	14.41	4.21	4.9			49261 Meets guarantee.
45.00	8.00		45.50	8.14	4.8			49262
16.25	5.20	9.80	15.05	4.84	8.3	16	Wild oats, wild mustard.	49263
14.50	4.00	10.00	15.27	4.78	9.2	24	Stinkweed	49264
			16.84	5.30	5.8	32	Stinkweed, ball mustard.	49265 Genuine as to food value.
			16.27	4.14	2.8	21	Wild oats	49266 Genuine.
			11.46	3.48	8.0			49267
			14.83	4.74	10.4			49268
			16.63	5.30	4.1			49269

Continued.

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

DISTRICT OF VICTORIA—

1912.								
Oct.	25	Shorts	49270	J. B. Kelley, Sidney, B.C.	3 lbs	5	West. Canada F. Mills, Ltd., St. Boniface, Man.	Protein 18.38% —Fat 6.02%— Fibre 7.99%
"	25	Chop Feed.	49271	"	"	10	Brackman Ker M. Co., Ltd., Victoria, B.C.	Protein 45.0% —Fat 8.0%
"	26	Bran.	49272	Sylvester Feed Co., Victoria, B.C.	"	5	Robin Hood Mills, Ltd., Calgary, Alta.	
"	26	Shorts	49273	"	"	5	"	
"	30	Bran.	49274	Vanc. Milling & Grain Co., Ltd., Kingston and Victoria, B.C.	"	5	Vanc. M. and Grain Co., Ltd., Vanc., B.C.	
"	30	Shorts	49275	"	"	5	"	
"	30	Chop Feed.	49276	"	"	5	"	
"	30	"	49277	"	"	5	"	"Milk Feed".
"	30	"	49278	"	"	10	Pacific Oil Mills, Seattle, Wash.	"Proteing Soy Bean."
"	1	Bran.	49279	Simon Leiser & Co., Ltd., Yates St., Victoria, B.C.	"	Nil.	Vanc. M. and Grain Co., Ltd., Vanc., B.C.	
"	31	"	49280	"	"	"	Ogilvie F. Mills, Ltd., Winnipeg	

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BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		Chieftly.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.				
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.					
18.38	6.02	7.99	18.38	5.60	4.8				49270	Meets guarantee.
15.00	8.00	.....	13.00	8.44	4.3				49271	Low in proteids 2.0, special feed; technical adulterated.
.....	.....	.....	14.96	4.62	8.6	112	Wild Oats, Hare's Ear Mustard, Wild Mustard.		49272	Genuine as to food value.
.....	.....	.....	17.5	5.40	5.0				49273	Genuine.
.....	.....	.....	16.27	5.20	8.8	15	Stinkweed, Wild Mustard.		49274	"
.....	.....	.....	13.61	4.38	6.4				49275	Low in proteids. Adulterated.
.....	.....	.....	11.64	3.00	9.1	2	Ball Mustard		49276	Genuine.
.....	.....	.....	11.81	3.22	12.0				49277	"
.....	.....	.....	42.76	8.52	4.6	..			49278	Should be sold with guarantee. Doubtful.
.....	.....	.....	15.62	4.60	7.6	.....			49279	Genuine.
.....	.....	.....	14.83	4.62	9.4	256	Hare's Ear Mustard...		49280	" as to food value

APPENDIX S.

BULLETIN No. 255—SWEET SPIRIT OF NITRE.

OTTAWA, March 28, 1913.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister,
Inland Revenue.

SIR,—I beg to hand you a report upon 73 samples of Sweet Spirit of Nitre, obtained by our inspectors during December, 1912, and January, 1913.

The report shows that 41 samples contain the legal amount of Ethyl Nitrite, while 32 samples contain less than the minimum permitted by the British Pharmacopœia.

This important drug has on two former occasions been the subject of inspection, and has always been found to show a high percentage of adulteration; consisting not in the addition of foreign matters, but in containing less of the active principle (Ethyl Nitrite) than the standard set by the pharmacopœias requires.

As has been pointed out in former bulletins, and emphasized by the pharmacopœias, the article is prone to decomposition; and, unless kept with special care, will always deteriorate in the hands of the dealer. This fact is so well known to the drug trade that physicians have a right to expect special care on the part of the druggist, who is properly held responsible for the quality of the drugs he dispenses. The following table presents the results of three inspections of Sweet Spirit of Nitre:—

Bulletin.	Year.	Total samples.	Genuine.	Adulterated.
			p.c.	p.c.
167	1908	77	37	63
234	1911	74	57	43
255	1913	73	56	44

The minimum amount of Ethyl Nitrite required by the British Pharmacopœia is one and three-quarters per cent (1.75) by weight. Of the collection now reported, 44 per cent of the samples contain less than this amount; 30 per cent contain less than 1 per cent of Ethyl Nitrite; 14 per cent contain less than one-half of 1 per cent; while nearly nine per cent of the samples contain none at all.

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Although the names of the manufacturers, or furnishers, as supplied by the vendor, are given in their proper places in the appended table, it is but right to insist that responsibility for the quality of Sweet Spirit of Nitre should rest upon the immediate dealer, or vendor of the article. There is no reason to believe that any manufacturer of repute furnishes this drug otherwise than up to standard strength. The name of the manufacturer or furnisher is given in accordance with Section 19 of the Act, and not because of any proved negligence on his part.

It is abundantly evident, in view of the continued sale of this drug in a condition in which it seriously handicaps the physician, and imperils the well-being of the patient, that druggists must be made to realize their responsibility in dispensing drugs which fail to meet the standard set by the pharmacopœias.

I beg to recommend publication of this report as Bulletin 255.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

NOTE.

It seems proper to explain that there is always considerable delay in publishing the results of analysis, due to correspondence with manufacturers and vendors, involving weeks or months in some instances. In the present case, collection of samples was made by our inspectors between the 15th December, 1912, and the 30th January, 1913. The samples were contained in 2-ounce bottles and quite filled. On receipt here they were at once placed in a dark refrigerator. Analysis was begun on the 15th January, and very few samples were more than two or three weeks in storage.

Under these conditions, I cannot believe that deterioration proceeded while the samples were in the possession of the department.

Experiments made by the late Franklin T. Harrison, Public Analyst, proved that Sweet Spirit of Nitre made according to British Pharmacopœal directions can be kept, without change, for a year, under proper precautions. (See Bull No. 23, p. 7.)

If this important drug cannot be procured by physicians in such condition as the pharmacopœia requires, it should either be removed from the pharmacopœia altogether, or physicians must learn to employ it in full knowledge of its doubtful character and be prepared for most erratic and uncertain results.

The fact is that it can be prepared and kept by careful and intelligent druggists, and that this is not done must be regarded as a disgrace to the drug trade, and a very serious menace to the public.

BULLETIN No. 255—SPIRIT OF NITROUS ETHER.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.		Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.		Remarks and Opinion of the Chief Analyst.
			Quantity.	Cents.	Manufacturer.	Furnisher.	Sp. Gr. at 15° C.	Ratio of vol. of Gas to vol. of Liquid.		Ethyl Nitrite per cent by weight.	No. of Sample.	

DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.

1913.	Jan. 14	Spirit of Nitrous Ether.	46641	National Drug Co., Halifax, N.S.	6 oz.	60	Unknown	Unknown		0.840	8.96	3.26	46641	Genuine.
	" 16	"	46642	Buckley Drug Co., Halifax, N.S.	6 "	60	Nat. Drug Co., Halifax, N.B.	Mfrs.		0.859	2.77	1.01	46642	Adulterated.
	" 16	"	46643	J. McD. Taylor, Halifax, N.S.	6 "	60	Howard & Sons, London, Eng.	E. B. Sutcliffe, Halifax, N.B.		0.847	1.42	0.59	46643	"
	" 16	"	46644	Jas D. Walsh, Halifax, N.S.	6 "	50	"	"		0.848	2.52	0.91	46644	"
	" 20	"	46645	H. E. Wilson, Windsor, N.S.	6 "	40	Lyman's Ltd., Montreal.	Mfrs.		0.863	6.64	2.41	46645	Genuine.

DISTRICT OF PRINCE EDWARD ISLAND—WM. A. WEEKS, INSPECTOR.

Jan.	6	Spirit of Nitrous Ether.	46354	Geo. E. Hughes, Charlottetown, P. E. I.	6 oz.	60	Lyman's Ltd., Montreal.			0.845	3.79	1.14	46354	Adulterated.
"	7	"	46355	D. O. M. Reddin, Charlottetown, P. E. I.	6 "	60	"			0.853	2.67	0.97	46355	"
"	7	"	46356	J. G. Jamieson, Charlottetown, P. E. I.	6 "	75	Lyman's Ltd., (Special) Montreal.			0.855	2.86	1.04	46356	"
"	13	"	46357	The Two Mac's, Charlottetown, P. E. I.	6 "	60	Lyman Sons & Co., Montreal.			0.843	1.62	0.59	46357	"
"	14	"	46358	F. W. Jardine, Kensington, P. E. I.	6 "	60	Evans Sons Lescher & Webb, Ltd., Liverpool, Eng.			0.850	2.01	0.73	46358	"

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DISTRICT OF NEW BRUNSWICK—JOHN C. FERGUSON, INSPECTOR.

1912.	Dec. 19	24	Jan. 9	16	16
1912.	Dec. 19	24	Jan. 9	16	16
Spurt of Nitrous Ether.	"	"	"	"	"
59530	50531	50532	50533	50534	50535
The Nat. Drug Co., Ltd., St. John, N. B.	The Canadian Drug Co., Ltd., St. John, N. B.	Baird Co., Ltd., Woodstock, N. B.	Leffer Drug Co., Moncton, N. B.	Fairweather Bros., Moncton, N. B.	Nat. Drug Co., Ltd., St. John, N. B.
60	50	30	60	50	60
Nat. Drug Co., Ltd., Montreal	E. Merck, Darmstadt, Germany	Vendors.	Mallinckrodt Chem. Wks., St. Louis, N. Y.	Nat. Drug Co., Ltd., St. John, N. B.	Nat. Drug Co., Ltd., St. John, N. B.
0.852	0.844	0.884	0.823	0.819	0.852
7.53	7.62	7.57	9.57	5.53	7.53
2.74	2.77	2.85	3.18	2.06	2.74
50530	50531	50532	50533	50534	50535
Genuine.	"	"	"	"	"

DISTRICT OF QUEBEC—E. A. W. E. BELAND, INSPECTOR.

1912.	Dec. 18	18	18	18	18
1912.	Dec. 18	18	18	18	18
Spurt of Nitrous Ether.	"	"	"	"	"
37282 A	37283 J	37284 I	37285 W	37286 L	37287
7316 oz	805 Rue 6	7856 "	139 Rue St. Jos	516 "	
Rue St. Valer, Quebec.	St. Valer, Que.	Rue St. Joseph, Quebec.	Rue St. Jos	Rue St. Joseph, Quebec.	
50	50	40	50	60	50
W. Brunet & Co., Quebec.	Nat. Drug Co., St. Valer, Que.	E. P. Shurdeworth, Toronto, Quebec.	W. Brunet & Co., St. Jos.	Mallinckrodt Chem. Co., Quebec.	W. Brunet & Co., Quebec.
0.950	0.827	0.951	0.927	0.828	0.950
0.00	5.18	0.00	0.00	5.08	0.00
0.00	2.00	0.00	0.00	1.87	0.00
37282	37283	37284	37285	37286	37287
Adulterated ethyl nitrite.	Genuine	Adulterated ethyl nitrite.	"	Genuine.	"

BULLETIN No. 255—SPIRIT OF NITROUS ETHER.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.		Quantity.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			Remarks and Opinion of Chief Analyst.	
			Name of Vendor.	Address of Vendor.		Cents.	Quantity.	Manufacturer.	Furnisher.		Sp. Gr. at 15° C.	Ratio of vol. of Gas to vol. of Liquid.	Ethyl Nitrite per cent by weight.		No. of Sample.
1912.															
Dec.	24	Spirit of Nitrous Ether	53306	L. J. Mareau, Rimouski.	Ri-6 oz.	50			L. McEwen Co., Montreal.		0.831	6.36	2.53	53306	Genuine.
"	24	"	53307	F. T. Lepage, Rimouski.	Ri-6 "	50			Howard & Sons, Stratford, Ont.		0.845	1.90	0.70	53307	Adulterated.
"	26	"	53310	E. O. Clouthier, Fraserville.	6 "	75			W. Brunet, Quebec.		0.946	0.00	0.00	53310	Adulterated. No ethyl nitrite.

DISTRICT OF EASTERN QUEBEC—A. PELLETIER, INSPECTOR.

DISTRICT OF EASTERN TOWNSHIPS—J. J. COSTIGAN, ACTING INSPECTOR.

1913.															
Jan.	28	Spirit of Nitrous Ether	51151	D. Richard, Sherbrooke, P.Q.	Sher-6 oz.	65			Lynnan Knox Co., Montreal.		0.834	6.50	2.36	51151	Genuine.
"	29	"	51152	E. C. Drolet, atcook.	Co-6 "	50			Nat. Drug & Chem. Co., Ltd.		0.857	5.12	1.90	51152	"
"	30	"	51153	J. C. Stockwell, Danville, P.Q.	6 "	50			Lynnan's Ltd.		0.844	5.80	2.11	51153	"
"	30	"	51154	J. A. Viger, Hyacinthe, P.Q.	St-6 "	45			"		0.857	2.47	0.90	51154	Adulterated.
"	30	"	51155	J. H. E. Brodeur, St. Hyacinthe, P.Q.	6 "	60			"		0.850	0.44	0.16	51155	"

DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.

1912.										
Dec. 31	Spirit of Nitrous Ether.	51071	H. R. Huot, Lan-rier ave. west, Montreal.	60	Lymans Ltd.	0 839	1 78	0 65	51071	Adulterated.
" 31	"	51072	J. H. Harce, 216 Laurierave, west, Montreal.	60	Nat. Drug & Chem. Co., Ltd.	0 812	7 26	2 44	51072	Genuine.
" 31	"	51073	F. E. Morgan, 168 Fairmount ave west, Montreal.	60	"	0 850	6 31	2 30	51073	"
" 31	"	51074	Fairmount Mod-ical Hall, 2908 Clarke st., Montreal.	60	"	0 854	7 26	2 64	51074	"
" 31	"	51075	Queneville & Guerin, 2903 St. Lawrence Blvd., Montreal.	60	"	0 830	6 08	2 21	51075	"

DISTRICT OF OTTAWA—J. A. RICEY, INSPECTOR.

Dec. 23	Spirit of Nitrous Ether.	51672	Chas. A. Adams, Kompyville.	60	T. Chamberlain & Co., Prescott.	0 437	0 00	0 90	51672	Adulterated.
" 24	"	51673	M. R. MacFarlane, Almonte.	60	Lymans Ltd., Montreal.	0 871	1 82	0 66	51673	Adulterated.
" 26	"	51674	The Ottawa Pharmacy, Ltd., Dalhousie-st., Ottawa.	30	Vendors	0 831	2 67	0 97	51674	"
" 27	"	51675	La Pharmacie Moderne, Ltd., Hull, P.Q.	70	Nat. Drug & Chem. Co., Ltd., Ottawa.	0 850	2 25	0 82	51675	"
" 30	"	51676	D. J. Stalker, druggist, Ottawa.	60	"	0 857	5 20	1 80	51676	Genuine.

BULLETIN No. 255—SPIRIT OF NITROUS ETHER.

Date of Collection	Nature of Sample	No. of Sample	Name and Address of Vendor	Quantity	Cost	Name and Address of Manufacturer or Furnisher as given by the Vendor		Inspector's Report, (Is not an expression of opinion)	Results of Analysis		Remarks and Opinion of the Chief Analyst
						Manufacturer	Furnisher		Sp. Gr. at 15° C.	Ratio of Vol. of Gasol. of Liquid		Ethyl Nitrite per cent by weight	No. of Sample

DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.

1912.													
Dec. 18	Spirit of Nitrous Ether	53021	D. G. Barker, 6 oz., Belleville.	20		Nat. Drug Co., Toronto.			0.887	5.05	1.84	53021	Genuine.
" 18	"	53022	D. M. Waters, 6 " Belleville.	35		Vendor			0.875	5.50	2.00	53022	"
" 18	"	53023	O. G. Johns, Co., 6 " O. G. Johns, Co., 6 " Port Hope.	50		Howard			0.845	3.74	1.36	53023	Adulterated.
" 18	"	53024	T. G. Watson, 6 " Port Hope.	60		Nat. Drug Co., Toronto.			0.845	6.50	2.30	53024	Genuine.
" 19	"	53025	C. M. Moncur, 6 " Peterboro.	70		"			0.864	4.75	1.73	53025	"

DISTRICT OF TORONTO—H. J. DAGGER, INSPECTOR.

1913.													
Jan. 13	Spirit of Nitrous Ether	51571	A. E. Gregory, 158 6 oz., Main St., East, Toronto.	30		Vendor			0.895	1.63	0.61	51571	Adulterated.
" 14	"	51572	J. A. Gallagher, 6 " Jones and Gerard Sts., Toronto.	35		Drug Trading Co., Ltd., Toronto.			0.959	0.00	0.00	51572	" ethyl nitrite.
" 14	"	51573	W. A. Hertel, 6 " Lansdown and Wallace Sts., Toronto.	50		Nat. Drug & Chem. Co., Ltd., Toronto.			0.919	0.31	0.14	51573	Adulterated.
" 14	"	51574	Mackenzie Brown, 282 Reger Ave., Toronto.	35		Unknown			0.918	0.35	0.13	51574	"
" 14	"	51575	C. J. Stoddart, 1781 Dundas St. West, Toronto.	50		Lyman Bros. & Co., Ltd., Toronto.			0.918	2.83	1.03	51575	"

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DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.

Jan.	2	Spirit of Ni- trous Ether	47906 W. T. Rapley & 12 oz 195 Co., Stratford,	Nat. Drug Co., London.	0 84	5 21	1 91	47906	Genuine.	
"	3	"	47908 T. H. Hyne Wood, 6 "	Nat. Drug Co., Hamilton.	0 825	7 18	2 61	47908	"	
"	3	"	47913 E. A. Rex, Wood 6 "	Vendor	0 872	10 20	3 73	47913	"	
"	6	"	47918 E. C. Harvey, St. 6 "	Thomas	Made from concen- trated ether.	0 828	3 39	1 47	47918	Adulterated.
"	6	"	47921 F. P. Reynolds, St. 6 "	Thomas	Lyman Bros., To- ronto.	0 828	9 40	3 43	47921	Genuine.

DISTRICT OF MANITOBA—H. ASHTON, ACTING INSPECTOR.

Jan.	31	Spirit of Ni- trous Ether	48801 C. A. Baird, Gros 6 oz 75	Madhockrook, New York.	0 826	7 41	2 69	48801	Genuine.
"	31	"	48802 Brookings Drug 6 "	Store, 751 Coy- don, Winnipeg.	0 813	10 69	3 67	48802	"
"	31	"	48803 F. L. Brown, 551 6 "	Palmbina, Wis- consin.	0 832	8 76	2 39	48803	"
"	31	"	48804 B. C. Jubay, Penn 6 "	Palmbina, Wis- consin.	0 831	9 61	3 58	48804	"
"	31	"	48805 F. E. Seale, 226 6 "	Nat. Drug & Chem- ical Co. of Canada, River Ave., Win- nipeg.	0 827	1 57	1 67	48805	Adulterated.

DISTRICT OF ROCKY MOUNTAINS—THOS PARKER, INSPECTOR.

Jan.	3	Spirit of Ni- trous Ether	49793 Union Drug Store, 6 oz.	Nat. Drug Co., Grand Forks, B.C.	0 845	2 88	1 06	49793	Adulterated.
"	3	"	49794 Woodland & Co., 6 "	Maya Baker, Lon- don, Eng.	0 848	5 00	1 82	49794	Genuine.
"	8	"	49802 Canada Drug & B. 6 "	Nat. Drug Co., Vancouver, B.C.	0 829	8 25	3 00	49802	"
"	8	"	49803 Pacific Drug Co., 6 "	Mal Truck road Chem. Works, S.S. Louis, Missouri.	0 829	8 02	2 98	49803	"
"	8	"	49804 Rutland Drug 6 "	Maya Baker, Lon- don, Eng.	0 841	7 56	2 75	49804	"

BULLETIN No. 255—SPIRIT OF NITROUS ETHER.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.		Cost.	Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			Remarks and Opinion of the Chief Analyst.
			Name and Address of Vendor.	Name and Address of Vendor.		Manufacturer.	Furnisher.		Sp. Gr. at 15° C.	Ratio of vol. of Gas to vol. of Liquid	Ethyl Nitrite per cent by weight.		No. of Sample.
1913. Jan. 22	Spirit of Nitrous Ether.	38484	W. E. Almas, Pen-der & Burrard Sts., Vancouver, B.C.	6 oz.	90	Vendor	Made from Mallinckrodt's concentrated nitrous ether.	0.829	8.68	3.16	38484	Genuine.
" 22	"	38485	Campbell's Ltd., Drug Co., Granville & Hastings Sts., Vancouver, B.C.	6 "	75	Vendors	"	0.832	9.92	3.61	38485	"
" 22	"	38486	Owl Drug Store, Dunsmuir & Granville Sts., Vancouver, B.C.	6 "	75	"	"	0.835	4.51	1.64	38486	Adulterated.
" 22	"	38487	Vancouver Drug Co., Granville St., Vancouver, B.C.	6 "	75	Vendors	Made from Mallinckrodt's concentrated nitrous ether.	0.830	10.41	3.78	38487	Genuine.
" 22	"	38488	Leslie Henderson, Georgia & Granville Sts., Vancouver, B.C.	6 "	75	Nat. Drug & Chem. Co., Vancouver, B.C.	"	0.822	9.54	3.47	38488	"

DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.

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DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.

Jan.	28	Spirit of Nitrous Ether	53508 F. J. Williams, 613 1/2 oz., Fort St., Victoria B.C.	35	Vendor	0.832	6.25	2.27	53508	Genuine.
	28	"	53509 D. E. Campbell, 650 6 oz., Fort St., Victoria B.C.	75	Burkyne Par-bridges, London, Eng.	0.846	5.61	2.06	53509	"
	28	"	53510 Terry's Drug Store, 705, Fort St., Victoria, B.C.	50	Vendor	0.993	0.07	0.02	53510	Adulterated.
	28	"	53511 Central Drug Store 6 oz., 702 Gates St., Victoria, B.C.	75	Lynam's Ltd., Montreal.	0.839	1.26	1.55	53511	"
	28	"	53512 John Cochrane, 6 oz., 1300 Douglas St., Victoria, B.C.	75	May & Baker, London, Eng.	0.843	6.78	2.46	53512	Genuine.

Made from concentrated nitrous ether supplied by Mallinckrodt, St. Louis, Missouri.

Made from concentrated nitrous ether supplied by Mallinckrodt, St. Louis, Missouri.

APPENDIX T.

BULLETIN No. 256—OLIVE OIL.

OTTAWA, March 28, 1913.

WM. HIMSWORTH, Esq.,

Acting Deputy Minister, Inland Revenue.

SIR,—I beg to hand you a report upon thirty-six samples of Olive Oil, purchased in certain districts of Canada by our Inspectors, during December of last year and January of this year.

Definitions for Edible Vegetable Oils were legalized by Order in Council of March, 1912; and are published as Circular G. 1002.

ES.
FOOD.

G. 1002.
10,000.

DEPARTMENT OF INLAND REVENUE.

OTTAWA, April 9, 1912.

MEMORANDUM.

Under the authority of an Order of His Royal Highness, in Council, bearing date the twenty-eighth day of March ultimo, and in virtue of the provisions of the twenty-sixth section of the "Adulteration Act," the following standards of quality have been established for "Edible Vegetable Oils":—

EDIBLE VEGETABLE OILS.

1. *Olive Oil, Sweet Oil*, is entirely a product of the fruit of the olive tree.
 - Its specific gravity, at 15.5°C., is not less than 0.9140 nor more than 0.9196.
 - Its specific refractive index, at 15.5°C., is not less than 1.4700 nor more than 1.4718.
 - Its Mannene number lies between 42 and 52.
 - Its iodine absorption number (using the Hubl solution) lies between 77% and 94%.
 - Its saponification number (Koettstorfer number) lies between 185.0 and 195.0.
 - It does not contain above 3.5% of free fatty acids.

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2. *Cotton seed oil* is the oil obtained from the seeds of cotton plants and subjected to refining processes. It is free from rancidity; has specific gravity, at 15·5°C., between 0·9216 and 0·9300; has a refractive index (at 25°C.) not less than 1·4700 and not more than 1·4725, and an iodine number not less than 104 nor more than 110 (Huhl solution).
3. *Salad oil*. Either of the above may be sold as salad oil; but when Cotton Seed Oil is offered as Salad Oil, the fact that the article is Cotton Seed Oil must be declared on the label.
4. Mixtures of *Cotton Seed Oil* with *Olive Oil* must be so declared on the label.

The standards above defined take effect on the 13th May proximo.

W. J. GERALD,

Deputy Minister.

Two samples of the present collection are found to be adulterated, as containing cotton seed oil.

The following synopsis of inspections of Olive Oil is instructive:—

Date.	Bulletin.	Total samples.	Percentage adulteration.
1889.....	67	75	40
1905.....	111	108	15
1908.....	159	82	19
1911.....	229	152	8
1913.....	256	36	6

It is apparent that there has been great improvement in the character of Olive Oil sold in Canada since the date of first inspection in 1889.

I beg to recommend publication of this report as Bulletin No. 256.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,

Chief Analyst

BULLETIN No. 256—OLIVE OIL.

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		Refractive Index at 15.5°C.	Iodine number.	Nitric Acid Colour test.	Halphen colour test.		No. of Sample.

DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.

1913.	Jan. 14	Olive Oil.	46646	N. at. Drug Co., Halifax, N. S.	20 oz.	150	Unknown	Evans Sons, Leecher & Webb, Liverpool, Eng		1.4707	Green		46646	Genuine.
"	17	"	46647	Wentzells, Ltd., Halifax, N. S.	2 "	65	A. Gilbert & fils, France.	"		1.4706	"		46647	"
"	17	"	46648	Baard Bros., Ltd., Halifax, N. S.	2 "	69	Holbrook Co., London, Eng.	"		1.4706	"		46648	"
"	17	"	46649	John Tobin & Co., Halifax, N. S.	2 "	40	Lazenby & Son, London, Eng.	"		1.4706	"		46649	"
"	17	"	46650	R. B. Scotton & Co., Halifax, N. S.	2 "	60	Crosse & Blackwell, London, Eng.	"		1.4704	"		46650	"

DISTRICT OF QUEBEC—F. N. W. E. BELAND, INSPECTOR.

1912.	Dec. 18	Olive Oil.	37287	A. Martineau, Rue St. Valier, Quebec.	3 bots	75	Utric Francoeur, Hillhurst, P.Q.	Lemieux Brunet & Cie.		1.4708	Green		37287	Genuine.
"	18	"	37288	Jos. Masson, Rue St. Valier, Quebec.	3 "	75	"	Mr.		1.4709	"		37288	"
"	18	"	37289	J. B. Geroux, Rue St. Joseph, Quebec.	1 qt.	120	"	"		1.4707	"		37289	"
"	19	"	37290	W. Bennet & Cie, 139 Rue St. Joseph, Quebec.	3 bots	75	"	"		1.4707	"		37290	"
"	19	"	37291	L. E. Martel, Rue St. Joseph, Quebec.	1 qt.	90	Comp. Lacroix & Roger, Quebec.	"		1.4705	"		37291	"

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DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.

1913.	7	Olive Oil	51076	A. Poirras, 17 3 bats 105 Mount Royal Ave., E. Mont- real.	E. & A. Jones, Ka- hart, France.	1 4704	Green	51076	Genuine.
"	7	"	51077	H. Gerson, 413 Co. 3 Jonial Ave. Mont- real.	Jos. Edelberg, Montreal.	1 4737	Brown	51077	Adulterated
"	7	"	51078	Albert Smith, 20 3 Prince-Arthur St. W., Montreal.	Holbrook & Co., Nice, France.	1 4704	Green	51078	Genuine.
"	7	"	51079	"	H. J. Heinz & Co., Oil.	1 4706	"	51079	"
"	7	"	51080	C. Solomon, 20 3 Vitre St., West, Montreal.	Superfine-Olive-Oil, Made in Italy.	1 4704	"	51080	"

DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.

1912.	23	Olive Oil	51667	Mundie & Prevail 3 bats Kemptville.	E. Leabon, Nic	1 4742	Brown	51667	Adulterated.
"	27	"	51668	La Pharmacie Mac- denné, Hull, P. Q.	21 oz., 120 Nat. Drug & Chem. Mfrs Co., Ottawa.	1 4704	Green	51668	Genuine.
"	30	"	51669	D. J. Stalke, 3 bats 105 Druggist, Ottawa	"	1 4704	"	51669	"
"	31	"	51670	T. E. Macdonald, 3 Somerset St., Ot- tawa.	H. J. Heinz, Pitts- burg, Pa.	1 4706	"	51670	"
1913.	2	"	51671	Calderone & Bossio, 3 Bank St., Otta- wa.	Via Mandra Termini Imese Italy.	1 4698	"	51671	"

BULLETIN No. 256—OLIVE OIL.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				Remarks and Opinion of the Chief Analyst.
			Quantity.	Cost.	Manufacturer.	Furnisher.		Refractive Index at 15°C.	Iodine number.	Nitric Acid Colour test.	Sulphur Colour test.	
1912.												
Dec. 20	Olive Oil.	51576	W. Stansfield, 379 3/4 Church St., Toronto.	75	B. U. Delapalma & Co., Toronto	Labelled sublimation. A. Gaillard & fils, Marseille, France	1-4704	Green				51576 Genuine.
" 20	"	51577	The Carter Drug Co., 697 Queen St. West, Toronto.	30	Bottled by Vendors.	Labelled Olive surfine clarifiee.	1-4708	"				51577 "
" 24	"	51578	A. G. T. Robinson, 898 Queen St. East, Toronto.	75	W. G. Patrick & Co., Toronto.	Labelled Olive surfine clarifiee.	1-4706	"				51578 "
" 27	"	51579	J. H. Sloan, 528 Yonge St., Toronto.	50	Drug Trading Co., Ltd., Toronto.	Labelled Olive surfine clarifiee. B. Fong, Bordeaux, France	1-4707	"				51579 "
" 27	"	51580	W. H. Worden, 648 3/4 Yonge St., Toronto.	65	Lyman Bros. & Co., Ltd., Toronto.		1-4704	"				51580 "

DISTRICT OF TORONTO—H. J. DAGGER, INSPECTOR.

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DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.

1913.								
Jan. 23	Olive Oil.	38489	London Grocery Co. Factory Branch, Vancouver, B.C.	75	Cross & Blackwell, London, Eng.	Guaranteed pure Olive Oil from the District of Lucca.	Green	38489 Genuine.
"	"	38490	Brody & Carlaw, 26th Ave. & Granville, Vancouver, B.C.	75	John Vittori, Italy.	This Oil is made from selected ripe Olives and is guaranteed to be absolutely pure.	"	38490 "
"	"	38491	Harrison's Drug Store, 7th Ave & Granville, Vancouver, B.C.	75	Unknown Vendors.		"	38491 "
"	"	38492	Broadway Pharmacy, Fairview, Vancouver, B.C.	75	Antoine Gimat	H. Lyman & Co. Montreal Olive Oil.	"	38492 "
"	"	38493	Burns & Carrus, Vancouver Block, Vancouver, B.C.	105	Tessier Freres, Paris, France.	Guaranteed pure.	"	38493 "

DISTRICT OF VICTORIA D. OSULLIVAN, INSPECTOR.

Jan. 13	Olive Oil.	49282	Windsor Grocery Co., 317 Gwy St., Victoria, B.C.	50	American Olive Co., Los Angeles, Cal.	American pure Olive Oil.	Green	49282 Genuine.
"	"	49285	The West End Grocery Co., 1401 Gwy. St., Victoria, B.C.	75	John Vittori & Co., Vancouver & Seattle.	Mary of Italy Brand.	"	49285 "
"	"	49288	Dr. J. Ross & Co., 1317 Gwy. St., Victoria, B.C.	130	J. C. Nyberg, Redlands, Cal.	Redman Club Brand.	"	49288 "
"	"	49289	"	125	Chico Co., Berkeley, France.	Pinard Brand Olive Oil.	"	49289 "
"	"	49292	Harrison & Mc Donald, 1248 Douglas St., Victoria, B.C.	70	W. G. Patrick & Co., Vancouver, B.C.		"	49292 "
"	"	49293	"	126	L. Noel & Sons, Ltd., London, Eng.	First Extra Olive Oil.	"	49293 "

APPENDIX U.

BULLETIN No. 257—MILK POWDERS AND CONDENSED MILK.

OTTAWA, March 31, 1913.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister,
Inland Revenue.

SIR,—I beg to submit herewith a report dealing with thirty (30) samples sold as condensed milks—of which number seven (7) are condensed without sugar, and should be offered as evaporated milk (see G. 934); and fifteen (15) samples of milk powders.

Condensed milk is required by Order in Council of November 3, 1910, to meet the following requirements:—

‘Condensed milk is milk from which a considerable portion of water has been evaporated, and to which sugar has been added. It contains not less than 28 per cent of milk solids, and not less than 7.7 per cent of milk fat.’

No. 49150 contains only traces of fat; and is made from skimmed milk.

No. 38335 contains only 3.85 per cent of fat, and is made from milk which has been partly skimmed.

The labels of these samples claim that they are genuine whole milk products. Hence they must be regarded as adulterated under the Act.

In three samples (Nos. 49146-7-8) the fat is slightly below standard. The deficiencies, however, are not great, and may not exceed such natural variations as season and locality introduce. In eight (8) samples the fat varies from 5.80 to 7.12 per cent. These must be regarded as adulterated under the Act, although they represent brands which generally give a good account of themselves. It is to be noted that, even within the limits of the present collection, the average results for such of these brands as are represented by several samples is creditable.

Thus, Borden’s Condensed Milk is represented by the following:—

Sample No. 49641.	Fat: 8.08 per cent.
“ 49642.	“ 8.85 “
“ 49656.	“ 6.35 “
“ 49657.	“ 9.05 “
“ 49668.	“ 7.10 “
“ 49669.	“ 6.95 “
“ 38331.	“ 8.40 “
“ 38332.	“ 9.72 “
“ 49145.	“ 9.05 “
“ 49147.	“ 7.55 “

Mean of 10 samples—8.11 per cent.

The Reindeer Brand is represented by:—

Sample No. 49649.	Fat: 6.80 per cent.
“ 49667.	“ 7.87 “
“ 38336.	“ 7.12 “
“ 49146.	“ 7.42 “

Mean for 4 samples—7.30 per cent.

The St. Charles Condensed Milk shows as follows:—

Sample No. 49655.	Fat: 7.90 per cent.
“ 49666.	“ 8.00 “
“ 38334.	“ 7.05 “
“ 49148.	“ 7.38 “
“ 49153.	“ 7.82 “

Mean of 5 samples—7.63 per cent.

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Summary of condensed milk samples:—

Meet requirements in full.	10 samples.
Meet requirements, nearly.	3 "
Below standard more than 0.5 per cent.	8 "
Adulterated as skimmed.	2 "
	—
Total.	23 "

Evaporated milk is defined as follows:—

'Is milk from which a considerable portion of water has been evaporated, and contains not less than 26 per cent of milk solids, and not less than 7.20 per cent of milk fat.'

Out of seven (7) samples, only one fails to meet the required standard, viz.: No. 38333, which falls 0.70 too low in fat, and 2.23 too low in milk solids.

Two other samples (38338 and 49151) are technically adulterated as being labelled 'Cream.' The explanatory words 'An unsweetened condensed milk,' appear in small type upon the label, but are comparatively inconspicuous.

Our standards require cream to contain at least 18 per cent of milk fat; and condensed cream to contain at least 25 per cent of fat (G. 934).

Milk powder is defined by standards published in December, 1910, (see G. 934) as follows:—

The soluble powder product made from milk, and contains, unless otherwise specified, not less than ninety-five (95) per cent of milk solids, and not less than twenty-six (26) per cent of milk fat.

All samples obtained by our inspectors appear to be the products of one manufacturer, and to be sold under the names *Trumilk* and *Milk Stock*, the first being a whole milk product; the second a skimmed milk. A single sample (No. 41165) sold as modified milk powder, represents an intermediate product, the result of drying a partly skimmed milk.

Ten samples sold as *Trumilk* and guaranteed as whole milk powders averages 26.76 per cent of fat; and vary among themselves as follows:—28.10, 27.61, 27.53, 27.48, 27.36, 27.23, 26.81, 26.61, 25.66, 23.22. With exception of the last two samples they meet the requirements of our standard; and the deficiency in the ninth sample is less than one-half of one per cent.

One sample only (No. 38326) falls more than one per cent below the standard, (deficiency: 2.78 per cent) and is evidently manufactured from a milk of inferior quality.

Milk stock (skimmed milk) appears to be of very uniform quality, and is true to the claims made for it.

The collection herein was made in April and May of last year, and should have been reported long ago.

Press of other work caused it to be delayed, in favour of work which could not so well be held over.

I beg to recommend publication of this report as Bulletin No. 257.

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.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NELSON—

1912.								
April	18	Condensed Milk.	49641	Cooper & Christine, Vernon, B.C.	3 tins.	45	Borden Condensed Milk Co., Tillsonburg.	
"	18	"	49642	"	3 "	45	"	
"	18	"	49649	W. H. Smith, Ver non, B.C.	3 "	45	Reindeer, Ltd., Truro, N.S.	
"	18	"	49655	W. R. Megaw, Ver non, B.C.	3 "	40	St. Charles Condensing Co., Ingersoll.	
"	18	"	49656	"	3 "	40	Borden's Condensed Milk Co., Tillsonburg.	
"	18	"	49657	"	3 "	45	"	
May	2	"	49666	Hudsons, Bay Co., Nelson, B.C.	3 "	40	St. Charles Condensing Co., Ingersoll.	
"	2	"	49667	"	3 "	45	Reindeer, Ltd., Truro, N.S.	
"	2	"	49668	Bell Trading Co., Nelson, B.C.	3 "	45	Borden's Condensed Milk Co., Tillsonburg.	
"	2	"	49669	"	3 "	45	"	

DISTRICT OF VANCOUVER—

May	1	Condensed Milk.	38331	Woodward, Dept. Stores, Vancouver, B.C.	3 tins.	40	Borden & Co., New York.	"Gold Seal" Brand prepared from pure cream milk.
"	1	"	38332	Dom. Grocery, Vancouver, B.C.	3 "	45	"	"Eagle" Brand Condensed milk combined with best refined sugar
"	1	"	38333	F. Filion, Vancouver, B.C.	3 "	15	St. Charles Milk Co., Ingersoll.	Prepared from pure rich milk only.
"	1	"	38334	W. Clark, Vancouver, B.C.	3 "	40	St. Charles Condensing Co., Ingersoll.	Prepared from finest milk and best granulated sugar.
"	1	"	38335	A. C. Barlag, Fairview, Vancouver.	3 "	45	J. Malcolm, Son, St. Georges, Ont.	Every can guaranteed until used.
"	6	"	38336	J. S. Hirst, Vancouver, B.C.	3 "	45	Reindeer Ltd., Truro, N.S.	Every can guaranteed.
"	6	"	38337	D. B. Irwin, Vancouver, B.C.	3 "	15	Dom. Camers Ltd., Hamilton.	"Quaker" Brand.

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CONDENSED MILK.

Results of Analysis.

Density.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	Loss to 500 cc. warm water.	Calculated on 9% basis.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
							Concentration.	Fat in original bulk.		
THOS. PARKER, INSPECTOR.										
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
1 3181	25.45	71.55	1.80	8.05		59.50	...	...	4961	Meets standard.
1 3129	26.10	73.90	1.66	8.85		56.90			4962	"
1 3108	30.53	69.47	1.82	6.80		61.00			4964	Fat too low.
				7.90					4955	Meets standard in fat.
1 3123	27.50	72.50	1.75	6.35		58.20			4956	Fat too low.
1 3009	26.80	73.20	1.61	9.05		57.10			4967	Meets standard.
1 3080	26.90	73.10	1.87	8.00		57.10			4966	"
1 3076	26.75	73.25	1.66	7.87		58.92			4967	"
				7.10					4968	Fat too low.
				6.95					4969	"
J. F. POWER, INSPECTOR.										
1 3129	26.45	73.55	1.72	8.40		58.50			38331	Meets standard.
1 2960	27.28	72.72	1.86	9.72		55.62			38332	"
1 0687	76.33	23.77	1.50	6.50	9.93		1.09	3.38	38333	Fat too low. Non-sugared.
1 2994	29.58	70.42	1.88	7.05		56.45			38334	Fat too low.
1 3128	30.10	69.90	1.70	3.85		58.70			38335	Partially skimmed milk adulterated.
1 3044	29.80	70.20	1.58	7.12		56.40			38336	Fat too low.
1 0748	71.30	28.70	1.85	7.80	10.07		2.42	3.36	38337	Meets standard. Non-sugared.

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

DISTRICT OF VANCOUVER—

1912.								
May	6	Condensed Milk.	38338 T. W. Turner, Vancouver, B.C.	3 tins.	45	Pacific Coast Condensing Co., Seattle, Wash.		We guarantee this can containing no substance but fresh pure sweet milk.
"	6	"	38339 Webber & Webber, Vancouver, B.C.	3 "	25	Canada First Mfg. Co.		Every can guaranteed.
"	6	"	38340 A. & C. Grocery, Vancouver, B.C.	3 "	30	B. C. Milk Products Co., Westminster, B.C.		Complies with all requirements of Pur Food Laws.

DISTRICT OF VICTORIA—

April	23	Condensed Milk.	49145 Windsor Grocery Co., Ltd., Victoria, B.C.	3 tins	45	Borden's Condensed Milk Co., New York		"Gold Seal".
"	23	"	49146 " "	3 "	45	Reindeer, Ltd., Truro, N.S.		"Reindeer".
"	24	"	49147 The West End Grocery Co., Ltd., Victoria, B.C.	3 "	45	Borden's Condensed Milk Co., New York		"Eagle".
"	24	"	49148 " "	3 "	35	St. Charles Condensing Co., Ingersoll.		"Purity".
"	24	"	49149 " "	3 "	35	Aylmer Condensed Milk Co., Aylmer, Ont.		"Canada First".
"	24	"	49150 Harrison & McDonald, Victoria, B.C.	3 "	30	W. O. Wallace, Victoria, B.C.		"Coach".
"	25	"	49151 W. B. Hall, Victoria, B.C.	3 "	25	Pacific Coast Condensed Milk Co., Seattle, Wash.		"Carnation".
"	25	"	49152 D. H. Ross & Co., Victoria, B.C.	3 "	40	Truro Condensed Milk Co., Truro, N.S.		"Mayflower".
"	25	"	49153 Copas & Young, Victoria, B.C.	3 "	40	St. Charles Condensing Co., Ingersoll.		"Purity".
"	25	"	49154 E. G. Bailey, Victoria, B.C.	3 "	15	Borden's Condensed Milk Co., New York		"Peerless".

SESSIONAL PAPER No. 14

CONDENSED MILK.

Results of Analysis.

Density.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	Loss to 500 cc warm water.	Calculated on 9% basis.		No. of Sample	Remarks and Opinion of the Chief Analyst.
							Concentration.	Fat or cream in milk.		
<i>Concluded.</i>										
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
1 0587	71.98	25.02	1.63	8.35	9.78		1.95	4.50	38338	Adulterated, in being labelled Cream. Is a good evaporated milk.
1 0537	74.13	25.87	1.65	7.35	10.49		2.11	3.57	38339	Meets standard. Non-sugared.
1 0704	70.57	29.43	1.39	7.80	9.01		2.40	3.24	38340	
<hr/>										
D. O'SULLIVAN, INSPECTOR.										
1 2992	27.15	72.85	1.86	9.05		55.90			49145	Meets standard.
1 3049	29.03	70.97	1.75	7.42		57.22			49146	Slightly below standard in fat.
1 3158	26.93	73.07	1.52	7.55		59.22			49147	1988.
1 3130	27.62	72.38	1.70	7.38		58.92			49148	
1 3081	28.30	71.70	1.61	5.80		57.85			49149	Fat too low. Adulterated.
1 3644	30.00	70.00	1.72	traces		63.15			49150	Adulterated.
1 0594	74.38	25.62	1.42	8.95	9.83		2.01	1.84	49151	Adulterated, in being labelled Cream. Is a good quality milk.
1 3053	28.60	71.40	1.61	6.50		56.35			49152	Fat too low. Adulterated.
1 2986	29.50	70.50	1.88	7.82		54.20			49153	Meets standard.
1 0643	72.60	27.40	1.65	7.90	10.80		2.23	3.33	49154	non sugared.

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

DISTRICT OF MANITOBA—

1912.								
April 16	Truimilk...	48646	Duncan & Hunter, St. James.	3 tins.	45	Canadian Milk Products, Ltd., Toronto.	Unknown	
" 17	"	48647	W. A. Bartram, Portage Ave., Winnipeg.	3 "	38	" "	"	
" 17	"	48648	J. Paterson, Port- age Ave., Win- nipeg.	3 "	38	" "	"	
" 18	"	48649	A. Hendry, Port- age Ave., Win- nipeg.	3 "	60	" "	"	
" 18	"	48650	R. F. Graham, Portage Ave., Winnipeg.	3 "	45	" "	"	

DISTRICT OF CALGARY—

May 7	Milk Powder.	44165	Jackson & Co., Lethbridge.	3 tins.	75	Canadian Milk Products, Ltd., Toronto.		
" 10	Milk Stock	44166	Donnelly Watson & Browne Co., Ltd., Calgary.	3 "	30	" "		Milk Stock...
" 10	Truimilk...	44167	" "	3 "	30	" "		Truimilk.....
" 10	Milk Stock	44168	John Irwin Co., Ltd., Calgary.	3 "	40	" "		Milk Stock....
" 10	Truimilk...	44169	" "	3 "	40	" "		Truimilk.....

DISTRICT OF NELSON—

April 18	Milk Powder.	49654	W. R. Megaw	3 tins.	45	Canadian Milk Products, Ltd., Toronto.		
----------	-----------------	-------	-------------	---------	----	--	--	--

SESSIONAL PAPER No. 14

MILK POWDERS.

Results of Analysis.

Moisture.	Total Solids.	Ash.	Fat.	Milk Sugar.	Proteins.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
A. C. LARIVIERE, INSPECTOR.							
1.96	98.97	5.65	27.75	36.97	27.92	48646 W.	Genova
2.01	97.96	5.89	27.48	36.57	28.04	48647	
1.81	98.19	6.28	26.84	33.49	31.67	48648	
2.11	97.87	5.75	26.63	33.29	32.21	48649	
1.44	98.96	5.69	27.23	34.30	31.64	48650	
R. W. GLEITCHER, INSPECTOR.							
2.34	97.66	7.05	41.28	40.34	38.99	44165	Milk powder, Pacific States milk Co., Genova
4.64	95.36	7.21	6.91	45.55	41.69	44166	Separated milk, Genova
1.73	98.27	5.79	27.36	36.87	28.25	44167	Whole milk, Genova
1.87	95.43	7.28	6.92	44.67	42.24	44168	Separated milk, Genova
1.98	98.02	5.90	27.61	33.67	30.84	44169	Whole milk, Genova
THOS. PARKER, INSPECTOR.							
2.98	97.02	5.37	28.10	33.75	29.79	49654	Whole milk, Genova

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

DISTRICT OF VANCOUVER—

1912.								
May 1	Milk Powder.	38326	H. A. Edgett, Vancouver, B.C.	3 tins.	45	Canadian Milk Products, Ltd., Toronto.	.....	Trumilk contains no sugar preservatives, chemicals or adulterations of any kind.
" 1	Milk Powder.	38327	London Grocery Co., Vancouver, B.C.	3 "	45	" "	.....	Milkstock contains no sugar preservatives, chemicals or adulterations of any kind.

DISTRICT OF VICTORIA—

April 24	Trumilk...	49155	The West End Grocery Co., Ltd., Victoria, B.C.	3 tins.	45	Canadian Milk Products, Ltd., Toronto.	.....	.....
" 24	Milk Stock	49156	Harrison & McDonald, Victoria, B.C.	3 "	40	" "	.....	.....

SESSIONAL PAPER No. 14

MILK POWDERS.

Results of Analysis.

Moisture.	Total Solids.	Ash.	Fat.	Milk Sugar.	Protein.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
1.55	98.45	5.94	23.22	34.55	32.64	8326	Whole milk. Slightly below standard.
5.27	94.45	7.37	9.06	45.05	41.37	8327	Separated milk. Genuine.
3.96	96.04	5.64	25.66	34.32	31.64	19155	Whole milk. Genuine.
5.43	94.57	7.37	1.32	44.67	41.21	19156	Separated milk. Genuine.

J. E. POWER, INSPECTOR.

D. O'SULLIVAN, INSPECTOR.



REPORT

OF THE

MINISTER OF AGRICULTURE

FOR THE

DOMINION OF CANADA

FOR THE YEAR ENDED MARCH 31

1913

PRINTED BY ORDER OF PARLIAMENT



OTTAWA

PRINTED BY C. H. PARMELEE, PRINTER TO THE KING'S MOST
EXCELLENT MAJESTY

1913

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REPORT
OF THE
MINISTER OF AGRICULTURE
1912-13

To Field Marshal, His Royal Highness Prince Arthur William Patrick Albert, Duke of Connaught and of Strathcarrn, Earl of Sussex (in the Peerage of the United Kingdom), Prince of the United Kingdom of Great Britain and Ireland, Duke of Saxe-Coburg, Prince of Saxe-Coburg and Gotha; Knight of the Most Noble Order of the Garter; Knight of the Most Ancient and Most Noble Order of the Thistle; Knight of the Most Illustrious Order of Saint Patrick; One of His Majesty's Most Honourable Privy Council; Great Master of the Most Honourable Order of the Bath; Knight Grand Commander of the Most Exalted Order of the Star of India; Knight Grand Cross of the Most Distinguished Order of Saint Michael and Saint George; Knight Grand Commander of the Most Eminent Order of the Indian Empire; Knight Grand Cross of the Royal Victorian Order; Personal Aide-de-Camp to His Majesty the King; Governor General and Commander-in-Chief of the Dominion of Canada.

MAY IT PLEASE YOUR ROYAL HIGHNESS:

I have the honour to submit to Your Royal Highness a report of the Department of Agriculture for the fiscal year ended March 31, 1913:—

I.—GENERAL REMARKS.

The work of the department has been carried on efficiently, and a synopsis of the operations of the various branches comprised therein is laid before Your Royal Highness under their respective headings.

There has been no legislation affecting the department during this period.

By an Order in Council of date 19th day of April, 1912, under the provisions of Chapter 31, 9-10 Edward VII, intituled 'An Act to prevent the introduction of spreading of insects, pests and diseases destructive to vegetation,' the Regulations established thereunder were amended as follows:—

Whereas in view of the serious prevalence of the Mediterranean Fruit Fly (*Ce-ralid'is capitata*) in the Hawaiian Islands it is advisable and in the public interest that fruit and vegetables from the Hawaiian Islands be prohibited from entering Canada;

Therefore, His Royal Highness the Governor General in Council is pleased to order as follows:—

The Mediterranean Fruit Fly (*Ceratitis capitata*) is hereby scheduled and added to the list of destructive insects and pests as set forth in Section 12 of the Regulations under 'The Destructive Insect and Pest Act' as established by Order in Council, dated 27th February, 1911.

His Royal Highness the Governor General in Council, in virtue of the provisions of clause (a) of section 4, chapter 31, 9-10 Edward VII, is further pleased to order as follows:—

The following section is hereby added to the Regulations under the above named Act, established by Order in Council, dated 27th February, 1911.

Section 16. 'The importation of all non-canned fruits, plants or portions of plants, or other vegetation or vegetable matter from the Hawaiian Islands is prohibited.'

Vide Canada Gazette, Vol. XLV, pp. 3961.

By an Order in Council of date 19th day of April, 1912, under the provisions of Chapter 31, 9-10 Edward VII, intituled, 'An Act to prevent the introduction or spreading of insects, pests and diseases destructive to vegetation,' the Regulations established thereunder were further amended as follows:—

Whereas, owing to the consolidation of the Federal and Provincial work of inspecting and fumigating imports of nursery stock, &c., at Vancouver, it is necessary to make certain amendments in the Regulations under 'The Destructive Insect and Pest Act';

Therefore, His Royal Highness the Governor General in Council is pleased to hereby order as follows:

Sections 5 and 9 of the Regulations established by Order in Council, dated 27th February, 1911, are rescinded and the following substituted therefor:—

Section 5. 'All persons importing nursery stock, except such stock as is exempt from fumigation and inspection under Section 3 of these Regulations, shall give notice to the Dominion Entomologist, Central Experimental Farm, Ottawa, within five days of despatching the order for the same. This notice shall include a detailed statement of the nature, quantity and the points of origin and destination of the stock, the name of the consignor and the consignee, and the name of the transportation company or companies carrying the stock. A second notification shall be sent to the Dominion Entomologist by the importer immediately on the arrival of the stock at its final destination. Notice shall also be given by all transportation companies, Custom House brokers, and other persons importing or bringing into Canada nursery stock that is subject to inspection as hereinafter provided, immediately such a consignment is received by them.

This Regulation shall not apply to nursery stock imported into the province of British Columbia by residents in that province.

Section 9. 'Compensation not exceeding two-thirds of the value as assessed by the Inspector, of the vegetation or vegetable matter or containers thereof destroyed by the instructions of an Inspector, shall be granted by the Governor in Council upon the recommendation of the Minister, except in cases where these Regulations are carried out under the direction of the government of a province not granting compensation.'

Vide Canada Gazette, Vol. XLV, pp. 3961.

SESSIONAL PAPER No. 15

By Proclamation under date the 2nd day of May, 1912, under the provisions of **Section 3** of the Quarantine Act, Chapter 74, R.S.C., 1906, the Regulations established by Order in Council of date the 12th day of June, 1907, were amended by adding the following words, after sub-clause (c) designating the Quarantine Stations in the province of Nova Scotia:—

'(d) Digby, including the Annapolis Basin,' and by expunging the words in sub-clause (c) designating the Quarantine Stations in the province of British Columbia and substituting the following words in lieu thereof:—

'(c) Prince Rupert and Harbour.'

Vide *Canada Gazette*, Vol. XLV, pp. 4277.

By an Order in Council of date 9th day of May, 1912, under the provisions of Chapter 31, 9-10, Edward VII, intituled 'An Act to prevent the introduction or spreading of insects, pests and diseases destructive to vegetation,' the Regulations established thereunder were further amended as follows:—

His Royal Highness the Governor General in Council is pleased to order that the Regulations under 'The Destructive Insect and Pest Act' shall be and the same are hereby amended as follows:—

Section 9 of said Regulations as amended by Order in Council of 19th April, 1912, is further amended by adding thereto the following words, 'or in the case of potatoes or potato crops.'

Section 12 of said Regulations is amended by striking out the line thereof reading as follows:—

'Parasitic diseases affecting potatoes externally or internally' and substituting therefor 'Corky Scab' (*Spongospora subterranea*) (Johns.)

The following sections are hereby added to the said Regulations:

'10*a*. It shall be illegal to sell, offer for sale, dispose of in any way, receive or use, for seed purposes, any potatoes imported from Europe.'

'10*b*.— Every person using for seed other potatoes than such as shall have been raised by himself must obtain, preserve and exhibit on demand, previous to planting, a certificate from the seller or his agent stating that the potatoes to be used for seed have not been imported from Europe.'

Vide *Canada Gazette*, Vol. XLV, pp. 4167.

By an Order in Council dated the 27th July, 1912, Frederick Torrance, B.A., D.V.S., was appointed to the position of Veterinary Director General and Live Stock Commissioner in the Department of Agriculture from the 1st day of August, 1912.

By an Order in Council of date of 19th day of September, 1912, under the provisions of Chapter 31, 9-10 Edward VII, intituled 'An Act to prevent the introduction or spreading of insects, pests and diseases destructive to vegetation,' the Regulations established thereunder were further amended as follows:—

Whereas it is deemed advisable and in the public interest that the importation of potatoes from Europe should be prohibited:—

Therefore the Governor General is pleased to order and it is hereby ordered as follows:—

4 GEORGE V., A. 1914

Section 13 of the Regulations established by Order in Council of 27th February, 1911, in accordance with the provisions of Chapter 31, 9-10 Edward VII, intituled 'An Act to prevent the introduction or spreading of insects, pests and diseases destructive to vegetation,' is hereby amended by inserting after the word "from" in the first line thereof the word "Europe," so as to read:—

'13. The importation of potatoes into Canada from Europe, Newfoundland or the islands of St. Pierre or Miquelon is prohibited.'

Sections 10a and 10b of the Regulations established under Order in Council of 9th May, 1912, are hereby repealed.

Vide *Canada Gazette*, Vol. XLVI, pp. 977.

By an Order in Council under date 16th day of November, 1912, under the provisions of Chapter 31, 9-10 Edward VII, intituled 'An Act to prevent the introduction or spreading of insects, pests and diseases destructive to vegetation,' the regulations established thereunder were further amended as follows:—

His Royal Highness the Governor General in Council is pleased to order as follows:—

Section 12 of the Regulations established under 'The Destructive Insect and Pest Act' is hereby amended by striking out the following words:—

'Corky Scab' (*Spongospora subterranea*) (Johns), 2.

Vide *Canada Gazette*, Vol. XLVI, pp 1742.

By an Order in Council approved by his Royal Highness on the 21st November, 1912, the resignation of Frederick Torrance, B.A., D.V.S., as Live Stock Commissioner in the Department of Agriculture was accepted to take effect from the 30th November, 1912.

By an Order in Council approved by His Royal Highness, under date 21st November, 1912, Mr. John Bright, of Myrtle, Ont., was appointed to the position of Live Stock Commissioner in the Department of Agriculture, from the 1st of December, 1912.

By an Order in Council under date 10th day of December, 1912, under the provisions of Chapter 75, R.S.C., 1906, intituled 'An Act respecting Infectious or Contagious Diseases affecting Animals,' the Regulations established thereunder were further amended as follows:—

Whereas the government of the province of British Columbia is carrying on an active campaign against Bovine Tuberculosis:

And whereas the government of the said province has requested the federal government to take action to prevent the entrance into that province from other parts of the Dominion, of cattle unless they have passed the tuberculin test:

And whereas it does not appear desirable to comply with the request in full, but the Minister of Agriculture is of the opinion that it would be desirable to restrict all pure bred cattle from entering that province if not accompanied by a satisfactory tuberculin test certificate:

SESSIONAL PAPER No. 15

Therefore His Royal Highness the Governor General in Council is pleased, in virtue of the provisions of Section 28 of The Animal Contagious Diseases Act, and with a view to assisting the province of British Columbia in its endeavours to stamp out Bovine Tuberculosis in that province, to Order that the Quarantine Regulations approved by Order in Council of the 30th November, 1909, and amended by Order in Council of the 19th August, 1911, shall be and the same are hereby further amended by inserting the following section after section 82 of the above mentioned Regulations:—

'82j. No common carrier shall receive for shipment or carry into the province of British Columbia, any registered pure bred cattle, unless the same are accompanied by a certificate signed by an inspector setting forth that within thirty days prior to the date of shipment they have been submitted to and have passed the tuberculin test.'

By an Order in Council under date of 10th December, 1912, under the provisions of Chapter 31, 9-10, Edward VII, intituled 'An Act to prevent the introduction or spreading of insects, pests and diseases destructive to vegetation,' the regulations established thereunder were further amended as follows:—

Whereas it is deemed advisable and in the public interest that immediate steps should be taken to protect Canada from the spread of Gipsy Moth at present prevalent in certain parts of the United States, —

Therefore the Governor General in Council, in pursuance of the provisions of Chapter 31, 9-10 Edward VII, intituled 'An Act to prevent the introduction or spreading of insects, pests and diseases destructive to vegetation,' is pleased to order and it is hereby ordered as follows:—

The following Regulation is hereby added to the Regulations under the Destructive Insect and Pest Act established by Order in Council of 27th February, 1911:—

'No. 17. Forest plant products including logs, tan bark, posts, poles, railroad ties, cordwood and lumber originating in any one of the States of Maine, New Hampshire, Vermont, Massachusetts, Connecticut and Rhode Island, six of the United States of America, shall not be admitted into Canada unless such forest plant products shall be accompanied by a certificate showing that they have been inspected by the United States Department of Agriculture and found free from the Gipsy Moth. Each Shipment shall be accompanied by such an inspection certificate and the certificate shall accompany the bill of lading, way bills or other memoranda pertaining to such shipments.

The importation of coniferous trees such as spruce, fir, hemlock, pine, juniper (cedar) and 'arbor vita' (white cedar) or foliage thereof, and decorative plants such as holly and laurel known and described as 'Christmas greens or greenery', from the States of Vermont, Maine, Massachusetts, New Hampshire, Connecticut and Rhode Island is prohibited.'

Vide *Canada Gazette*, Vol. XLVI, pp. 2080.

By an Order in Council under date 4th day of January, 1913, under provision of Chapter 75 R.S.C., 1906, intituled 'An Act respecting Infectious or Contagious Diseases affecting Animals,' the Regulations established thereunder were further amended as follows:—

Whereas it is deemed advisable and in the public interest that the importation, manufacture, or sale of Hog Cholera serum and virus be prohibited in the Dominion of Canada,—

Therefore His Royal Highness the Governor General in Council, in virtue of the provisions of clause (I) of section 28 of chapter 75 Revised Statutes of Canada, 1906, is pleased to order as follows:—

The Quarantine Regulations established by Order in Council of the 30th November, 1909, as amended by Order in Council of the 19th August, 1911, are hereby further amended by adding the following section thereto:—

88½. The use of Hog Cholera serum or virus, being considered a source of danger, the importation, manufacture, sale or use of such serum or virus, is prohibited.

Vide *Canada Gazette*, Vol. XLVI, pp. 2466.

By an Order in Council under date of 25th day of February, 1913, under the provisions of Chapter 31, 9-10 Edward VII, intituled, 'An Act to prevent the introduction or spreading of insects, pests and diseases destructive to vegetation,' the Regulations established thereunder were further amended as follows:—

Whereas, in order to protect Canada from the spread of the Gypsy Moth prevalent in certain parts of the United States of America, the Regulations under the Destructive Insect and Pest Act, established by Order in Council, dated 27th February, 1911, were amended, by Order in Council, dated 10th December, 1912, by adding thereto a regulation numbered '17.'

And whereas the Dominion Entomologist has reported that he is of the opinion that until the Gypsy Moth actually reaches and is found to occur in the State of Vermont, it is unnecessary that that State should be scheduled.—

Therefore the Governor General is pleased to order as follows:—

Regulation No. 17 under the Destructive Insect and Pest Act, established by Order in Council, dated 10th December, 1912, is hereby amended by expunging the word 'Vermont' therefrom.

Vide *Canada Gazette*, Vol. XLVI, pp. 3147.

As intimated in my Report of last year the Festival of Empire and Imperial Exhibition held at the Crystal Palace, London, England, closed on the 31st of October, 1911. However, before dismantling the Canadian Building, Canada was asked whether the Government would like for the year 1912 to maintain their building in the Crystal Palace grounds. This was thought advisable, and the Canadian Exhibit was continued until the end of October, 1912, when the staff was required in connection with the preparation of Canada's Exhibit at the International Exhibition to be held in Ghent, Belgium, in 1913.

It having been decided that Canada would accept the invitation of the Belgian Government to be represented at the International Exhibition to be held in Ghent, Belgium, in 1913, Mr. William Hutchison, the Permanent Canadian Exhibition Commissioner has been busily engaged with his staff in making the necessary preparations for Canada's participation at the above named Exhibition, which is to open on the 26th April, 1913.

SESSIONAL PAPER No. 15

A Report from the Canadian Exhibition Commissioner for the fiscal year ending 31st March, 1913, will be found as an appendix hereto. (See Appendix No. 18.)

The Seventh International Congress against Tuberculosis was held in Rome, Italy, commencing on the 14th April last. Canada was represented thereat by Dr. Severin Lachapelle, of Montreal, P.Q.; Doctor D. A. Stewart, of Ninette, Manitoba; Doctor A. Rousseau, of Quebec, P.Q.; Doctor Arthur J. Richer, of St. Azathe, P.Q.; and Professor J. J. MacKenzie, of Toronto University, Toronto, Ont.

A report thereon has been received and is appended hereto. (See Appendix No. 19.)

II. ARTS AND AGRICULTURE.

DAIRY AND COLD STORAGE BRANCH.

The Divisions of Dairying, Fruit, Extension of Markets and Cold Storage are grouped together and form the Dairy and Cold Storage Branch, of which the Dairy and Cold Storage Commissioner is the Chief Officer.

Appreciating the importance of the different lines of agricultural production, which the work of the Dairy and Cold Storage Branch touches, I have deemed it advisable to arrange for a substantial increase in the appropriations for this branch. An increase was made in 1912-13, and a further increase is asked for in the estimates for 1913-14.

With more funds available the work of the Branch has naturally expanded, and will continue to do so. New lines of work have been taken up, and a large number of new employees have been added to the outside staff during the past year.

THE DAIRYING SEASON OF 1912.

The prevailing weather during the summer of 1912, with a rainfall above normal and with many cloudy days, was in marked contrast to that of 1911. Weather conditions affect the production of milk, and on the whole the season of 1912 was very favourable.

The ruling prices for both butter and cheese were higher than during the previous year. This is especially true with regard to butter.

THE EXPORT TRADE.

There was a decrease in both quantities and values of dairy produce exported during the year. Full particulars will be found in the Report of the Dairy and Cold Storage Commissioner.

The most notable feature of the export trade for the year is found in the fact that for the first time in over 60 years Canada has shipped no butter to the United Kingdom. The total exports amounted to approximately half a million pounds, which consisted chiefly of tinned butter to the West Indies and dairy butter to the United States.

There has been a much smaller export of cream to the United States than during the previous year, on account of the high price of butter in Canada.

IMPORTS OF BUTTER.

Comparatively small quantities of butter have been imported into Canada during periods of temporary scarcity for many years. During recent years supplies of New Zealand butter have been imported at Vancouver, direct from New Zealand, in increasing quantities. Small quantities have also reached Canada via London and Montreal.

The past year has, however, seen an enormous increase in these shipments, and during the twelve months ended November 30th last, the imports reached a total of 6,694,722 pounds, mostly from New Zealand.

THE HOME TRADE.

The decline in our export trade and the increase in the imports of butter does not indicate any decline in the dairying industry. The fact is evident when the various sources of information are considered that the production of milk in Canada is larger at the present time than it ever was in the history of the country; and that there has been a constant increase in production since the exports began to decline, the difference being accounted for by the increased home consumption. There is a large per capita increase in the consumption of milk, cream and ice cream in addition to the increase due to greater population.

THE NEW DAIRY STATIONS.

The new dairy stations which were mentioned in my last report were completed during the past summer and are now in full operation. The station at Finch consists of a combined creamery and cheese factory with facilities for carrying on experimental work. It will be operated as a cheese factory during the summer months and as a creamery for the balance of the year. Competent investigators are to be employed who will carry on experiments relating to the manufacture of butter and cheese and the handling of milk and cream.

The Brome Dairy Station will be operated as a creamery the year around with two tributary skimming stations. Both the Finch and Brome stations have been fitted with up-to-date apparatus and machinery to provide the necessary facilities for conducting experiments as well as for the manufacture of butter and cheese in the most approved manner.

It is expected that the revenue to be derived from the manufacture of butter and cheese at these stations will pay all the expenses of operation except that which is incurred on experimental account.

The erection of these two stations must not be taken to mean the inauguration of a policy to operate cheese factories and creameries generally. The plans and specifications of both establishments are available to those who apply for them, and the results of the experiments conducted will be published for general distribution. Cheese factory and creamery owners and the patrons thereof in all parts of the country will receive as much benefit as those in the immediate vicinity.

COW TESTING.

This work which has for its object the improvement of the dairy herds of Canada has been continued and extended during the past year. Eight new Dairy Record Centres were established, making 11 in operation. This number will be added to during the coming year. The Department through the Dairy and Cold Storage Commissioner continues to furnish to all farmers who apply for them, free of charge, the blank forms which are used in keeping records of individual cows. I am informed that the demand for these record forms has increased enormously during the past year. This is a very important result of the propaganda which has been carried on for some years past. Hundreds of farmers throughout the country are making tests of their cows on their own account.

EXTENSION OF MARKETS DIVISION

ICED CAR SERVICES

The special refrigerator car services for the carriage of butter in small quantities and for the carriage of cheese and fruit in carloads was arranged for with the railway companies as in former years. This relates more particularly to the produce intended for export. The inspection of refrigerator car services which is assigned to the Extension of Markets Division was carried out as usual.

CARGO INSPECTION.

The cargo inspection service which has been fully explained in previous reports was extended during the past season by sending an inspector to Portland, Maine, after the close of navigation at the port of Montreal; two inspectors were employed at Halifax, one at Quebec and five at Montreal during the season of navigation.

THERMOGRAPH RECORDS.

The thermograph records from the chambers and holds of steamers carrying produce which are obtained through the agency of the cargo inspectors at Canadian and British ports continue to be a useful record in the transportation of perishable products. Copies of these temperature records are given to the agents of the shipping companies, a copy of each record is posted in the Exchange Room at the Board of Trade, Montreal, another copy is given to the engineer on the ship and copies are sent to any shipper who is interested in the cargo which the record relates to.

This Division also makes a study of prices for farm products and keeps a record of the principal Canadian and United States markets for easy reference.

THE FRUIT DIVISION.

The season of 1912 was notable for the extremely heavy crop of apples in British Columbia and the Pacific Coast States, which resulted in a keen competition in the markets of the prairie provinces, and emphasized the necessity for a thorough organization on the part of Canadian growers for the purpose of controlling the selling end of their business.

FRUIT INSPECTION

The administration of Part IX. of the Inspection and Sale Act, commonly known as the Fruit Marks Act, is assigned to and is an important part of the work of the Fruit Division.

The fruit inspection service was thoroughly reorganized and considerably extended during the past season. Five inspectorates were established as follows:—

- District No. 1—Maritime Provinces.
- “ “ 2—Province of Quebec and Eastern Ontario.
- “ “ 3—Western Ontario.
- “ “ 4—Prairie Provinces.
- “ “ 5—Province of British Columbia.

The office of Chief Inspector was created and a Chief Inspector was assigned to each of the districts named.

For the season of 1912, 48 inspectors were employed, including 5 chief inspectors. The largest number employed in any previous year was 30.

While there has been improvement in the packing of fruit, especially with regard to apples, the inspectors have found it necessary to lay complaints in a number of cases, and 90 persons have been convicted during the year for violations of the Inspection and Sale Act. Of this number 10 cases related to imported fruit which was not marked according to the requirements of the Act.

THE FRUIT CROP REPORT.

A monthly Fruit Crop Report was published, as in former years, from May to September, making five issues for the season.

FRUIT PACKING.

The services of permanent fruit inspectors have for some years been utilized during the slack periods, as far as their skill and experience would permit, to give instruction in the packing of apples. To meet the increasing demand for instruction in the packing of apples in boxes, I have authorized the appointment of an expert who will give his whole time to that work.

APPLES FOR INTERNATIONAL EXHIBITIONS.

The Dairy and Cold Storage Commissioner has for some years been intrusted with the matter of securing apples for display at the various International Exhibitions in which Canada has been taking part. Over 1,500 boxes of apples, collected from all the fruit growing provinces, were recently shipped to the Exhibition Commissioner at London for use at Ghent, Belgium, during the coming summer.

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COLD STORAGE.

CREAMERY COLD STORAGE BONUSES.

The policy of paying a bonus of \$100 to creameries for the erection of approved refrigerators has been continued.

COLD STORAGE SUBSIDIES.

Six contracts were entered into during the year for the payment of subsidies on public cold storage warehouses erected according to the terms of the Cold Storage Act. Other applications are now under consideration.

PUBLICATIONS.

An Annual Report giving the details of the work of the Branch is being prepared by the Dairy and Cold Storage Commissioner, and it will be published as an appendix to this volume. A number of bulletins dealing with particular subjects relating to dairying, fruit growing, and cold storage have been published during the year. Blue print plans for cheese factories, creameries, small cold storages and farm dairies are sent free of charge to any person who applies for them.

MEETINGS.

A large number of meetings have been attended by the officers and experts attached to the Dairy and Cold Storage Branch.

SEED COMMISSIONER'S BRANCH.

The service of the Seed Branch has continued to expand in each of three main divisions: (a) Seed Growing, (b) Seed Testing, (c) Seed Inspection. The work of encouraging the production of selected seeds by farmers was started in a small way in 1900; a seed laboratory for the testing of seeds was established in 1902; and the Seed Control Act requiring the inspection of seeds when exposed for sale in commerce became law in 1905. There are now sixty-two officers, clerks and temporary seed inspectors engaged in this service for agriculture.

Seed Growing.—New and improved varieties and strains of seeds are commonly made available to farmers and gardeners by plant breeding experts employed at both federal and provincial experiment stations. There are a few seed growers in each province who follow an approved system of selection to maintain the purity of such seed while increasing the quantity from year to year. Their crops and seeds are regularly inspected and if of superior quality are recommended by my district seed inspectors for registration in the records of the Canadian Seed Grower's Association. The selected seeds produced by growers who make a speciality of that work are much in demand by farmers who compete for prizes in field crop competitions with seed grain and other field and garden crops. The plan for co-operating with the provinces

that I authorized last year with a view to extend the benefits that accrue from these field competitions has been productive of gratifying results. These seed growing competitions among farmers have materially increased in all of the provinces, and in addition to creating large supplies of excellent seed grain and other seeds in almost every farming district and even locality, the special care as to cultural methods in producing prize winning crops serves as an excellent object lesson and tends to stimulate much interest among farmers in general in the agricultural practices of their more successful neighbours.

Seed fairs and provincial seed exhibitions are both educational and commercial in scope and character. The seed fairs are quite local and held at an opportune time of year for the sale and exchange of seeds among farmers. The best exhibits shown at seed fairs, the seed from prize winning fields in the field crop competitions and registered seeds of selected stocks are brought together for exhibition and sale at the larger provincial seed exhibitions. To meet the cost of maintaining them subventions are provided to all the provinces to the extent of two-thirds of the prizes awarded. It is a pleasure to report that the usefulness of these organizations has been materially extended during the past year.

Field root and garden vegetable crop seeds have not heretofore been commonly grown in Canada in quantity for commerce. Some experimental work that has been done would seem to indicate that better results are to be obtained from these crops when selected acclimated seeds are used. The high cost for farm labour in Canada compared with the abundance and cheapness of labour skilled in seed growing in those countries from which these seeds are imported has tended to discourage the home production of selected seeds for these crops.

With a view very gradually to create a supply of acclimated seeds of field root and vegetable crops, I authorized the payment of subventions to *bona fide* growers of properly selected seeds of certain staple kinds, subject to definite regulations and efficient inspection on the part of my district officers. The main purpose of extending this form of encouragement to competent seed growers is educational. The subvention offered amounts to approximately one-eighth of the average retail price for the kind and, it is estimated, will be about sufficient to neutralize the advantage of cheap labour that is available to the seed growers of Europe.

During the growing season my district officers were able to devote several weeks to inspecting seed crops in the principal grass and clover seed producing districts. Encouragement has also been given to the growing of clover seeds in many districts where these seeds have commonly been imported though seldom if ever saved from the crop. Much good work has been done by visiting the growers of these seeds on their farms and giving them expert advice as to the best methods of weed eradication and the production of seed of the highest grade for commerce.

An exhaustive treatise on fodder and pasture plants and the production of seed from them, with coloured illustrations of all the principal kinds of grasses and clovers, has been prepared and as soon as printed will be distributed free to public institutions including the libraries of farmers organizations, and made available to individuals at a very nominal price.

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Seed Testing.—The testing and grading of seeds under the Seed Control Act has continued to increase. Grass and clover seeds for purity test and official grading made up sixty-eight per cent of the total work at the Ottawa, and only about nine per cent at the Calgary seed laboratory. Seventy per cent of the samples received at the Calgary laboratory were of cereal grains for germination test. In all, 11,215 samples were received, tested, and reported upon from the Ottawa laboratory during the past year which shows an increase of thirteen per cent over the previous year. A total of 7,832 samples were tested and reported upon from the Calgary laboratory. Because of more favourable climatic conditions for maturing the cereal crop of 1912, there was very little damage to the oats and other grains from frost and, in consequence, the necessity on the part of farmers of having their seed grain tested as to vitality was less pronounced than in some former years. The need for careful attention on the part of my officers to prevent the unwitting use for seed of oats that may have suffered from low temperatures before being fully matured and dried is indicated in the conditions of the past year which was considered reasonably favourable in respect to climate, but when out of 3,678 samples of seed oats tested 817 samples germinated less than 63 per cent.

The change in the Seed Control Act which requires seed merchants to grade their timothy and clover seeds according to definite standards of quality before exposing them for sale, has entailed a large increase in the service of testing and grading samples for seed merchants. Formerly about one-half of the work done in the Ottawa seed laboratory was for farmers; during the past year 8,298 samples were tested for seed merchants, and 3,997 for farmers at Ottawa; and 2,092 for seed merchants, and 5,645 for farmers at the Calgary laboratory.

The testing for purity and grading of grass and clover seeds for commerce must be done with reasonable promptness. A certificate of grading has been issued on all samples sent in for that purpose during the past season, within twelve working hours of the time when the samples were received at the laboratories. To ensure prompt service with this work it is necessary to maintain a well trained staff of seed analysts sufficiently large to meet the demands for that service at the busiest season of the seed trade.

The following table shows the percentage of the total number of samples for the year that was received for test during each month for the past three years:—

Months.	1910-11.	1911-12.	1912-13.
April	15.44	16.26	15.85
May	3.91	3.46	7.19
June	0.83	0.64	0.65
July	0.78	0.22	0.66
August	2.36	1.82	1.33
September	2.93	2.29	2.43
October	8.72	6.19	4.49
November	5.09	4.01	6.73
December	8.14	14.63	6.33
January	13.14	14.46	13.24
February	14.31	20.01	15.35
March	24.77	25.16	25.84

During the winter and early spring months practically all of the permanent laboratory staff are employed in technical work and the staff is increased by the addition of temporary clerks for clerical and other work. In the summer months the permanent staff are fully employed in investigating conditions of the commerce of seeds by testing samples collected for that purpose by seed inspectors, and in other divisions of the work of this Branch.

It is believed that as a result of an efficient service for seed testing having been made available to farmers and seedsmen much greater care is taken by them in the matter of the purity as to weed seeds and the vitality of seeds. It is not possible completely to prevent the introduction and dissemination of weed seeds in commercial seeds but there is good reason to believe that the educative effects of seed testing and other work supplemented by legislation has tended towards the elimination of useless waste and the production of better crops through discouraging the production and sale of impure seeds and encouraging the selection and commerce of the best.

The trial plot tests with field root seeds were continued during the past year. The purpose of this branch of seed testing work is to investigate the extent to which mixed and inferior stocks of these seeds are imported and distributed in the retail trade. To do this work specially skilled experts are required and a sufficient area of land for growing the seeds to be tested to the full maturity of the plants. During the past year I was able to arrange for a few acres of land to be donated to that purpose at the Experimental Farm.

Seed Inspection.—The work of seed inspection is instituted to secure the observance of the Seed Control Act. For the convenient and more efficient administration of this service the whole territory to be covered is divided into seven principal districts and each district is placed under the direct charge of a competent and experienced seed inspector. During the busy season of the seed trade temporary inspectors are employed to assist with the work in each district. It is their duty to inspect the seed and, if it is found to be contaminated with noxious weed seeds, wrongly graded, nonvital or otherwise exposed for sale contrary to the provisions of the Act, an official sample is drawn in the presence of the seller and sent to the laboratory for comparison with the original sample that was graded, or for vitality or purity test.

It is gratifying to be able to report that everywhere in Canada the administration of this law and the regulations thereunder has met with the wholesome support of both farmers and seed merchants. I regret that there were a few merchants who were recommended for prosecution and who received the condemnation of the court because of repeated careless practices on their part.

I have been pleased again this past year to co-operate with my colleague the Honourable the Minister of Interior by having my staff of seed inspectors assist in the work of procuring a supply of clean seed grain required for distribution to needy homesteaders in the prairie provinces; also to assist in procuring a supply of good seed oats that were purchased by the farmers of North Eastern Quebec.

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LIVE STOCK BRANCH.

An important change has been made in the administration of this Branch during the past year. Following the resignation of Dr. J. G. Rutherford, as Live Stock Commissioner, in March 1912, it became impressed upon me that the separation of the Health of Animals and Live Stock Branches would be in the best interests of the Public Service. This proposed change was definitely provided for in November, 1912, and became operative in the following December, with the appointment of Mr. John Bright of Myrtle, Ontario, as Live Stock Commissioner. Should any justification for this step be sought for, it ought not to be difficult to find it in the constantly growing demand upon our live stock resources by the expansive development of commercial and industrial activities in the country and in the fact that live stock production is passing through a somewhat critical stage in its history and is now admittedly unable to keep pace with the increasing consumptive demand of the home markets for meat and meat products. I do not hesitate to say that very great opportunities are offered at the present time for the initiation of a constructive campaign in the interests of our live stock industry and no apology is offered that improved facilities are being provided for its effective administration.

During the year, something really tangible has been done to encourage the sheep industry. A very liberal grant was made through the Live Stock Branch to the Dominion Sheep Breeders' Association and this was spent in purchasing and in distributing, through the medium of auction sales, a large number of pure bred rams and grade ewes in British Columbia and in the maritime provinces.

The work, on behalf of the Dominion Sheep Breeders' Association, was carried on through a committee of three of its members, one of whom purchased the sheep, while the two others prosecuted a campaign of investigation and education, one of them working in British Columbia and the other in the maritime provinces. Each of the latter delegates was accompanied by an officer of the Live Stock Branch, while a local member was added to the committee in the maritime provinces.

The British Columbia committee reported that a keen interest was evidenced not only by the new settlers who were anxious to secure a few individuals to start a flock, but, as well, by the larger farmers and land owners. The quality of mutton and lamb supplied at the present time by the home breeders represents but a very small part of the total amount consumed in the province. Australasia supplies annually more than 100,000 frozen carcasses, while thousands of live sheep and lambs are brought in from United States. The keen local demand, coupled with the fact that sheep have proven a profitable investment under the varying conditions which are found on the islands, on the lower main and in the upper country, has turned the attention of many people to the prospective advantages likely to be realized through maintaining sheep on their farms. A little direction and assistance at this time should result in making sheep raising one of British Columbia's most profitable industries.

The Maritime Committee made a thorough investigation as regards the methods followed by the sheep men and the farmers in the eastern provinces. Through per-

sonal contact with the breeders upon their own farms, the committee were enabled to get an insight into conditions and also to offer much practicable advice in encouraging the adoption of improved methods in the care and management of sheep. In the majority of sections, the need of better sires with which to grade up the flocks was very apparent. Evidence of the lack of proper feed, of faulty care and of bad management was repeatedly observed. Co-operation, except in one or two districts in Prince Edward Island, had not been practised. The steady decline of the industry during several decades may be attributed to the fact that a practical knowledge of sheep raising is possessed by only a few farmers and breeders in these provinces.

Notwithstanding this, few countries are favoured with greater natural advantages in their adaptability to sheep raising, particularly when there are considered the factors of cheap land, of a suitable climate, a steadily growing home market and of water transportation to the important markets of United States and Great Britain. Maritime lamb has already achieved a reputation on the American market and there commands a premium because of its quality. The shortage of the local meat supply and the consequent rise in price is doing much, however, to revive an interest in sheep keeping and to create a desire to follow improved methods in breeding and marketing.

In British Columbia there were distributed 130 pure bred rams and upwards of 1,000 grade ewes. In the maritime provinces the total number offered at the sales consisted of 400 pure bred rams and about half that number of ewes. It is believed that, as a result of the introduction of this new blood, there will be a consistent improvement in the quality of the stock raised, and, at the same time, it is expected that considerably more sheep will be reared than has been the case during the past years.

To provide for the prosecution of an aggressive and systematic campaign in the interests of the sheep industry, I authorized, in the early part of the year, the appointment of a Sheep Specialist, whose duty it would be to give direct assistance to sheep raisers and to devise means for ameliorating the conditions under which sheep are raised and their products marketed. During the summer, this officer confined his field of endeavour to the western provinces. There in the past, the preparation and marketing of wool has been pursued in a rather haphazard fashion, as a result of which the grower has not received a price that the inherent quality of his product would warrant. The Sheep Specialist has been able to assist in the organization of two flourishing wool growers' associations, the success of which is directly proving the advantages that invariably result from concerted action.

The gathering of specific information relative to the marketing facilities for this commodity has received attention. Not only have conditions in the home market been carefully studied, but, as well, those in Great Britain. Information from the latter source is exceptionally valuable, particularly as Great Britain represents the central market for the world's wool, and on this market virtually all prices are controlled and fixed. An effort is being made to bring about such a standardization of Canadian wool and to improve the methods followed in its preparation that it may

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compete successfully in the world's markets with the wool produced in countries where a more perfect organization prevails. It has become clear that, in order to promote an extension of sheep raising in Canada, the whole problem relating to the production and marketing of wool must receive primary attention.

During the past year lecturers have been supplied, upon request, to various provincial departments, winter fairs, boards and local organizations. This form of assistance has been taken advantage of very freely, and from reports received, the services of the speakers supplied have proved most acceptable. In addition, the usual series of agricultural meetings were arranged for during February and March in the French speaking districts of the province of Quebec. Forty-eight places in all were included in these series, and, as a result of special efforts made to insure proper advertising of the meetings, the average attendance was much larger than heretofore. The interest manifested in the subjects discussed by the speakers on the various delegations was highly encouraging and the opportunity thus afforded of interchanging ideas with men of more than local agricultural experience was evidently much appreciated.

The policy of supplying judges of live stock and of poultry for exhibitions, winter fairs and local fall fairs to associations applying for same has been continued by the Department. The advantages resulting from the employment for work of this kind, of specially qualified men who have no special interest in the awards, have become widely recognized by exhibitors and the many requests received for assistance of this nature have amply justified its continuance.

The Canadian Record of Performance work, now firmly established in the confidence of the farming public, has continued to expand. With the exception of the province of Manitoba, from which up to the present time no entries have been received, each province in the Dominion is well represented in the tests. While the number of entries from Ontario and Quebec still greatly exceed those from other provinces, there has been a very noticeable growth in the work, both in the east and the west. A year ago the appointment of an inspector for the maritime provinces was noted. During the past year the rapid development of the work in the province of British Columbia has necessitated the appointment of a special inspector for that province. In Ontario and Quebec, eight inspectors are now devoting all of their time to supervising tests, two additional men having been appointed in order to keep pace with the work. In all, upwards of one hundred and fifty herds are now represented in the tests with a total of nearly one thousand cows entered. While the work is of very great and direct benefit to the pure bred stockmen, it has a wider influence in furnishing to the owners of grade herds reliable and valuable information to govern the selection of bulls to place at the head of their herds. The justification of the undertaking of the work in the first place lay in a large measure in this fact and already there has been ample demonstration of appreciation on the part of dairy men in general of the advantage thus afforded. The ultimate improvement in the dairy stock of the country, which will be attained as a result of this form of assistance, cannot, therefore, even be estimated.

The officers engaged in furthering the poultry work of the Branch have been largely concerned with problems of marketing poultry produce, particularly that phase relating to the unsatisfactory conditions apparent in the Canadian egg trade. It has been evident for some time that the enormous losses occurring in this trade and the general unsatisfactory condition of eggs as they reach the consumer are due, to a certain extent, to carelessness and neglect on the part of the farmer and to the practice by many merchants and local egg buyers of holding eggs at certain seasons of the year without having proper facilities for storing them.

Two plans of work have been followed. Based on the conditions already mentioned, the first includes the assistance extended in the organization of Co-operative Egg Circles and of other means tending to facilitate the marketing of eggs more frequently and regularly. A number of these circles in Ontario, Quebec and the maritime provinces are now actively engaged in shipping their eggs co-operatively. Mr. T. A. Benson, who was appointed to have charge of the poultry work of the Live Stock Branch in Prince Edward Island, has been largely responsible for the furthering of this plan in that province. Owing to the frequent number of requests received, other officers of the Branch are now actively engaged in this work in other provinces.

The second phase of the poultry policy has entailed a thorough investigation of the wholesale egg trade. Already considerable information has been acquired, and it is expected that, when the material is all in hand, there will be available sufficient information on which to base a comprehensive policy of education and legislation. Mr. J. H. Hare, B.S.A., formerly representative of the Provincial Department of Agriculture in Ontario county, has recently been appointed to take charge of this work.

A number of leaflets and bulletins dealing with the various phases of the work have been from time to time prepared. Of these, special mention may be made of Bulletin No. 16, the demand for which has been so great that within five months from date of publication, the first edition of 30,000 copies was exhausted. A second edition is now being printed.

Several provincial and federal organizations have been granted direct financial assistance to enable them more successfully to carry on their work. The office of the National Live Stock Records has received the largest individual grant, it being conceded that the work entailed in the registration of our pure bred live stock under the system in vogue in Canada deserves generous recognition and support. Of the other bodies receiving aid of this nature, there may be mentioned The Poultry Producers' Association of Canada, several Provincial Cattle Sales, The Maritime Winter Fair and the Winter Fairs of Manitoba, Saskatchewan and Alberta.

DOMINION EXPERIMENTAL FARMS AND STATIONS.

To the fourteen branch farms and stations reported on last year has been added an experimental station for the province of New Brunswick, located at Fredericton.

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Much has been accomplished during the year in the better fitting of those branch farms already established, for the various lines of work to be taken up. Further areas have been added to some of them, allowing scope for a wider range of experiment and a number of new buildings have been erected.

These features are reported on in more detail in the notes on the different farms and stations given below.

The increasing volume of work and the elaboration of the experiments being carried on, made necessary a re-arrangement of the Divisions at the Central Farm. The former Agriculturist's Division has been made into two, the Division of Animal Husbandry and that of Field Husbandry. A Division of Forage Plants has also been established, having to do with the study of varieties of corn, roots, clovers and grasses.

Since April 1, 1912, the following publications have been issued:

Of the Second Series of Bulletins, No. 10, the Large Larch Saw-fly; No. 11, Legislation in Canada to prevent the Introduction and Spread of Insects, Pests and Diseases injurious to Vegetation; No. 12, Feeding for Beef in Alberta; No. 13, Experiments in Steer Feeding in Manitoba and No. 14 on Corn-growing in Manitoba.

Of pamphlets, there were issued No. 9, on Hardy Rose Culture in Canada; No. 10, on Tomato Culture and No. 11, on Cabbage and Cauliflower Culture.

The circulars brought out were No. 1, on Potato Canker; No. 2, The Orange Hawk-weed; No. 3, Potato Canker and also Entomological Circulars No. 1, on Tent Caterpillars and No. 2 on Flea Beetles and their Control.

In addition to the above, a Guide to the Experimental Farms and Stations was prepared. This publication gives a short account of the work being done in each division at the Central Farm as well as outlines the work under way at each branch farm and station. It is generously illustrated with maps and plates.

FIELD HUSBANDRY DIVISION.

Field crop experimentation, which in the past has formed a part of the work of a larger division having to do with both the culture of field crops and the raising of live stock, now constitutes a division in itself.

The scope of its work includes soil cultivation and drainage, methods and costs of growing, harvesting, and storing farm crops for grain and fodder, the conduct and comparative values of different rotations for live stock purposes.

In soil cultivation it is aimed to learn the minimum cost and the most effective methods of increasing crop yields and preserving soil fertility.

In the growing of crops, studies are made of the comparative values of different kinds as forage for live stock.

During the past year the rotation tests have been reorganized and extended so that there are now laid down fifteen permanent rotations. In the investigation of these the following points of merit are being considered:—

1. Their ability to supply different crops in the proportions for certain needs.
2. Their power to keep weeds in check.
3. Their effect on the fertility of the soil, as may be evidenced by an increase in crop production from one series of years to another.
4. Their comparative profits.

ANIMAL HUSBANDRY DIVISION.

This is a new division of the Experimental Farm system, made separate from that of Field Husbandry during the past year.

The work of this division is to directly lay out and superintend the feeding, management and housing of animals; the manufacturing and marketing of products from same and all routine and experimental work connected therewith on the Central Experimental Farm.

By visiting the branch farms, the Animal Husbandman has been brought into close touch with their work. Such should tend to assist the superintendents under the supervision of the Director, to lay out new live stock experimental work and in better systematizing that work which has been in progress.

LIVE STOCK ON CENTRAL FARM.

Horses in the past have been used for working purposes only, but during the past year breeding work was commenced. A few mares are now in foal; the number will be increased as accommodation permits.

Beef cattle work for the past year was limited to experimental steer feeding, no breeding stock being kept.

Dairy cattle are receiving increased attention. Representatives of five breeds, namely: Holstein, Ayrshire, Guernsey, Jersey and French Canadian are kept, all of which have shown remarkably good returns. Many pure bred animals from these herds are annually sold for moderate prices. The increasing demand for such stock indicates the desire of farmers to improve their breeding herds.

Sheep are kept in small numbers. Shropshires and Leicesters, representing respectively the medium and long wool types of sheep, make up the flock.

Swine raising has again demonstrated itself as one of the best paying branches of the live stock work. Yorkshires, Tamworths and Berkshires are kept, with which valuable and interesting breeding and feeding experiments are conducted. Large numbers of young pure bred animals for breeding purposes are annually sold at a moderate price. The increasing demand for such is an encouraging evidence of the awakening of the live stock industry.

Much experimental work has been conducted as to the most advantageous methods of producing and marketing farm produce, particularly that from the dairy herds.

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Such work has included the manufacturing of butter, Cheddar cheese, cream cheese, Coulommier cheese, pure milk and certified milk; also testing of efficiency and economy of milking machines and many co-relative problems. Much information of economic value is thus being secured.

BUILDING FOR ANIMAL HUSBANDRY DIVISION.

An excellent barn wherein to conduct dairy feeding and live stock digestion experiments has been erected during the past year. The new building in most respects also stands as a model dairy barn in which are incorporated the features essential for the production of healthy stock and pure milk, namely: light, ventilation, durability, economy and efficiency.

With but two exceptions, namely: the dairy building and sheep barn, there is now the best collection of farm buildings in Canada, which are, in essentials, being copied by a large number of stock breeders.

HORTICULTURAL DIVISION.

It is now twenty-six years since horticultural work was begun at the Central Experimental Farm, and during that time much aid has been given to farmers, market gardeners, and fruit growers throughout Canada by means of reports and bulletins, general correspondence, and by addresses at public meetings, based on the results of experiments conducted. The high regard in which the information obtained from the Dominion Experimental Farms is held is clearly shown by the greatly increased correspondence in recent years in which many questions are asked. The accumulated experience and observation of twenty-five years in many parts of Canada makes it possible to make definite recommendations and give good advice to those who desire it and the losses from which prospective horticulturists have been saved by this means cannot be estimated. Those who have also had long experience look to the Experimental Farms for help.

It is the duty of the Dominion Horticulturist to co-operate with the superintendents and managers of the Experimental Farms, Stations and Sub-stations throughout Canada and give them as much help as possible so that there will be a development in the horticultural work in the directions most likely to aid the people in those parts of Canada which the stations are intended to serve. In 1912 the Dominion Horticulturist was able to visit most of the farms and stations twice.

At the station at Charlottetown, Prince Edward Island, there are now good plantations of tree fruits, small fruits, ornamental trees and shrubs and herbaceous plants, and the information already available from the experience with them is of much value. A number of varieties of grapes have been found to ripen well, and while grape-growing may not become a commercial industry there the fact that certain varieties can be grown successfully makes it possible to have an abundant supply for home use.

At Nappan, Nova Scotia, the great advantage of protection from the high winds which occur in many parts of Nova Scotia has been already shown. There has been a marked difference in results in protected and unprotected orchards. It has been shown that fruit growing can be developed much more than it is in these northern counties. The trees in a young orchard recently planted with varieties of apples which have been found to succeed best after over twenty years' experience did well in 1912, and it is proposed to carry on cultural experiments here.

There were twenty-one acres of orchard planted in 1912 at the new station in the Annapolis valley at Kentville, N.S. In this orchard are represented practically all the best commercial varieties grown in Nova Scotia and in sufficiently large numbers for a commercial test. It is the intention to carry on cultural experiments on an extensive scale here as the fruit industry is a very important one in this part of Nova Scotia.

The Dominion Horticulturist visited the new station at Fredericton, New Brunswick, in the autumn of 1912, and planned with the superintendent where the future horticultural experiments would be carried on. It is proposed to make potato experiments an important feature of the work here, and experiments will be begun in the spring of 1913.

The Experimental Station at Cap Rouge, Quebec, situated within a few miles of the city of Quebec, should in addition to its usefulness to the province as a whole, prove of great value from a horticultural standpoint to the people of that vicinity who desire to supply fruit and vegetables to the cities of Quebec, Montreal and other towns of the province, and who should grow more and better horticultural products for home use. The orchards and small fruit plantations did well in 1912. A special effort was made, with good success, in supplying a considerable quantity, to the city of Quebec, of assorted vegetables in hampers, as an example to the market gardeners of the vicinity.

It is proposed to do the first planting at the Experimental Station at St. Anne de la Pocatiere, P.Q., in the spring of 1913, and material for an orchard of apples, pears, plums and cherries has already been ordered.

At the Central Experimental Farm the many lines of experimental work which are in progress were continued in 1912. A number of these experiments were given in some detail in the report of last year. More new and promising apples fruited in 1912, and some excellent seedling strawberries have been named and are being propagated for test in other places. The fruit crop at the Central Experimental Farm was good in 1912.

More attention is being paid each year to horticulture at the farms and stations in the prairie provinces at Brandon, Indian Head, Lethbridge, Lacombe, Rostern and Scott. The thousands of new settlers coming in every year, and those who have been some time in the country, are many of them anxious to grow fruits and vegetables for their own use and apply to these farms for information. It is also gratifying to know that many of the older settlers are seeking advice in regard to trees, shrubs and herbaceous plants that will help them to improve the outside appearance of their homes. The older farms have now a large fund of reliable information which they give freely to all who ask for it.

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In British Columbia there are now three Experimental Farms and Stations. At the Experimental Farm at Agassiz on the lower mainland, fruit growing was for more than twenty years made an important part of the work. It was recently decided, however, that for the lower mainland dairying should be given the most prominence. In 1912 material was ordered for a demonstration horticultural orchard and garden to consist mainly of the varieties which had been found to succeed best in previous years and to be regarded as a plantation such as a farmer would set out for home use. Experiments with ornamental plants were conducted on a larger scale than usual in 1912 as this part of British Columbia is particularly suited for flowers and ornamental trees. Experiments with vegetables are also carried on here.

At Livermere in the Columbia River valley where an Experimental Station was recently established, material was sent in during the autumn of 1912 for an orchard and small fruit plantation to be set out in the spring of 1913. It is planned to try cultural experiments here with and without irrigation. Potato experiments will be given prominence.

At the new Experimental Station at Sidney, Vancouver Island, considerable horticultural work will be done. Material for small fruit plantations, vegetable experiments, including potatoes, flowers and ornamental trees and shrubs were ordered in 1912 for planting in 1913, so that experimental work will soon be in progress.

In May, 1912, the Dominion Horticulturist was sent to England to represent Canada at the Royal International Horticultural Exhibition held at London during that month. This was the greatest horticultural exhibition ever held in any country and much information was obtained that has and will be put to good use in Canada. As President of the Society for Horticultural Science, an international society representing the leaders in horticultural investigation in America, the Dominion Horticulturist delivered the annual address at Cleveland, Ohio, in December, 1912, his subject being 'The Relation of Climate to Horticulture' and among other things, was able to show how suitable a climate there is in many parts of Canada for the cultivation of fruit and vegetables. Other important meetings were also attended throughout the year.

CEREAL DIVISION.

The season of 1912 was even less favourable for cereals than that of the preceding year. Some large areas of country suffered considerably from drought and excessive heat in the early part of the summer. Afterwards the weather changed completely and became cool and wet. These conditions prevailed over almost the whole of Canada. The ripening and harvesting of grain crops were most seriously delayed, and much of the seed was badly injured while in stock. In many districts the hot dry weather of early summer caused the young plants of cereals to send out a small number of heads rather prematurely and, when the rains came and stooling of plants followed, a large crop of late heads was produced. These, though too late to ripen, grew to greater height than the earlier heads; so that when the first heads were ready to be harvested they were almost hidden beneath a mass of green stalks.

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Under such conditions it became extremely difficult to make proper observations on dates of ripening. The yields obtained were also misleading in some instances. Early maturing varieties suffered most, as they were farther advanced (and therefore less capable of recuperating) when the wet weather set in.

The first severe frost came rather later than usual, so that the results of the season were not so disastrous as might have been expected. There was, however a general lowering of the quality of the grain, which was particularly serious in grain intended for seed purposes.

Under such adverse conditions the usual progress in cereal investigations and in the propagation of the best new varieties and selections for introduction could not be made. But the year was by no means unfruitful of results.

MARQUIS WHEAT.

As in previous years this magnificent variety again demonstrated its superiority over all other sorts in the great wheat growing provinces. While in a few cases it suffered so severely from the hot weather that the yields obtained were less than from Red Fife, such instances were quite exceptional. As a rule Marquis outyielded Red Fife by a large margin and ripened, of course, a week or two earlier. Marquis again won the highest award in international competition. At the International Dry-Farming Congress held in Lethbridge, the champion wheat was an exhibit of Marquis grown in Southern Alberta.

A new plot record for spring wheat was obtained with Marquis at Indian Head this past season, when a 1-40 acre plot gave a crop at the rate of over 81 bushels per acre. This is probably a world's record for spring wheat.

It is most gratifying to know that Marquis wheat has been propagated by thousands of farmers with such rapidity that it has been possible for everyone who made the effort in good time during the past winter to secure at least a few bushels of seed. The general recognition now given to this variety is noteworthy, when it is recalled that Marquis wheat was introduced into Saskatchewan in 1907, when about half a bushel of seed was sent from Ottawa to the Indian Head Experimental Farm for trial.

PRELUDE WHEAT.

Small fields and plots of this new and extraordinarily early variety were grown last season at the various experimental farms in those localities where early sorts are required. A few small samples were also sent out to private individuals for test elsewhere. The results have been most gratifying, and show that this most recent introduction by the Dominion Cerealists will be of very great value over large tracts of northern country, for which heretofore no variety of wheat which would ripen sufficiently early has been available. The regular distribution of Prelude wheat to the farmers in five-pound samples was begun this winter. The stock of seed was not large, and consequently much care was needed to send the wheat only to those localities where it was particularly needed. Over two hundred samples were distributed. Provision has been made to grow a good acreage of Prelude wheat this year, so as to have a large stock for distribution next winter.

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ANNUAL DISTRIBUTION OF SEED GRAIN.

The seed distribution is being carried on during this season in a manner similar to that of last year. All the grain sent out is grown with the greatest care, so as to be free from admixture with other varieties, and after threshing it is thoroughly cleaned and hand-picked, if necessary, so as to bring it up to the highest possible standard of purity. By sending out only seed of the best varieties and of extraordinary purity and by the enforcement of reasonable regulations, so that applicants for samples shall be taught the value of good seed, the whole system of distribution has been placed on a much better basis, and cannot fail to be of greatly increased advantage to the farmers of Canada.

CROSS-BREEDING AND SELECTION OF CEREALS AT OTTAWA.

The cross-breeding and selecting of varieties of cereals has been continued at Ottawa. Some crosses were made last summer in which a new, beardless barley was employed as one of the parents. No really satisfactory beardless barley has ever yet been offered to the public, and it is hoped that some of the new sorts now being produced at Ottawa will prove of quite superior quality. Crosses were also made between some of the best of the Cerealist's new varieties of wheat, to see whether still further improvements may not be obtained. Among these the greatest interest will probably be taken in the crosses between *Margis* and *Prelude* wheats, among the progeny of which it is hoped that a new wheat may be secured combining the best points of the two parents and showing advantages over either of them for certain sections of country.

DIVISION OF CHEMISTRY.

The past year has witnessed a considerable increase in the work through which the Division seeks to instruct and advise the individual farmer. There is much of value to be learnt from chemistry regarding the composition and properties of soils, manures, fertilizers, fodders and feeding stuffs, spraying materials, &c., &c., and it has been the constant endeavour to make the division more and more useful as a bureau of information in such matters. It is, therefore, gratifying to note the increasing appreciation of our farmers of this important and directly educational feature of the work.

The samples received for examination during the year numbered 2,821. They comprised soils, fodders, and feeding stuffs, naturally occurring fertilizers, insecticides and fungicides, well waters and other matters of an agricultural nature. While the investigations of the Division furnished a proportion of these samples, the larger number were sent in by farmers, good evidence that our agriculturists are realizing the value of chemical assistance in their work.

The investigatory work, as heretofore, has covered a wide field and the results therefrom have thrown light on many of the problems encountered in general farming, and also furnished useful information to those engaged in one or other of the specialized branches of agriculture, such as fruit growing and dairying. Several important

researches under study for a number of years past have been continued, such as the economic maintenance and increase of soil fertility, the conditions which lead to the control of soil moisture and the influence of environment on the composition of wheat and in addition certain new investigations have been inaugurated which, it is expected will furnish results of value to Canadian agriculture.

The Nitrogen-enrichment of Soils.—The study of soils in the field and in the laboratory prosecuted by this Division, has indicated that nitrogen is the plant food constituent which above all others determines fertility, that it is the dominant element in so far as food is concerned, affecting growth. Further, it is of all the elements furnished by the soil to the crop the one that is most quickly dissipated by irrational methods of farming. These conclusions have given a special impetus in the carrying on of investigations towards the maintenance and increase of the nitrogen content of soils, on the farm, in the orchard and under conditions of management and climate of a special character.

The value of the legumes, clover, alfalfa, vetches, etc., as nitrogen enrichers has been determined in several ways by this Division during the past quarter of a century. One of the investigations in this connection, that has been in progress for ten years may be briefly referred to, as the results obtained are very significant. A plot of light, sandy soil, too poor at the outset for profitable farming, was supplied with available phosphoric acid and potash and inoculated with a clover culture. It was then sown with common red clover, which as it grew was cut and left on the ground. Every second year the plot was dug and resown to clover. Analyses of the soil have been made from time to time and each analysis showed that in spite of losses consequent upon cultivation there was an increase in the nitrogen content. At the end of ten years it was found that an average annual gain of 50 pounds of nitrogen per acre had been made during that period, or in other words, the surface soil in that time had doubled its nitrogen content a result that furnishes proof of an indubitable character of the practical value of clover in the rotation.

Closely related to the foregoing, another experiment was started last year (1912) on the Central Farm, using a series of plots upon which a rotation of clover, grain and corn or roots would be followed, no manure being applied. This series, from crop yields and analysis of the soil, will it is expected give valuable data as to the up-keep of soil fertility for those whose supply of manure is limited and show how far it may be possible, on a sandy loam, to maintain productiveness by this procedure—that is, simply by the introduction and periodic growth of a leguminous crop.

The facts as regards the practical benefits from the use of 'cultures' and of soil from fields bearing a leguminous crop for inoculation purposes, as gathered from our experiments in various parts of the Dominion, have been collated. They show that on the whole more satisfactory results may be expected from inoculation with soil—applied at the rate of from 100 to 300 lbs. per acre and harrowed in at the time of seeding—than from the prepared cultures found on the market. They further indicate that inoculation is not so generally necessary as was at one time thought but that failure to obtain a good catch of clover is frequently due to an uncongenial condition of the soil, such as sourness, deficiency in lime or want of sufficient moisture to sustain the young and tender crop.

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Canadian Soils.—Some additional knowledge regarding the soils of the Dominion has been gained by the analysis of samples representative of certain untilled areas in the various provinces.

Conservation of Moisture.—The experiments instituted on the western experimental farms with the view of ascertaining the influence of various cultural operations and croppings on the moisture content of the soil, have been continued. This important and difficult problem will yet require years of patient and laborious work, but already there is some proof of the value of early and deep ploughing and of frequent surface cultivation for the storing and conservation of the moisture in regions of sparse precipitation. The protection furnished by certain forage crops, as for instance peas and oats, against surface evaporation has also been shown.

Naturally-occurring Fertilizers.—In this connection attention has been more particularly directed during the past year towards the use of ground limestone as an amendment. There seems little doubt but that this material will be found of value for sour soils and those deficient in lime, both clays and sands. It may also be expected to improve peaty and muck soils. In many cases it would be a cheaper and safer material than quick lime. As efficiency will depend on the percentage of carbonate of lime present and the degree of fineness to which the limestone has been ground, these determinations have been specially made in the examination of a number of samples submitted to the farm laboratories, and which have been sent from several of the eastern provinces as well as from British Columbia.

Fodders and Feeding Stuffs.—A considerable amount of analytical work has been accomplished in the valuation of feeding materials of various classes. The information thus afforded should be found useful by farmers, who in these days of high values, must in some measure at least seek to correlate nutritive properties with current prices, if due economy in feeding is to be practised.

The influence of heredity as affecting the feeding value of mangels has received further study and the results have emphasized that very considerable differences exist between varieties commonly sown. This shows that not only should yield and keeping qualities be considered, but that composition and feeding value as determined by analysis should also be ascertained by those growing this valuable crop. As an example of this research it may be stated that the Gate Post or long red variety proves on examination to be much superior to the Yellow Globe, both in dry matter and sugar.

Sugar Beets.—The leading varieties of factory sugar beets have been grown on the experimental farms and stations throughout the Dominion and the product examined as to purity and sugar content. The data give evidence of the possibility of growing excellent beets in many widely distant parts of Canada.

The Fertilizing Value of Rain and Snow.—This investigation, which has for its object the estimation of the nitrogen compounds in the precipitation at Ottawa, was begun in 1906. For the year ending February 28, 1913, the rain furnished 4.663 lbs. and the snow 1.479 lbs. per acre.

The Water-supply of the Farm Homestead.—Examination of waters from farm wells has from the first been a feature of the work of this Division. It has been one of great usefulness and has led to a marked improvement in the water used on the farm and, in the creamery and cheese factory throughout the country. During the year 279 samples of such waters were examined and reported on.

Meat Inspection Division, Health of Animals Branch.—The work in connection with this Division consists in the chemical and microscopical examination of samples collected under the direction of the Veterinary Director General at the various packing and canning houses in the Dominion. During the year 185 such samples have been analysed and reported on. They comprised preserved meats, lard, beef, fat, tallow, fillers for sausage, dye stuffs and colouring matters, preservatives and pickling solutions, spices and condiments. This work constitutes a control of great value in connection with the wholesomeness of the products of Canadian packing houses and canneries.

A number of investigations, more or less closely related to agriculture and rural economy, have been referred, as in past years, to this Division by several departments of the government service having no provision for chemical work. In this way, valuable assistance has been given towards the solution of several problems of wide importance.

DIVISION OF ENTOMOLOGY.

The work of the Division of Entomology has comprised: The administration of the regulations under the Destructive Insect and Pest Act which includes the inspection and fumigation of nursery stock and other vegetation entering Canada, and the suppression of the brown-tail moth in the provinces of Nova Scotia and New Brunswick; the administration of an appropriation for the care of the Indian orchards in British Columbia; the carrying on of investigations at field laboratories located in certain of the provinces; the investigation of forest insects and their depredations; the answering on inquiries and the giving of advice concerning insects affecting farm, orchard and garden crops, forest and shade trees, live stock, grain and stored products and public health; the identification of collections of insects for individuals and educational institutions and the classification and arrangements of our own entomological collections; the carrying on of investigations upon the life histories of insects and the study of binomical questions in relation to the problems of insect control.

Under the Destructive Insect and Pest Act upwards of four million imported trees and plants were inspected. The necessity and value of this inspection was indicated during last year's work by the discovery by our officer at Vancouver of egg masses of the gipsy moth on an evergreen shrub imported from Japan. Several hundred caterpillars which we obtained from these egg masses, sufficient to start a serious outbreak of the insect. The increase in the number of trees imported into western Canada and which require fumigation is now so considerable as to necessitate the provision of an additional port of entry and fumigation station at North Portal, Sask. Additional precautions to prevent the introduction of the gipsy moth on forest products from the infested New England States were taken by requiring shipments of such products to be accompanied by a certificate of inspection. In order to prevent the introduction

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of the Mediterranean Fruit Fly the importation of non-canned fruit from the Hawaiian Islands was prohibited. The Brown-tail Moth constitutes a serious problem in eastern Canada. While we are succeeding in maintaining control of it in Nova Scotia, the infested area in New Brunswick was found to be about 6,400 square miles in extent although only 2,452 winter webs of this insect were collected in that area. Efforts are now being made to introduce and establish in Canada certain of the European parasites of the Brown-tail and Gipsy Moths which have been successfully imported from Europe and colonized in the New England States Department of Agriculture whose co-operation in this effort I am pleased to gratefully acknowledge.

During the year a very distinct advance in the work of studying injurious insects and the methods of control was made by the establishment of entomological laboratories in different parts of Canada where serious insect pests occurred. By these means investigations of decided practical importance on insects affecting fruit trees and field crops were carried out in Nova Scotia, New Brunswick, Quebec, Ontario, both in the Niagara fruit district and in the western part of the province, and in British Columbia. The officers in charge of these laboratories were able to render valuable assistance to the farmers and fruit growers by giving addresses at meetings and personal advice. Owing to a serious outbreak of cutworms in southern Alberta which resulted in the destruction of about thirty to forty thousand acres of grain, arrangements have been made to carry out investigations in that region.

Considerable attention has been devoted to the study of insects affecting forest trees. The Assistant Entomologist in charge of forest insect investigations made visits to the Riding Mountains Forest Reserve in Manitoba, the Algonquin National Park and certain parts of Quebec for the purpose of studying insect damage. The fact that this aspect of forest protection has not been previously studied in Canada renders a large amount of preliminary work necessary. An attempt is being made to introduce and establish the useful parasitic enemies of the Larch Sawfly from England.

The distribution of the Rocky Mountain Spotted Fever Tick was studied, and it was found to be fairly common in southern British Columbia. Investigations on the Stable Fly, which has been shown to be a possible disseminating agent of infantile paralysis (Poliomyelitis), were also commenced, and a vigorous campaign against the House Fly was continued.

In August the Dominion Entomologist attended the International Congress of Entomology at Oxford, England, and afterwards attended a conference at the Colonial Office at which a scheme was worked out for Imperial co-operation in preventing the spread and furthering the investigation of injurious insects throughout the Empire. An Imperial Bureau of Entomology has been formed in London, and it is to be maintained by the Dominions, Colonies and the Colonial Office. By the collection of information and the co-ordination of effort it will undoubtedly be of material assistance to the various parts of the Empire in their efforts to control and prevent the introduction of insect pests. The Dominion Entomologist and his assistants have made visits to various provinces for the purpose of investigation and to deliver addresses before agricultural and other associations during the year.

DIVISION OF BOTANY.

This Division deals annually with numerous enquiries received from farmers who seek advice concerning the identification and eradication of noxious weeds, and who present their requests for information about diseases affecting their various crops. Among the most important diseases known are the various grain smuts, which annually cause an immense loss. It has recently been estimated that the losses in Canada from smut diseases of grain amount to some \$16,000,000 per annum. During the past few years the staff of this Division has carried on researches into certain points of the life history of smut fungi causing these diseases, with the view of ascertaining and proving the best methods of control. A bulletin dealing with this subject is now being prepared and will shortly be ready for distribution.

The potato crop of the Dominion is also subject to a large number of specific maladies, some of which cause considerable damage to the growing crop, while others destroy from 5% to 30% of the potatoes after they are placed in storage. Considering the total harvest of potatoes during 1912, which is valued at \$32,173,000, these losses are considerable. In order to investigate the question of a satisfactory control of such destructive diseases the Dominion Botanist has carried out during the last season an experiment on a field of four acres with the object of providing potatoes free, or as free as possible, from disease. The results of this experiment, which will be carried on for a number of years, will eventually be published, and it is hoped will result in an improvement in the practice of potato growing.

Careful inspection is being carried on throughout the more important potato growing centres, with a view to guarding this industry from an invasion of potato canker, a destructive disease of European origin. Every precaution has been taken to prevent the introduction of this disease by means of seed potatoes imported from England. The fact that this disease was discovered early in the spring of 1912 in some shipments from England made it necessary, in order to protect the Canadian growers, that the importation of potatoes from Europe should be prohibited by an Order in Council. The danger, however, has by no means passed, and it is very desirable that the farmers join the Department in its efforts and immediately communicate with the Dominion Botanist in case any suspicious signs become noticed.

Another phase of the work of this Division is the investigation of diseases affecting various orchard and fruit crops. In order to pay the closest attention to the practical means of control of various destructive diseases, I have caused a field laboratory to be established in St. Catharines. The work of this laboratory is under the direction of the Chief Officer and is in charge of a competent pathological assistant who devotes his time to a close study of the particular needs of the fruit growers in this important district. While, of course, during the short time of the establishment of this laboratory no definite conclusions have been arrived at as regards the various diseases which are studied, it has been shown by the keen interest taken by the fruit growers in this work, and by its progress, that the laboratory serves a very desirable purpose. It is a great advantage to be able to carry out experiments of this kind in the orchards themselves, instead of conducting them in a central laboratory where the conditions

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for investigation are very different. Besides, the daily intercourse of the trained specialist with the fruit growers is found very instructive. It is hoped that the work in this direction will be considerably extended.

The scientific laboratories of the Division at Ottawa being well equipped for researches of mycological and bacteriological character, have been used this season for conducting an inquiry into the bacterial contamination of the milk produced at the Central Farm. After a close study of the sources of contamination, and the elimination of the same as far as practicable, the purity of the milk not only came up to the highest standard, but surpassed any natural milk produced.

The usual progress was made in adding to the various scientific collection of the Division. The usefulness to the general public of the Botanic Garden which is now attached to this Division has been greatly increased by the display of conspicuous labels on the various trees and shrubs and other plants.

Part of the work devoted to the improvement of fodder plants and the experimental plots has been transferred to the newly formed Division of Agrostology. The work of the Division of Botany as a whole may be considered as having made important progress in its varied phases.

POULTRY DIVISION.

In conducting the experimental work of this Division, during the year, as in many years past, the object was to obtain such information as would aid the farmers of the country in making the poultry branch of their farm work a profitable one. With this object in view, the experimental effort was directed to the feeding of such rations as were likely to secure a profitable egg yield during the winter season—the period of highest prices—and later in the year, the hatching of a number of chickens, which would make a superior quality of poultry.

The experimental work of the last year went to confirm conclusions arrived at in previous years, particularly the two following respects, viz.:—

That the better quality of poultry can only be produced by rearing chickens of the best utility types. In order to have the best results, it was clearly shown that chickens require to be carefully looked after, and regularly fed, from time of hatching to the saleable age. It is to be borne in mind that chickens which are allowed to pick up their own living, a practice too common among many poultry breeders, do not make the best specimens.

The call of the cities is loud and insistent for strictly new laid eggs, and for which the consumers are willing to pay the best price. By the establishment of egg circles in different parts of the country, it is hoped that farmers will be aided to more immediately reach the consumer and so obtain the best value for his product. A better price should certainly prove a greater incentive to production. For the better quality of poultry there is also a great demand at paying figures.

In the report of the Poultry Division of the Central Experimental Farm for 1912 will be found detailed information as to prices, purchasers, etc. Producers are also shown the best means of obtaining both eggs and poultry at the proper seasons.

A feature of the experimental work of the past year was continued trials of the fresh air, or open front poultry houses, and which method decidedly showed its superiority to the closed or partly warm system of keeping poultry, so much in vogue during past years. There are several styles of fresh air houses, such as the Cotton Front House, the Woods, and the Tolman, all of which have shown more or less merit, but none has given more satisfaction than the Cotton Front house, which is cheap and easily constructed. Further experiments in this and other styles of poultry houses are looked forward to with interest.

A large and rapidly growing correspondence is proof of the greater interest that is being taken in the poultry branch of agriculture throughout the country.

THE TOBACCO DIVISION.

During the year the Tobacco Division was added to the Dominion Experimental Farm system.

Tobacco-growing was carried on during the season at Ottawa and at Harrow in Ontario, and at St. Jacques l'Achigan and Farnham in Quebec.

The plantation at Ottawa is about 1½ acres in extent, a considerable portion of which is used for the production of seed, which is sent out to growers anxious to try the best varieties. The demand for these samples is constantly growing, some 3,600 packages having been sent to all parts of Canada during the year.

At St. Jacques l'Achigan, a fairly satisfactory crop was harvested, consisting of Comstock, Cuban and Aurora.

At Farnham, it being the first year that tobacco has been grown on this newly-acquired property, its production was somewhat difficult, owing to the poor preparation of the soil, and the returns were not very good in some cases. Very remunerative crops of Big Ohio and Sumatra, however, were obtained. Other varieties grown were Yamaska, Havana Seed Leaf, Brazil, Comstock Spanish, Rusticas and Cuban.

At Harrow, Burley is the principal variety grown, and a very satisfactory amount per acre was harvested.

DIVISION OF FORAGE PLANTS.

Since the establishment in the spring of 1912 of the special Division of Forage Plants it has been possible to pay more attention to the work with Forage Plants and Forage Crops than heretofore. The work of the Division of Forage Plants includes at present work with grasses, clovers and other leguminous forage plants, field roots and Indian corn.

The comparative tests of different varieties of the above groups which have been conducted during a number of years have been continued.

In addition to the comparative tests of old so called varieties of different grasses and clovers a new line of work has been started: improvement by means of selection of individual plants.

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During the summer of 1911 it was observed that there existed within Red Clover, Alsike Clover and Timothy a remarkable individual variation as to the characters of the seed. While in a given plant all seeds formed proved to be of the same general size, colour, shape, etc., the differences between the seeds produced by different plants proved to be extremely great. The practical outcome of the existence of different seed types as indicated above, makes it likely that it might be possible by proper breeding varieties of clovers and grasses with a distinct type of seed, which could be checked as to trueness of name from their seeds.

With a view of producing high yielding strains of Timothy characterized by a certain seed type the seed of a number of especially selected plants has been sown in flower pots separately. From each lot of seedlings thus obtained a certain number has been selected and planted in the field for further study. Over twelve hundred individual plants of Timothy are thus grown at present.

Similar work with Red Clover and Alsike Clover has also been started, though on a smaller scale.

EXPERIMENTAL STATION, CHARLOTTETOWN, P. E. I.

Seeding was backward in Prince Edward Island in 1912, commencing at the Station on May 31 and growth was slow until the end of June. Heavy rains in July and August injured much of the hay crop, while the early grains. Later grains matured very slowly, but were well filled. Potatoes were a good crop, as were turnips and carrots. Corn, mangels and sugar beets were rather below the average in yield.

Some forty acres, made up of several small adjoining properties, were added to the Station.

A sheep barn 100 feet by 20 feet and two portable poultry houses were built.

EXPERIMENTAL STATION, FREDERICTON, N.B.

The properties purchased for this Station, about 460 acres in area, are within the limits of the City of Fredericton and front on the St. John river. The Station is crossed by the C.P.R. and the St. John Valley R.R.

Considerable clearing and some ditching were done in the autumn of 1911 and during the winter. The work of getting the land in shape for crops, erecting buildings, setting out orchards, etc., will be continued this season.

EXPERIMENTAL FARM, NAPPAN, N.S.

The spring at Nappan was dull and cold, with some frosts in April. May was cold and dry until the last week, when the rainfall was heavy. Seeding was not general until about the 15th of that month.

From July 22 until the end of August, rainfall was almost continuous, making haying almost impossible, and greatly injuring the grain and root crops. The remainder of the season was suitable for harvesting and fall work, no frost being registered until Nov. 30.

Grain and roots were a fairly good crop, but corn was very poor, owing to the cool, wet weather.

EXPERIMENTAL STATION, KENTVILLE, N.S.

This Station has been increased in area by the purchase of 44 acres, making its total area 294 acres at the present time.

During the past year eight buildings were put up, namely a barn, root house and silo, a carriage house, a dairy, a greenhouse, a poultry building, a double tenement house, a foreman's house and a house for the Superintendent. These are all wooden buildings, most of the material for which was cut on the Station.

Clearing has been actively carried on and also grading and road-making. An area of some 100 acres is taken up by a ravine about one and one-fourth miles long and heavily wooded. This will be reserved as a natural park.

About eighteen and one-half acres of orchard have been set out.

EXPERIMENTAL STATION, STE. ANNE DE LA POCATIERE, QUE.

The season at this Station was very cold and wet, and crops, which were harvested with great difficulty, were, as a rule, poor in quality and low in yield.

No suitable buildings have yet been erected here, those which were on the Station when purchased having been made to serve for the time being, but it is planned to build during the coming season.

Considerable machinery has been purchased, and five horses are employed at present for the farm work. Water has been piped to the farm and will be laid to each of the buildings when erected. Roads along the farm frontage have been improved and a large amount of fencing and draining done. Stone has been gathered from the fields for use in building operations. No experimental work was carried on here this year.

EXPERIMENTAL STATION, CAP ROUGE, QUE.

The season of 1912 was a very unfortunate one, and all crops except hay were below the average.

Continual rains during May and the first half of June delayed seeding, and most of the oats were sown during the first half of the latter month. This was followed by a drought until the end of July. Wet weather during August, September and October retarded haying and harvest and injured the quality of the grain, much of it being rendered unfit for seed. Corn was practically a failure.

Seven acres were added to the area under orchard this year. A granary was erected and also a workshop. Work was commenced on a water system for the farm buildings. Some seven acres were stumped and ploughed, about 8,000 feet of tile drain laid and the ditching done for 3,000 feet more.

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EXPERIMENTAL FARM, BRANDON, MAN.

The growing season at Brandon was one of extremes, wet and cold delaying seeding, while June was extremely dry. Wet weather then prevailed until the end of September, greatly hindering harvesting and threshing and lowering the quality of the grain.

Experimental work with different rotations and with various cultural methods was continued, and also experimental feeding of steers and lambs.

No new buildings were erected here this year.

EXPERIMENTAL FARM, INDIAN HEAD, SASK.

As a rule, grain crops gave good returns. Fall wheat, which does not usually succeed here, gave a good yield, though the sample was only fair.

During the year a larger horse stable to reduce the loss destroyed by fire, was erected, and a new silo put up. A granary was also built, and an implement shed for the larger machines. Before winter set in, beginning was made on the cement work for a barn.

EXPERIMENTAL STATION, ROSTHERN, SASK.

Seeding began here on April 19, and crops did well until dry weather set in early in June. Later rains caused fresh growth, which was not even mature at cutting time. The wet weather of August, September and October hindered harvesting, but the long autumn enabled threshing to be carried on throughout November.

The cultural and rotation work begun in 1911, was got more fully under way.

A contract was let for a new barn at this Station and some progress was made with the cement work before winter set in. The building will be completed during the coming summer.

EXPERIMENTAL STATION, SCOTT, SASK.

Seeding operations commenced on April 13. Weather conditions during the early part of the season were favourable, on the whole, but heavy rains in July caused a second growth resulting in much immature grain. The season for fall work was short, ploughing being stopped by frost on October 31.

The area devoted to horticulture was enlarged and considerable planting, including a new orchard, was done.

An implement shed, 79 feet by 25 feet was put up.

EXPERIMENTAL STATION, LACOMBE, ALTA.

The first seeding was done at Lacombe on April 15, growth was rapid but maturity and harvesting were delayed by wet weather. The precipitation for the year, 23.64 inches, was the heaviest on record.

During the year 360 acres were added to the Station, which now comprises about 520 acres in all. This additional area will furnish much needed room for horticultural, cereal and field work and will also provide range and forage for live stock, which have not hitherto been kept. Eighteen Aberdeen-Angus and twelve Holstein-Friesian cattle were purchased. The total number of cattle on the Station at present is 63.

A commencement was made in establishing a poultry plant and experiments were conducted in the fattening of steers, both with and without shelter, with satisfactory results.

Ten mares were purchased during the season and work in horse-breeding will be carried on.

In connection with the work with cattle, a dairy barn, a beef barn, a storage barn, a dairy and an ice house have been erected, as well as a cottage for the head herdsman.

EXPERIMENTAL STATION, LETHBRIDGE, ALTA.

The season of 1912 opened early at Lethbridge and the first seeding was done on April 1. The precipitation during April, May and June was very light so that crops suffered, especially winter wheat. On the irrigated portion of the Station, water was applied in some cases, as early as May. July, August and September gave a rainfall above the normal and there was some difficulty in curing the alfalfa.

Considerable damage was done in the Lethbridge district by cutworms. Methods of combatting this trouble are to be tested this year by entomologists sent out from the Central Experimental Farm.

As usual, experimental crop production work was carried on, both on the irrigated and non-irrigated portions of the Station. Feeding experiments were conducted with steers and lambs, with good results.

EXPERIMENTAL FARM, AGASSIZ, B.C.

The season of 1912 opened quite favourably, and most of the seeding was completed by the end of April. May was a good growing month, and the hay crop in June was saved in good condition. Harvesting commenced on the Experimental Farm on July 29. Before the grain could be hauled in, wet weather set in, and it was the latter half of August before the crop could be brought from the fields. Although there was much rainfall during the remainder of the growing season, fall work was left in good shape, there being but a touch of frost and no snow during the month of November. The yields of roots and potatoes were good, although the latter were somewhat affected with blight.

The condition of the live stock throughout the year was excellent.

The buildings put up the previous year were painted, the water system was completed, and the dairy building finished, and an ice house built in connection with it. A poultry laying house was erected, as well as a building for entomological work. A boarding house for the men employed on the Farm has been almost completed, and will be ready for occupancy in a month or six weeks.

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EXPERIMENTAL STATION, INVERMERE, B.C.

During the year preliminary work was put under way to get the land ready for crop and the application of irrigation. Thirty-five acres were cleared ready for crop. A combination barn, stable and granary was built, 46 x 30 feet.

Some twenty-six acres were sown to oats, sixteen to red clover, and four to alfalfa. Two acres of potatoes gave a good return.

Implements and horses have been purchased, and the work of planting and seeding, clearing, etc., will continue as soon as possible this spring.

EXPERIMENTAL STATION, SIDNEY, B.C.

Clearing work has been carried on vigorously at Sidney, and some 54 acres of the most heavily timbered land on the Station have been cleared and fenced. Some crop will be put in during the coming season. An avenue 150 feet in width has been laid out along the north side of the farm, extending from the Victoria and Sidney road to Bazan Bay. It is expected that horticultural work will take a prominent place at this Station, and plantations are already being set out. No buildings have yet been erected.

SUBSTATIONS.

Experimental work was carried on, in addition to that done at the Experimental Farms and Stations proper, at several points in the more northerly parts of the prairie provinces, namely at Fort Vermilion in the Peace River district, Alta., at Grande Prairie, Grouard, and Athabasca Landing, also in Alberta, and at Forts Smith, Resolution and Providence, in the Mackenzie district. Some work in 'dry-farming' was also conducted at the Harper Ranch, Kamloops, B.C. With the exception of the last-named, where the season was very unfavourable, the results obtained this year were very satisfactory, having in view the many difficulties with which the experimenter must contend in these northern localities.

CROPS OF THE DOMINION.

The season of 1912 cannot be said to have been a good one in most parts of Canada. The spring was generally backward and the weather up to the end of May cold and wet, especially in the provinces of Nova Scotia, New Brunswick and Quebec. Fall wheat in Ontario and the West suffered considerably from winter-killing. The unfavourable conditions of May were continued throughout June in eastern Canada and growth was slow as a result. In the west the month was hot and dry, but rains in July improved the prospects greatly. During August and September, wet weather was prevalent throughout the Dominion and harvesting operations were greatly delayed. As late as September 30, large areas of grain both in the east and in the west, were yet uncut or were still in the stock. Damage was done by second growth causing uneven ripening, and by sprouting.

Roots and Potatoes showed a larger yield than that of the previous year, while hay and clover was smaller, due, to a great extent, to the weather being unfavourable at cutting time.

The following table gives the areas and final estimates of yield and value of the principal field crops, as given in the Census and Statistics Monthly for December, 1912.

Areas and Estimates of Yield and Value of Field Crops, 1912.

Crops.	Area.	Yield per Acre.	Total Yield.	Weight per Measured Bushel.	Average Price.	Total Value.
	Acres.	Bush.	Bush.	Lb.	\$	\$
Canada—						
Fall wheat.....	781,000	20 99	16,396,000	60·21	0 84	13,735,000
Spring wheat.....	8,977,400	20 37	182,840,000	58 90	0 60	109,787,000
All wheat.....	9,758,400	20 42	199,236,000	59 22	0 62	123,522,000
Oats.....	9,216,900	39 25	361,733,000	35 40	0 32	116,996,000
Barley.....	1,415,200	31 10	44,014,000	47 59	0 46	20,405,000
Rye.....	136,119	19 06	2,594,000	54 84	0 73	1,904,000
Peas.....	259,820	15 04	3,773,500	56 88	1 26	4,771,800
Buckwheat.....	387,000	26 34	10,193,000	47 62	0 62	6,337,000
Mixed grains.....	522,100	34 38	17,952,000	44 48	0 59	10,690,000
Flax.....	1,677,800	12 92	21,681,500	54 88	0 91	19,626,000
Beans.....	59,800	17 40	1,040,800	59 05	2 20	2,291,500
Corn for husking.....	292,850	56 58	16,563,800	55 67	0 62	10,325,400
Potatoes.....	472,400	172 19	81,343,000	.....	0 39	32,173,000
Turnips, etc.....	217,400	402 51	87,595,000	.....	0 23	20,713,000
		Tons.	Tons.		Per Ton.	
Hay and clover.....	7,633,600	1 47	11,189,000	.....	11 07	124,009,000
Fodder and corn.....	287,740	10 26	2,858,900	.....	4 74	13,557,500
Sugar beets.....	19,000	10 74	204,000	.....	5 00	1,020,000
Alfalfa.....	111,300	2 79	319,100	.....	11 65	3,699,900

For the purpose of comparison, the estimate from the same source is given for the previous year, 1911. The tables show that, in 1911, from a total area under crop of 32,404,110 acres, a harvest was reaped which, at local market prices, was worth \$558,099,600. In 1912, from a total area under field crops of 32,449,000 acres, a return was obtained, which, on the same basis of valuation, was worth \$511,951,000.

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Crops.	Area.	Yield per Acre.	Total Yield.	Weight per Measured Bushel.	Average Price Per Bush.	Total Value.
	Acres.	Bushel.	Bushel.	Lb.	\$	\$
Fall wheat	1,172,119	22.19	26,014,000	61.12	825	21,461,000
Spring wheat	9,291,839	26.63	189,837,300	59.21	611	117,196,000
Oats	9,219,929	37.76	348,187,600	34.65	364	126,814,000
Barley	1,491,352	28.94	40,641,000	46.97	566	23,094,000
Rye	142,571	18.89	2,694,400	55.41	774	2,086,000
Peas	287,135	15.80	4,536,300	59.78	1,025	4,647,700
Buckwheat	359,397	22.69	8,135,300	47.32	611	5,232,000
Mixed grains	559,991	29.78	16,679,000	45.19	607	10,127,000
Flax seed	682,622	11.42	7,897,000	53.29	1,507	11,855,000
Beans	60,639	19.66	1,195,600	58.30	1,920	2,219,000
Corn for husking	316,194	59.39	18,772,700	59.31	648	12,171,900
Potatoes	159,947	143.82	66,023,000		60	39,358,000
Turnips, &c.	227,141	373.92	30,363,000		23	19,541,000
					Per Ton.	
Hay and clover	7,993,242	4.61	12,694,000		11.55	145,596,000
Fodder corn	285,321	9.92	2,577,200		4.84	12,469,000
Sugar beets	29,878	8.66	177,000		6.58	1,165,000
Alfalfa	191,781	2.24	227,900		9.868	2,249,000

NOTE.—The figures of flax seed represent only estimates prepared in the Census and Statistics Monthly of April, 1912.

LIVE STOCK.

It will be noted from the table given below that the estimated numbers of live stock in the Dominion, as given in the Census and Statistics Monthly for July, 1912, show decreases except in the cases of horses and dairy cattle. Figures are given for the five years 1908-12. The condition of all classes of live stock was excellent, the figures given being in comparison with 100 per cent as representing perfect condition.

Statistics of Live Stock on Farms, 1908-1912.

Live Stock.	Number of Animals.					Per cent of Standard Condition June 30, 1912.
	1912.	1911.	1910.	1909.	1908.	
Canada—						
Horses	2,336,800	2,266,400	2,213,199	2,132,489	2,118,165	97.43
Milch cows	2,890,100	2,876,600	2,853,951	2,849,396	2,917,716	98.26
Other cattle	4,093,690	4,210,000	4,260,963	4,384,779	4,629,836	98.33
Sheep	2,360,600	2,389,300	2,598,470	2,765,390	2,831,404	97.55
Swine	2,656,400	2,792,200	2,753,964	2,912,599	3,369,858	96.09

HEALTH OF ANIMALS BRANCH.

The resignation of Dr. J. G. Rutherford, C.M.G., Veterinary Director General and Live Stock Commissioner having gone into effect with the close of the last fiscal year, the conduct of the Health of Animals Branch devolved upon Dr. George Hilton, Chief Veterinary Inspector, until the appointment of Dr. F. Torrance as Veterinary Director General on August 1st, 1912.

The officers of the Branch have energetically handled any outbreaks of the diseases enumerated in the Animal Contagious Diseases Act which occurred in Canada, in addition to the work of inspecting every animal entering Canada and the testing with mallein of all horses not accompanied by satisfactory certificates of such test. The supervision of the cleansing and disinfection of stock cars at many large traffic centres has also been undertaken.

Owing to the prevalence of Foot and Mouth Disease in the United Kingdom, it was deemed advisable to refrain from issuing permits for the admission of ruminating animals and swine therefrom for a very considerable portion of the year, consequently the number of pure bred cattle and sheep entering Canada at Quebec was very small. It has recently been found possible to remove this restriction, and importations will be allowed to enter after the close of this fiscal year on March 31.

Glanders is well under control in all parts of the Dominion except the Prairie Provinces, where, however, a determined effort is being made, with the aid of a large force of Inspectors, to bring this most troublesome disease to a more satisfactory basis. The rapid growth of the settlement over a large area and the facility which exists for the coming in contact of infected animals with those showing no evidence of disease but affected with glanders, are great factors to be taken into consideration. That the efforts of the Branch in Saskatchewan, which has always been the most difficult Province to deal with, are being crowned with success, may be gathered from the fact that the number of horses slaughtered has dropped from 722 the previous year to slightly over 400 for the past twelve months. In Alberta there is an increase, due largely to the increased settlement and the larger staff detailed to thoroughly cope with the disease. So many range horses, formerly running on the open prairie, and if suspected, tested en bloc, are now sold to and distributed among the other horses of settlers that, in tracing up contact cases it is necessary to devote much more time and more Inspectors to the work, with the probability of finding more extensive infection than was the case under range conditions.

No *Glanders* was discovered in British Columbia, while in the province east of Saskatchewan less than sixty infected animals were slaughtered.

Dourine or Maladie du Coit has also occupied the attention of our Veterinary Inspectors in the Prairie Provinces, every possible precaution being taken to ensure rapid quarantine of all suspected cases of this most insidious disease. The number of horses quarantined is somewhat large as compared with those slaughtered, but it has been deemed advisable to hold all contact animals until their freedom from disease is clearly demonstrated. The number of animals slaughtered was, as last year, less than 20, while over 200 were quarantined. A modern Biological Laboratory has

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been constructed at our Dourine Experiment Station at Lethbridge, which has been under the able direction of Dr. Watson, one of the Pathologists of the Branch, for many years past, and the work now being conducted there is of the greatest possible benefit in the detection and increasing our knowledge of this malady.

Mange of Horses and Cattle has been given the special attention of a corps of range riders in Alberta and Saskatchewan, in addition to that of the Veterinary Inspectors under whom they work. A most gratifying diminution in the numbers of cattle and horses found affected can be recorded, considerably less than half the total of horses and cattle quarantined as diseased in the previous twelve months being discovered. The number of animals quarantined as contacts also underwent a correspondingly gratifying diminution of over 50 per cent.

The conditions existing in the mange area in British Columbia are now sufficiently satisfactory to admit of the removal of the present restrictions, and steps have been taken with that end in view.

Sheep Scab is now practically non-existent, only one outbreak being discovered during the past year, that being in the province of Manitoba, where 62 animals were found to be affected. A thorough inspection of all sheep in the locality was made and steps taken to ensure the dipping of the animals and disinfection of the premises. Many thousands of sheep were imported in the western provinces and a thirty day quarantine was imposed on all those entered except for immediate slaughter.

Hog Cholera has, I regret to state, continued to engage the attention of my officers in western Ontario and the western provinces, eastern Canada still remaining free from the ravage of this disease. Nearly 5,000 hogs were slaughtered in western Ontario, as compared with 1,500 the previous year, while in Saskatchewan the number increased from 158 to nearly 1,400. There were satisfactory decreases in Manitoba from 2,218 to 250, and in Alberta from 316 to 150; but in British Columbia the number slaughtered mounted from 58 to 1,550. Every effort has been made to localize the outbreaks, and rigid quarantines have been imposed on surrounding premises.

It has also been deemed advisable to prohibit the importation, manufacture or use of hog cholera serum in Canada. Every effort is being made to advise hog owners to thoroughly cook garbage before feeding, and the amendment of the Hog Cholera Regulations last year with a view to restricting the feeding of raw garbage has been made thoroughly known and owners advised accordingly.

Rabies has made its appearance in Ontario and Alberta, and stringent quarantines of suspected and contagious premises and dogs thereon have been made. Nearly all the quarantines so imposed have now been raised, and it is hoped that no further outbreaks will occur. 112 premises were quarantined in Ontario, as compared with 123 of the previous year, and 41 were placed under restriction in Alberta.

Tuberculosis has only been dealt with by the testing of cattle for import or export, and those herds placed under the control of the Department. 2,700 tests were applied

as compared with 1,198 of the previous year the percentage of reactors being only 1% as compared with a previous 5%. 3,500 tests were made by private practitioners, with tuberculin supplied by the Department against 2,238 the previous year, the percentage of reactors obtained being 4% as compared with 11%.

Dr. Hadwen has been engaged in the work of investigating the nature and cause of Redwater among cattle in British Columbia, and is stationed at Agassiz where a Branch Experiment Station has been established.

A complete and up to date Laboratory has also been added to the equipment of the Dourine Experiment Station at Lethbridge, Alta., where much good work is being done in connection with that insidious disease.

The Quarantine accommodation along the boundary has been improved as much as financial conditions would permit, and the work done by the Veterinary Inspectors at the numerous Quarantine ports has been most effective in keeping out contagious disease.

Blackleg and Anthrax Vaccines have been prepared at the Health of Animals Branch, Biological Laboratory, and sold to the public at five cents per dose. A large demand for the former vaccine has been maintained, while fortunately the absence of Anthrax has not necessitated numerous applications for the vaccine in that connection.

THE MEAT INSPECTION DIVISION.

The Meat Inspection Division of this Branch is growing rapidly and carrying on its work effectively with little adverse criticism, the trade in meat and meat food products adjusting itself to the requirements of the Act.

The tremendous increase in the canning of poultry may, I think, be attributed to the protection afforded by inspection.

The staff of Inspectors has been slightly augmented to meet the needs of the service, due to additional establishments being placed under inspection and a gradual improvement in the methods of carrying on the work. The general health and conduct of the officers have been good considering the nature of the conditions under which they labour.

Our exports of meats for the year will show a decrease while our imports are very largely increased, a natural result of the growth in population and decrease in production in the older settled parts of the Dominion.

Prices for the different meat food animals have been good and under present conditions, due to a shortage of live stock, should remain so.

The very limited supply of beef cattle is to be regretted, and this will, no doubt, continue for some time. To a certain extent this condition may be due to the enormous slaughter of calves, the meat of which, while palatable, is not of the highest food value.

The work of the Branch in the supervision of establishments engaged in the canning and preserving of fruits, vegetables and milk, has increased to such an extent as to require the appointment of a number of short term inspectors who, in conjunction with our regular officers, are exceedingly busy during the fruit and vegetable season. The many improvements which may be observed in the sanitary conditions and the methods of handling the raw and prepared products amply justify the expenditure entailed.

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PUBLICATIONS BRANCH.

The Publications Branch deals with the International Agricultural Institute, to which Canada is one of the adhering countries, and with the distribution of the publications issued by the Department.

THE INTERNATIONAL AGRICULTURAL INSTITUTE.

During the year the International Agricultural Institute at Rome continued to issue its three Bulletins: 'Bulletin of Agricultural Statistics,' 'Bulletin of Agricultural Intelligence and Plant Diseases,' and 'Bulletin of Economic and Social Intelligence.' In many ways these Bulletins have been considerably improved.

The Statistical Service of the Institute showed a marked advance over the previous year. A number of countries sent in their preliminary estimates of cereal production a month earlier than before, and reports of acreage and condition were more regularly received. The Russian government has promised to conform hereafter to the Institute's plan and issue its preliminary estimate one month before harvest. At the request of the Institute the adhering Governments have extended their statistical services so as to furnish data concerning flax, sugar beet, tobacco, cotton, silk and wine, and the reports on these products form a valuable part of the Bulletin of Agricultural Statistics. Special attention has been given to official live stock statistics, and the result of live stock censuses in different countries have been published and measures for further development of this service are to be discussed at the forthcoming General Assembly. Since March, 1913, the statistics of imports and exports of cereals, visible supply and prices, published hitherto in the Bulletin of Commercial Statistics, are included in the Bulletin of Agricultural Statistics.

A new feature of the Bulletin of Agricultural Intelligence and Plant Diseases is the inclusion of original articles specially written for the Bulletin by authorities on different subjects relating to agriculture. Of these articles the following might be mentioned: 'The Recent Development of Cattle Breeding in Germany,' by Dr. Hansen; 'Mechanical Cultivation,' by Max Ringleman, Director of the Machine Trial Station in Paris; 'The Basis of an International Agreement for the Control of Plant Diseases,' by Giuseppe Cuboni, Director of the Royal Station of Plant Pathology, Rome.

During the year the Institute issued several valuable special publications. Among these are 'The International Year Book of Agricultural Statistics,' 'The International Year Book of Agricultural Legislation,' 'An Outline of European Co-operative Credit Systems,' and 'A Study of the Census Returns of the Agricultural Population, the Wages of Rural Labour, and the Currents of Emigration in the Several Countries.'

The circulation of the Canadian Bulletin 'The Publications of the International Agricultural Institute', issued monthly by the Canadian Commissioner, increased during the year through individual applications by over 2,500. This Bulletin has been issued since October, 1910, in order to give due publicity to the information con-

tained in the original Institute Bulletins of which only a limited number are received by the Canadian Office. In it are reproduced the articles in the Bulletins of Agricultural Intelligence and Economic and Social Intelligence which are deemed of interest and value to Canadian readers, summaries being made of those articles which are too long for reproduction. In this way from forty to seventy-five articles from the original Bulletins are republished in each number of the Canadian Bulletin. Among the more important of these is an article on the 'Present State of Dairy Cow Testing' giving a description of the methods employed in Milk and Butter tests in Canada, United States and several European countries, the origin and tests of the cow-testing associations and their recent development. 'The Californian Co-operative Fruit Growers' Societies' is the subject of an article in which the benefits to be derived from co-operation among farmers are clearly shown. In an article on the 'International Agricultural Institute and the Organization and Work of the Canadian Office', Mr. T. K. Doherty, the Canadian Commissioner to the Institute, gives a complete account of the work of the Canadian Office since its inception in 1909, as well as a statement of the operations in the Institute and its programme for the future. In view of the great interest in agricultural credit taken by farmers throughout the Dominion, in the February, 1913, number of the Canadian Bulletin special attention was given to Co-operative Credit. An article on Rural Banks in Germany giving a detailed account of the Raiffeisen system of Agricultural Credit was reproduced as well as a description of the Co-operative Land Credit Societies 'Landschaften' and 'Ritterschaften'. The number also contains a summary of the Report of Mr. Myron T. Herrick, United States Ambassador at Paris, on European Land and Agricultural Credit Systems together with President Taft's letter on the subject to the Governors of the States. Other important articles published during the year in the Canadian Bulletin were: 'Report on Dry-Farming', by M. E. de Miklos, Delegate for Hungary on the Permanent Committee of the Institute, and 'The Protection of Birds', by the same author. Considerable attention was given to rural economics especially as regards methods of bookkeeping for farmers, a subject exciting great interest among scientific agriculturists at the present time. Besides these were many summaries of articles and bulletins on Cultivation of Different Crops, Rural Hygiene, Agricultural Meteorology, Physics, Chemistry and Microbiology of Soil, Manures and Manuring, Agricultural Machinery and Implements, Agricultural Botany, Live Stock, Apiculture, Plant Diseases and Noxious Insects, Agricultural Co-operation and Associations, Agricultural Insurance and other subjects.

The first part of the Canadian Bulletin is devoted to agricultural statistics taken mainly from the Institute Bulletin of Agricultural Statistics. The figures which in the original Bulletin refer to hectares and quintals are converted into acres and bushels for the convenience of Canadian readers. A summary of the condition of crops as reported by the Institute is always given, and the tables of area and production reproduced.

On the date of the publication of the Bulletin of Agricultural Statistics at Rome the Institute telegraphs a summary of the more important contents of the Bulletin to the governments of the adhering countries. The data thus received is immediately sent by the Canadian Office to some 500 newspapers throughout the

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Dominion, to the agricultural departments of the provinces and to others specially interested, by means of multigraphed sheets. During the period of harvest in the northern hemisphere the statistics of production thus received are arranged in tables showing the production of the different countries in detail. Canadian readers are thus enabled to obtain the official estimates of crop production at the earliest possible date.

One of the duties of the Canadian Commissioner is to furnish the Institute with the data concerning Canada needed for its publications. About the 12th of each month the crop report for Canada received from the Census and Statistics Branch of the Department of Trade and Commerce is cabled to the Institute for publication in the 'Bulletin of Agricultural Statistics.' Articles for the 'Bulletin of Agricultural Intelligence and Plant Diseases,' and of 'Economic and Social Intelligence' have been prepared in the Canadian Office. An example of these is the analysis of the Canada Grain Act, together with an account of the reports, circumstances and conditions which led up to its passage. Among other articles sent to Rome were those on Cow Testing Associations in Canada, and Credit Banks of the Province of Quebec. A report of the Dry Farming Congress at Alberta was also furnished. Specialists outside this Department have also been invited to collaborate by communicating articles which they may deem of interest to the Institute in the prosecution of its objects and for possible publication in the Institute Bulletins.

During the year reports on Co-operation, the Manufacture and Consumption of Fertilizers, and Hail Insurance were sent to the Institute.

THE LIBRARY.

The Library of the Publications Branch was established to enable the Commissioner of the Institute for Canada to furnish information to the Institute. Secondly, it renders available to those interested in agricultural subjects the latest Bulletins and reports from the principal agricultural countries of the world.

The publications in the Library have now reached the number of 1,200 bound volumes and over 3,000 pamphlets. With the exception of some books of reference and a small number of important works on different phases of agriculture, the publications have been received in exchange for Canadian agricultural publications. One-third of the books are from the United States Department of Agriculture, the Experiment Stations and State Boards of Agriculture. About one hundred agricultural and statistical periodicals are received and kept on file. These are nearly all received in exchange for publications of this Department.

A monthly statement of additions to the library is printed in the Canadian Bulletin of the International Agricultural Institute.

Cards representing the bulletins and reports of the American Department of Agriculture are arranged in alphabetical order and are available for consultation. Catalogue cards have also been arranged for a considerable part of the rest of the library. Some progress has also been made in arranging the Library of Congress cards of universal agricultural literature.

THE DISTRIBUTION OF PUBLICATIONS.

A short time prior to the beginning of the past fiscal year this Branch was charged with the general distribution of the various publications issued by the several other Branches of the Department of Agriculture, which include the Experimental Farms, the Seed Branch, the Dairy and Cold Storage Branch, the Live Stock Branch, the Health of Animals Branch, and the Tobacco Branch. To this end the individual mailing lists were taken over and arranged according to a uniform system. These several lists which are constantly under revision have been systematically classified on stencils for mechanical addressing and on cards for reference. The several lists, which vary in size from 2,500 for the smallest to 60,875 for largest, comprise 168,292 names, which number is constantly increasing.

As a publication is issued it is immediately sent out to the list of the Branch by which it was produced. In addition it is announced to the public by means of a press notice which consists of a brief review. This is promptly mailed to about five hundred papers which have a combined circulation of considerably more than two million. These notices usually create a large demand for the publication, and along with the copy sent out in response to each request there is sent a return post card which affords the recipient an easy means of applying to have his name added to the permanent mailing list. By means of this system the lists are making a healthy and comparatively rapid growth.

In addition to the bulletins, pamphlets, circulars and reports sent out for the different *Branches*, there was mailed to a list, ranging from 6,000 to 8,500 latterly, the monthly bulletin issued by this Branch, 'The Publications of the International Agricultural Institute,' to a special list of about 250 agricultural scientists the three original monthly bulletins prepared by the International Agricultural Institute, at Rome, as well as large editions of nine pamphlets constituting evidences and papers presented before the Select Standing Committee of the House of Commons on Agriculture and Colonization and the Committee of the Senate on Agriculture and Forestry.

During the year there were sent out to the mailing lists of the respective Branches thirty-six new publications of the Department of Agriculture, four new evidences given before the Select Standing Committee of the House of Commons, five new papers read before the Committee of the Senate on Agriculture and Forestry, besides small editions of the three monthly bulletins of the International Institute at Rome comprising in all nearly one and one-half million copies. In addition there were mailed in response to personal applications some 30,000 copies of publications, including eleven new pamphlets and circulars of a special character and copies of back numbers of bulletins, reports, bulletins, pamphlets and circulars.

In order to help new settlers in the western provinces with agricultural publications the Honourable the Minister of the Interior consented that this Branch should provide Dominion Lands Agents with supplies of return post cards to be handed to prospective settlers. These announce to entrants for homesteads that helpful publications may be had by filling in and mailing the return card. Since many homesteaders have not previously farmed, or have come from countries differing from the

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Prairie Provinces in soil and climate, it is expected that this service will be of great value to them. In accordance with the estimate of the Commissioner of Dominion Lands sixty thousands of these cards have been provided for a year's supply.

MULTIGRAPHING.

Primarily for the purpose of issuing to the Press the cabled monthly world's crop reports of the International Agricultural Institute this Branch some time ago purchased a multigraph machine.

During the past year this has been found useful in issuing reviews of new publications and announcements of changes in government regulations bearing on the agricultural industry.

In addition to the International Institute cables there were sent out during the year 66 articles in the English language and 25 in the French constituting in all 100 pages of matter of which a total of 57,275 sheets were printed. These going to the agricultural press and other newspapers of the country have kept well before the public the work being carried on by the Department of Agriculture as set forth in its published reports and bulletins.

III.—PATENTS OF INVENTION.

The following tables show the transactions of the Patent Office, Department of Agriculture, from April 1, 1912, to March 31, 1913:—

Applications for Patents.	Patents and Certificates Granted.			Certificates.	Assignment of Patent.	Notices under Section 8.
	Patents.	Certificates.	Total.			
8,681	7,502	1,199	8,701	353	3,741	1,913

DETAILED STATEMENT, PATENT OFFICE FEES.

Month.	Notices.	Patents.	Assignments.	Certified Copies.	Caveats.	Sundries.	Subscriptions.	Total.
1912.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
April.....	169 75	17,883 75	683 25	233 15	195 00	1 25	58 60	17,244 75
May.....	147 00	17,108 98	635 80	237 85	135 00	16 30	34 80	18,335 73
June.....	130 00	14,864 00	563 75	318 80	180 00	29 00	22 00	16,107 55
July.....	178 00	15,498 90	697 95	285 30	178 20	6 00	27 20	16,821 55
August.....	170 00	15,444 15	691 85	258 61	140 50	14 75	22 20	16,742 06
September.....	214 40	14,785 15	532 75	262 45	150 00	5 50	21 55	15,971 80
October.....	181 10	16,248 05	714 95	366 75	165 15	62 50	38 00	17,776 50
November.....	145 00	16,859 90	719 50	285 85	160 00	12 00	64 10	18,246 35
December.....	158 50	16,213 20	616 65	198 90	156 00	8 50	44 05	17,395 80
1913.								
January.....	164 00	19,512 45	782 35	303 16	190 50	26 00	31 75	21,010 25
February.....	164 00	17,044 70	832 50	353 95	180 00	8 00	26 55	18,609 70
March.....	205 25	20,282 40	751 15	277 55	140 00	13 54	213 09	21,882 98
	2,027 00	201,745 63	8,222 45	3,402 32	1,920 35	203 34	603 93	218,125 02

The total number of Patents granted to Canadian inventors was 1,256 and were distributed among the provinces of the Dominion as follows:—

Ontario.	Quebec.	British Columbia.	Manitoba.	Alberta.	Saskatchewan.	New Brunswick.	Nova Scotia.	Prince Edward Island.	Yukon.
584	277	122	105	61	58	25	20	4	0

Patents issued to residents of Canada, with the ratio of population to each patent granted:—

Provinces.	Patents.	One to every.
British Columbia.....	122	3,217
Ontario.....	584	4,320
Manitoba.....	105	4,339
Alberta.....	61	6,142
Quebec.....	277	7,230
Saskatchewan.....	58	8,490
New Brunswick.....	25	14,075
Prince Edward Island.....	4	23,431
Nova Scotia.....	20	24,616
Yukon.....	0	

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NATIONALITY OF FOREIGN INVENTORS.

Countries.	1908.	1909.	1910.	1911.	1912.	1913.
United States of America	5,030	4,602	5,021	4,885	4,997	4,964
Great Britain	313	346	392	359	506	495
Germany	214	215	241	304	336	307
Australia	76	58	60	77	99	75
France	91	59	75	97	108	100
New Zealand	31	36	37	33	46	47
Sweden	46	40	39	51	52	64
Belgium	18	17	20	25	20	23
Austria	14	33	23	20	24	40
Italy	14	10	8	12	6	16
Switzerland	13	11	12	26	23	20
Denmark	29	8	8	5	14	15
Transvaal	6	12	12	16	10	7
Hungary	8	5	7	6	6	6
Russia	5	4	14	18	6	17
Norway	13	9	18	20	17	10
Newfoundland	4	1	2	3	1	2
Netherlands	0	4	0	0		
Mexico	4	4	11	7	10	8
Cape Colony	0	1	0	3	4	4
Cuba	3	0	1	5	1	1
Spain	0	2	1	3		
Chile	0	1	0	1		1
Finland	5	1	0	1		1
Portugal	0	1	0	0		
Roumania	0	1	0	1	1	
Grand Duchy of Luxemburg	2	1	0	0		
Algeria	1	0	0	1		
Japan	3	1	2	0	2	2
India	1	0	0	5	3	1
Natal	1	0	0	0	1	2
Nicaragua	1	0	0	1		
Brazil	1	0	0	2	1	
Turkey	1	0	0	0		
Poland	1	3	2	0		
Holland	19	0	2	11	8	7
Argentina		4	5	1	1	
Panama (Canal Zone)		2	0	0	3	
Egypt			1	1		
Southern Rhodesia			1			
Peru					3	2
Hawaii					3	3
Venezuela					2	1
Trinidad, W. I.					1	
Porto Rico					1	2
Tunis						1
Ceylon						1
Straits Settlements						1

Statement of the number of patents issued under the Act, on which the fees are paid for periods of six, twelve or eighteen years, at the option of the patentee; and of patents on which the certificates of payments of fees were attached after the issue of patents originally granted for periods of six and twelve years.

Period for which Fees were paid on First Issue.			Patents on which Certificates were attached after issue.		Re-issues.		
6 years.	12 years.	18 years.	6 years.	12 years.	6 years.	12 years.	18 years.
7,469	5	18	1,161	38	9	1	0

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COMPARATIVE STATEMENT of the transactions of the Patent Office from 1872, when foreign applications were first admitted, to 1912, inclusive.

Year.	Applica- tions for Patents.	Patents and Certificates Granted.			Caveats.	Assign- ments of Patents.	Fees received.
		Patents.	Certi- ficates.	Total.			
							\$ cts.
1872	752	671	.....	671	184	327	18,651 65
1873	1,124	1,016	10	1,026	171	547	28,889 64
1874	1,376	1,218	27	1,245	200	711	32,962 48
1875	1,418	1,266	57	1,323	194	791	33,380 82
1876	1,548	1,337	46	1,383	185	761	34,429 38
1877	1,445	1,277	75	1,352	168	841	33,656 39
1878	1,428	1,172	96	1,268	172	822	31,992 42
1879	1,358	1,137	101	1,238	203	728	30,868 88
1880	1,601	1,252	156	1,408	227	855	38,334 99
1881	1,956	1,510	222	1,732	226	907	48,083 95
1882	2,266	1,846	291	2,137	198	955	55,854 79
1883	2,611	2,178	291	2,469	242	1,052	67,625 48
1884	2,681	2,456	167	2,623	238	1,772	63,257 47
1885	2,518	2,233	214	2,447	222	1,075	62,176 23
1886	2,776	2,610	250	2,860	187	1,322	67,176 23
1887	2,874	2,596	254	2,850	219	1,335	67,940 21
1888	2,747	2,257	282	2,539	240	1,139	65,246 51
1889	3,279	2,725	356	3,081	221	1,437	78,046 72
1890	3,500	2,428	369	2,797	248	6,307	84,150 78
1891	3,233	2,343	393	2,736	215	1,231	77,723 63
1892	3,176	3,417	415	3,832	242	1,500	77,216 76
1893 (Only 10 months)	2,614	3,153	292	3,445	229	1,345	63,850 19
1894	3,291	2,756	412	3,218	301	1,445	80,682 56
1895	3,387	3,074	422	3,496	343	1,550	86,358 48
1896	3,728	3,488	413	3,901	306	1,420	93,532 52
1897	4,300	4,013	284	4,297	377	1,551	102,117 92
1898	4,200	3,611	262	3,873	363	1,657	99,351 95
1899	3,395	3,151	412	3,563	311	1,467	107,261 56
1900	4,628	4,522	482	5,004	283	1,914	113,852 46
1901	4,817	4,766	551	5,317	302	2,323	120,064 37
1902	5,301	4,391	510	4,901	317	2,339	129,896 82
1903	5,912	5,673	432	6,105	328	2,384	141,363 81
1904	6,061	6,091	517	6,607	303	2,472	145,896 10
1905	6,355	6,111	536	6,647	300	2,576	152,085 45
1906 (Only 6 months)	2,857	2,378	271	2,649	137	1,232	69,700 46
1907	7,077	6,121	634	6,755	285	3,003	169,548 78
1908	7,406	6,774	744	7,518	317	2,900	178,482 49
1909	7,239	6,395	827	7,222	319	3,001	176,692 05
1910	7,789	7,223	1,010	8,233	448	3,147	194,571 54
1911	8,637	7,249	1,002	8,251	406	3,356	200,164 41
1912	8,293	7,399	1,113	8,512	348	3,725	207,762 77
1913	8,681	7,502	1,199	8,701	353	3,741	218,125 02

There has been a marked increase in all the transactions in this branch of my department during the past year, and it may be remarked that there appears to be a growing activity in inventions and business arising out of them in the prairie provinces, as well as in the province bordering on the Pacific Coast. The correspondence and inquiries from these provinces have increased enormously during the past year, foreshadowing a still larger increase in the issue of patents and other transactions under the law in the next fiscal year.

The total revenue of the Patent Office for the year ending March 31, 1913, was \$218,125.02.

The number of new applications for patents presented during the year was 8,681, an increase over the preceding year of 388.

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The total number of reports issued by the examiners during the year was 11,551, an increase of 517, and 10 patents were surrendered and re-issued.

Out of the total number of patents granted by this office during the year there were 4,964 issued to inventors, or assignees resident in the United States, being 63 per cent. of the whole issue.

This branch of my department continues to receive the official reports of patent from Great Britain, Australia, New Zealand, United States, Mexico, Portugal, Italy, Belgium, France and Japan, in addition to other periodicals of a scientific nature, in exchange for the Canadian Patent Office Record.

There were 1907 patents brought under the conditions of the Compulsory License Clause, Section 44, of the Patent Act, an increase of 113 over the preceding year.

The number of notices under Section 5 of the Patent Act was 1,013.

The present fiscal year also shows an increase in the Patent Office revenue. The total amount of fees received was \$218,125.02, being the largest receipts for the same period of time in the history of this branch of the department, the increase over the preceding year amounting to \$10,362.25.

IV.—COPYRIGHTS, TRADE MARKS, INDUSTRIAL DESIGNS AND TIMBER MARKS.

STATEMENT of fees received by the Copyright and Trade Mark Branch from April 1, 1912, to March 31, 1913.

Months.	Trade Marks.	Copyrights	Designs	Timber Marks.	Assignments.	Copies.	Total.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1912.							
April	3,825 00	153 50	33 00		44 00	24 85	4,080 25
May	3,891 75	178 00	50 00	2 00	72 00	24 50	4,198 25
June	3,954 40	145 00	40 00		191 00	16 75	4,297 15
July	3,937 00	116 65	60 00		35 00	22 75	4,171 40
August	2,633 00	130 73	106 00	4 00	433 50	31 25	3,338 48
September	3,645 45	116 00	63 00	2 00	33 00	26 25	3,915 40
October	3,874 58	197 00	80 15	4 00	35 00	25 50	4,216 23
November	4,891 40	233 20	55 00	4 00	34 00	27 15	5,244 75
December	3,689 70	258 60	111 00	10 00	89 00	22 35	4,180 65
1913.							
January	3,262 20	160 25	64 00		32 00	57 60	3,516 05
February	4,797 50	146 50	75 00	4 00	48 00	50 75	5,031 75
March	4,611 35	204 00	80 00		43 00	35 50	4,982 85
Refunds	46,773 93	2,049 43	826 15	30 00	999 50	364 20	51,043 21
	7,889 50	25 40	57 00		8 00	1 75	7,981 65
	38,884 43	2,024 03	769 15	30 00	991 50	362 45	43,061 46

The particulars of the registrations made by the Copyright and Trade Mark Branch of the Department of Agriculture during the year ended 31st March, 1913, are as follows:—

I. COPYRIGHTS:—

Full Copyrights without Certificates	1,376
Full Copyrights with Certificates	190
Temporary Copyrights without Certificates	91
Temporary Copyrights with Certificates	5
Interim Copyrights without Certificates	88
Interim Copyrights with Certificates	10
Assignments of Copyrights	23
	—1783

II. TRADE MARKS	1,315
Renewals of Specific Trade Marks	70
Assignments of Trade Marks	511

III. INDUSTRIAL DESIGNS	123
Renewals	12
Assignments	23

IV. TIMBER MARKS	15
Assignments	2

Total registrations 3,859

The following table shows a comparative statement of the business of this branch from 1903 to 1912, inclusive:—

Year.	Letters Received.	Letters Sent.	Copyrights Registered.	Certificates of Copyrights.	Trade Marks Registered.	Industrial Designs Registered.	Timber Marks Registered.	Assignments Registered.	Fees Received.
1903	2,687	3,211	900	176	557	88	23	272	18,086 25
1904	2,858	3,293	1,106	228	621	107	25	118	20,647 30
1905	3,367	3,902	1,130	189	661	139	22	154	23,706 75
1906	5,340	5,193	1,228	169	1,119	125	47	282	33,107 10
1907	4,475	4,353	1,140	175	848	182	33	136	30,073 20
1908	6,647	4,980	1,416	170	892	162	44	343	37,514 00
1909	6,320	5,750	1,535	171	1,059	143	108	174	38,071 31
1910	6,411	7,688	1,699	206	1,021	118	39	286	42,153 76
1911	7,027	7,091	1,593	213	1,212	149	39	230	46,327 86
1912	9,435	9,322	1,760	205	1,315	128	15	559	51,043 21

V.—PUBLIC HEALTH AND QUARANTINE.

Asiatic Cholera.—During the past year *Asiatic Cholera* has been reported in the following countries:—

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Arabia, Austria-Hungary, Bulgaria, China, Ceylon, Dutch East Indies, India, Indo-China, Italy, Japan, Malta, Montenegro, Persia, Philippine Islands, Roumania, Russia, Servia, Siam, Straits Settlements, Tripoli, Tunis, Turkey in Asia, Turkey in Europe and Zanzibar.

The epidemic of this disease in Italy has been brought under control since my last report. No cases were reported from that country during the past summer except a limited number at Cagliari, Sardinia. The most menacing situation at present is in the war zone in Turkey. Official information concerning the cholera there is meagre or absent; but the belated and imperfect press reports indicate that cases are occurring in large numbers, particularly among the Turkish and Bulgarian troops in the field and fortifications, and also among the refugees in the city of Constantinople.

Bubonic Plague.—This disease has prevailed during the year in the following countries: Afghanistan, Algeria, Arabia, Argentina, Austria-Hungary, Azores, Brazil, British East Africa, Canary Islands, Chili, China, Cuba, Dutch East Indies, Ecuador, Egypt, Germany, Great Britain, Hawaii, India, Indo-China, Japan, Java, Mauritius, Morocco, New Caledonia, Persia, Peru, Philippine Islands, Porto Rico, Russia, Siam, South Africa, Straits Settlements, Turkey in Asia, Venezuela, West Indies.

There was a slight recurrence of Plague in North China in June, several cases of the pneumonic form having been reported during that month. But there has not been this year any repetition of the epidemic outbreak which was so marked last year in both Manchuria and Mongolia. The disease has come nearer to us than usual inasmuch as it has been present at Trinidad, Porto Rico and Havana. All three of these places, however, have been since declared free from Plague in accordance with the International Sanitary Convention.

Smallpox.—This disease has again had an almost world-wide appearance during the year. Two steamships brought cases of this disease to my St. Lawrence Quarantine Station, and three vessels brought cases of it to my Station at William Head, B.C. The last vessel with this disease at the last mentioned Quarantine arrived there yesterday. With regard to the other vessels, the disease was entirely stamped out at my Quarantine Stations.

At my Halifax Station a steamer of the Marine Department was disinfected at the request of the Department. She had brought coastwise from St. John, N.B., a case of smallpox to Halifax.

Leprosy.—There are at present in my Lazaretto at Tracadie, N.B., twenty-one patients, eleven males and ten females. Seventeen of these are of French-Canadian, two of English, one of Icelandic, and one of Russian origin.

At my Leper Lazaretto at Darcy Island, B.C., four lepers were received. One of them died there. The other three were deported to China, under the Immigration Regulations.

Beri-Beri.—Experiments and observations during the year seem to confirm the previously formed opinion that this disease is due in many instances to the use of polished rice.

Enteric Fever (Typhoid).—Protective vaccination against Enteric Fever has been steadily advancing in favour among medical men since its first trial on a large scale by the British Army in the Boer war. It has also been used with

satisfactory results in the French, Russian and Japanese armies, and is said to be completely harmless. The operation is similar to that against smallpox, and produces even less inconvenience.

Tuberculosis.—The most interesting occurrence in connection with this disease has been the claim of Dr. F. F. Friedman, of Berlin, that he has discovered a turtle serum vaccine for the prevention and cure of this disease. The President of the Canadian Association for the Prevention of Tuberculosis invited Dr. Friedmann to come to Ottawa and give an address before the annual meeting of the Association, which he did. He also treated a certain number of patients here. This Association is, of course, not under my Department, but receives a grant from the Federal Government, so that the results of his action in this matter are of a certain amount of interest to us. The question of the value of Dr. Friedmann's treatment is, of course, still *sub judice*, as the results cannot be looked for for some months to come.

Circular Letters were issued from time to time to my different officers, calling their special attention to various matters during the year: On June 9, pneumonic plague in North China; October 2, plague at the Azores; October 7, plague on the Tyne; December 17, routine disinfection from Hong Kong suspended; January 3, 1913, plague rats in Liverpool; January 29, cholera in Constantinople; and March 1, plague in Canary Islands.

Preventive Medicine.—The increasing appreciation of Public Health work is shown by the statement in the Journal of the American Medical Association that the United States spent last year \$2,420,614.95 on strictly public health service, and that the Port Physician of the Port of New York is this year asking for appropriations from his State of \$2,000,000 for the reorganization of the quarantine service of the port, and for an addition of \$35,000 to the pay-roll.

Carriers, human and insect.—Observations along these lines have been continued during the year, and have confirmed previous conclusions, with the addition of the recently reported one, that one of the infectious diseases may be carried by the common biting stable fly.

Pollution of Public Water Supplies.—This matter is deservedly gaining more and more attention every year. International, national, provincial and municipal interest is increasingly shewn in this all-important matter.

Fifteenth International Congress on Hygiene.—This Congress was held in Washington, D.C., in September last. Representatives of twenty-eight nations were in attendance, and the delegates were three thousand in number. President Taft gave an address of welcome at the opening meeting, and in the course of his remarks urged the establishment of a National Bureau of Health. My Director-General of Public Health was sent as a delegate to represent the Government of Canada, and to convey its greetings to the Congress. The compliment was paid to Canada of his being appointed an Honorary President of the Congress.

New Quarantine Station.—In May last I advanced the Port of Digby, N.S., to the position of a regular quarantine station, for the inspection, etc., of vessels entering the Annapolis Basin. Dr. E. DuVernet was appointed as Quarantine Officer in charge.

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New Appointments.—At Grosse Isle in the St. Lawrence I appointed an additional medical assistant, Dr. J. V. Côté, to act as an additional inspector of incoming vessels. Owing to the ever-increasing immigration from Europe, and the occasional arrival at one time of more than one vessel heavily laden with passengers, I judged it necessary to make this additional appointment so as to insure a prompt inspection of incoming vessels.

Crews on boats.—This year the officers and crews of the Quarantine steamers at Grosse Isle had to live on board instead of in houses at various distances from the wharf. This has assisted to insure the most prompt inspection of incoming vessels. The extension of this rule to the Quarantine steamer at other ports is under my consideration.

Mail steamers.—Last year my Quarantine Officer at Rimouski, instead of merely inspecting during the time occupied by the transfer of the mail to the mail tender, came up to Quebec on each mail steamer. This gives him full time for his inspection, and much lessens the delay at Grosse Isle when there is quarantinable disease on board. If, as it is anticipated, there are to be more than one mail steamer a week during the coming season, the increasing of the number of inspectors will require my consideration.

Changes in staff.—During this last year Dr. Lepage has been appointed in place of Dr. Belisle at Rimouski, Que.; Dr. MacLeod in place of Dr. Rindress at North Sydney, C.B.; and Dr. Morrison in place of Dr. O'Neil at Louisburg, N.S.

Protection against rats.—To be ready for the ever possible extension of the plague rats, I have caused two portable sulphur dioxide fumigating appliances to be provided, one to be stationed at Victoria, B.C., and one at Vancouver, B.C. These can be drawn to the end of the piers for the deratization, etc., of vessels it is desired to so treat.

Breasting out, etc., of vessels.—Regulations for the prevention of the possibility of Bubonic Plague getting into this country, by means of plague rats landing from vessels sailing from infected countries, were issued by me in August last, to apply to the various ports of Canada on both oceans. Such regulations had already been in force for some time on the Pacific coast. I was advised by the Department of Justice that as the Department of Marine has charge of harbours, general orders affecting vessels after they have passed quarantine and come into the various harbours, would more naturally fall within the jurisdiction of that Department. Moreover, the regulations in question could be enforced by the harbour masters and other officials of the Marine Department, without such increased expense as would be involved if my Department had to appoint special officers in the various harbours for this purpose. At my request the Department of Marine accepted this obligation, with the arrangement that I should notify them from time to time against which port or ports I advised that it should be enforced. In accordance with this agreement I notified, through my officers, the Department of Marine on the 3rd of January of the finding of plague infected rats at Liverpool, England, and on the following day instructions were issued by that Department to their harbour masters on the Atlantic seaboard.

These Regulations were as follows:—

1. It shall be unlawful for any vessel coming from any port where Bubonic Plague is present, and entering any port of Canada, to be docked or moored at a less distance from any wharf than six feet.

2. It shall be unlawful for any vessel coming from any port where Bubonic Plague is present, and entering any port in Canada, to be secured or made fast to any wharf by any hawser or hawsers on which there is not placed a metal rat guard or funnel at least three feet in diameter and at least three feet from such wharf.

3. It shall be unlawful for any vessel coming from any port where Bubonic Plague is present, and entering any port in Canada, to be connected with any wharf by a gangway which is not guarded by some person there for the purpose of preventing rats from leaving such vessel by such gangway, and all gangways shall be lifted when not in use.

The whole respectfully submitted.

MARTIN BURRELL.

Minister of Agriculture.

PUBLIC HEALTH.

APPENDIX No. 1.

REPORT OF THE DIRECTOR-GENERAL OF PUBLIC HEALTH

(F. MONTIZAMBELLI, L.S.O., M.D., Edin., F.R.S.C. (Ed.), D.C.L.)

March 31, 1913.

SIR,—I have the honour to submit this my report as Director-General of Public Health for the year ending this day.

Asiatic cholera.—Since my last annual report this disease has been reported in the following countries: Arabia, Austria-Hungary, Bulgaria, China, Ceylon, Dutch East Indies, India, Indo-China, Italy, Japan, Malta, Montenegro, Persia, Philippine Islands, Roumania, Russia, Servia, Siam, Straits Settlements, Tripoli, Tunis, Turkey in Asia, Turkey in Europe, and Zanzibar.

The epidemic of this disease in Italy has been brought under control since my last report. No cases were reported from that country during the past summer, except a limited number at Cagliari, Sardinia.

At present the most menacing situation perhaps is the war-zone in Turkey. Official information concerning the cholera is meagre or absent; but the belated and imperfect press reports indicate that cases are occurring in large numbers, particularly among the Turkish and Bulgarian troops in the field and fortifications near Constantinople, and also among the refugees in the city of Constantinople. Some newspaper reports give the number of cases occurring daily as up in the hundreds or even thousands. It is also reported that the troops of the allies contain many victims of the disease. On account of poorly-organized medical and sanitary forces, poor equipment, lack of food supplies, etc., the epidemic may assume tremendous proportions. On account of poor communication and probable suppression of news, the exact conditions cannot be stated.

This disease has been present in many places in Japan, but no large outbreaks have occurred, and public water supplies apparently are not infected. Of interest as showing one of the ways in which this disease is spread is the reported finding of nine cholera bacillus carriers amongst contacts examined in Japan. The totals given for Japan during 1912 were: Cases, 2,722; deaths, 1,678; exclusive of Formosa, in which there were 333 cases, with 256 deaths.

Bubonic plague.—This disease has prevailed during the year in the following countries: Afghanistan, Algeria, Arabia, Argentina, Austria-Hungary, Azores, Brazil, British East Africa, Canary Islands, Chili, China, Cuba, Dutch East Indies, Ecuador, Egypt, Germany, Great Britain, India, Hawaii, Indo-China, Japan, Java, Mauritius, Morocco, New Caledonia, Persia, Peru, Philippine Islands, Porto Rico, Russia, Siam, South Africa, Straits Settlements, Turkey in Asia, Venezuela, West Indies.

Some idea of the ravages committed by this disease in the past may be gathered from the following table published by Dr. Isadore Dyer, of New Orleans:—

1334. Black Death destroyed over 25,000,000 persons in Europe.
 1348. More than 42,000,000 people in the world died of plague.
 The disease was endemic in Europe from the 14th to the 19th Century.
 1720. From Syria to Marseilles the plague killed 80,000.
 1803. Plague in Constantinople; 150,000 died.
 1810. Plague in Constantinople; 110,000 died.
 Between 1783 and 1844, 21 epidemics of plague occurred in India.
 1894. Plague began in Canton—spreading to Hong Kong; 192,000 lives lost.
 1904. Over a million people died of plague in India, which is now the plague centre of the world.

Since 1896 plague has travelled from Bombay to Australia, Hawaii and Japan—up the western coast of South America and to San Francisco.

There was a slight recurrence of plague in North China in June, several cases of the pneumonic form having been reported on the 8th of that month. But there has not been this year any repetition of the epidemic outbreak which was so marked last year in both Manchuria and Mongolia.

The official report of the Medical Officer of Health for the colony, under date the 24th of August, gives the number of cases to that date as 1,842, and the deaths 1,722. During the week ended February 1, 1913, one fatal case was reported. And three deaths, all Chinese, occurred on the 8th instant.

In Hong-Kong this disease appeared, as has been usual for the last ten years, with the beginning of the summer, and continued until the autumn. The situation was aggravated at first by prolonged drought. Energetic cleansing measures were adopted, the military assisting the local authorities.

A very interesting account of the behaviour of plague germs in marmots during hibernation is given by Drs. Dujardin-Beaumetz and E. Mosny in a note presented to a meeting of the Academy of Sciences of Paris on July 22, 1912. They confirm the belief that there is an ancient and important permanent focus of plague in the Trans-baikal regions and Mongolia. It has been known for some time now that trappers and others who handle marmots or tarbagans (*Arctomys bobac*) in these regions for their fur have been liable to acquire a disease locally known as the *Maladie des tarbagans*, and now Tcherkassoff has demonstrated that this is really plague. If the marmots keep the disease going in the same way as rats and ground squirrels do in other parts of the world, there must be some means of bridging over the Arctic winter. The authors, therefore, tried some experiments on hibernating marmots to see how far they were susceptible to the plague bacilli. They found that the evolution of the germ in such animals was delayed, one of them surviving, for example, for as much as four months under the unfavourable conditions for hibernation which existed in the laboratory. A similar state of affairs has also been noted with regard to tuberculosis and trypanosomiasis. Blanchard and Blatin observed that certain animals very sensible in the waking state to the different pathogenic trypanosomes are, on the contrary, during hibernation absolutely immune. Dujardin-Beaumetz and Mosny think that this persistence of the virus in the marmot through its hibernating period explains the survival of the plague in the endemic foci in Mongolia and the regions of Astrakan.

Porto Rico.—A summary of the plague situation to the end of 1912, including human and rodent cases reported or discovered, was as follows: Human cases, 56; deaths, 36; rats examined, 32,650; rats found infected, 66. The last case of plague in man occurred in San Juan, September 12; the last plague-infected rat was found at Arecibo, October 30, and one at Caguas, December 21, 1912.

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Cuba.—The existence of plague in Habana was first confirmed on July 6, in the case of a Spaniard who had taken sick on June 30. Since that date, two more cases developed, one confirmed July 9, and the other on July 22. The last two cases resulted in death. There were therefore three cases with two deaths known to have occurred between July 6 and September 1, 1912. An investigation made by the Cuban sanitary authorities showed that there had occurred one if not two very suspicious cases, also resulting in death, prior to the first case officially confirmed. All the cases were in persons of one neighbourhood, the first, however, three blocks distant from the last two.

The Cuban health authorities had suspected the possible existence of plague prior to the occurrence of human cases. The official report of the presence of plague in Porto Rico was received by them on June 29, and on the same day an anonymous communication was received from a resident to the effect that an unusual mortality among rats had occurred in an area covering three blocks which were within a square of the Caballeria wharfs. An investigation of this report elicited the information that the mortality among rats had been noticed during the preceding two weeks, and that the unusual mortality had ceased by the time the information reached the sanitary department. Several dead rats were found, but on necropsy were negative as to plague.

The presence of infection can therefore be reasonably dated as early as the first week in June. Between June 24 and July 8, 291 rats were caught within the infected district, and none was found to show plague infection. From July 8 to September 1, 1912, 8,166 rats were necropsied, of which none proved to have plague. Since July 8 a systematic campaign for extermination of rats by a special corps of men, in a zone including the old city of Habana, which allowed a broad margin over the true infected squares, has been in progress. The campaign, of course, was extended to include the wharfs, also Casa Blanca and Regla, which are towns across the bay. The quarantine service also took measures for eradicating rats from lighters and coastwise vessels laying alongside of wharfs.

The campaign, briefly stated, included inspection of houses and the cleaning up in houses of trash and rubbish, disinfection of infected houses, rat proofing of buildings, regulations for the proper storage of foodstuffs, proper disposal of garbage in tight metal containers, as well as the trapping and placing of poisons for rats.

The rapid control of the infection may be attributed to the early discovery and report of the presence of infection, and the active measures taken by the sanitary Department in dealing with the known infected area, as already outlined. Other factors contributing to the favourable campaign are that the buildings in Habana are to a great extent rat-proof in structure; also that old sewers where rats usually find refuge did not extend beyond the squares where infection was found.

At the end of the month of August, Cuba was declared free from plague in accordance with the International Sanitary Convention, 1905.

Trinidad.—There were 11 cases of plague with 7 deaths in this island between April 1 and June 13, 1912.

Azores.—Three cases, with 2 deaths, were reported on October 2.

Canary Islands.—Five deaths at Tenerife, February 27, 1913.

River Tyne.—The Local Government Board reported that an imported case of human plague occurred on board a vessel in the river Tyne Port Sanitary District. The patient was an apprentice on board the *S.S. Bellbird*, which arrived in the river Tyne on September 10.

Liverpool.—A plague-infected rat was found, January 13.

California.—During the week ending September 21, two plague-infected ground squirrels were found in Contra Costa county.

Hawaii.—The last case of human plague occurred December 16. The last plague-infected rats was found December 28.

Java.—The United States Consul at Batavia has reported to his Government that during the year 1912 there were reported in the Residency of Malang 1,477 cases of plague, with 1,406 deaths. Of this number 743 cases, with 713 deaths, were reported during the last quarter of the year.

Philippine Islands.—During 1912 59 cases were reported, of which 53 died. This year two fatal cases were reported up to the 5th of last month.

During the month of December, in connection with the plague suppressive measures, a very interesting experiment was carried out. On December 17, 1912, a case of human plague occurred at No. 4 Calle Baraca. As soon as the case was removed, and before disinfection, two guinea-pigs, free from fleas, were placed in a wire cage and the cage then placed upon the floor near the place where the patient had slept. On December 21 both guinea-pigs died of typical plague, the diagnosis being bacteriologically confirmed. A similar experiment was carried out in a house on Calle Cabildo, and one on Calle San Fernando, where cases of plague had occurred, but in which immediate disinfection had taken place. In neither of these places did the guinea-pigs contract plague. This experiment would seem to indicate that the disinfecting and insecticide measures which are carried out by the Bureau of Health are effective.

Russia.—Plague continues present in the Astrakan Government. There have been but few cases, however, at any one time, and the total from July 17 to September 17 was 53 cases. At Kherson a plague-infected rat was found on the steamship *Queensmore*, which had arrived from Odessa. The finding of plague-infected rats on vessels in this way is not an uncommon occurrence. It illustrates the manner in which the disease is spread from country to country and from continent to continent by vessels, in the absence of human cases and without there being anything to indicate the presence of the infection on the vessel.

A report from St. Petersburg, dated November 29, states that the commission for the prevention of plague announced October 29 that the northwestern part of Afghanistan was infected with plague and that the frontier between Persia and Afghanistan, from Mean to Meruchak, would be closed.

Shanghai.—The last case of plague at Shanghai was reported November 18, making a total of 16 cases with nine known deaths since the appearance of the disease in November. The cases have all occurred among Chinese, and the area of distribution has remained unchanged. The disease has been evenly distributed as regards sex. Nothing definite is known regarding conditions in the Chinese territory surrounding the international settlement.

India.—Plague has continued to prevail in India. Some idea of its ravages may be gathered from the following published figures: In the Provinces, October 27 to December 28, 25,212 cases, 19,863 deaths; December 29 to February 1, cases, 21,707, deaths, 17,705.

Smallpox.—This disease has again had an almost world-wide appearance during the year. Two steamships brought cases of this disease to your St. Lawrence Quarantine Station, and two further cases occurred in quarantine amongst those landed for observation. These cases would, of course, have developed inland had these persons not been held at quarantine. As it was, the disease in the case of both steamships was stamped out at the Quarantine Station. Three vessels reported this disease at your William Head Station, near Victoria, B.C. The last one arrived there yesterday with a saloon passenger and also one of the Chinese steerage passengers ill with smallpox. They had both come on board at Hong-Kong, so that presumably

In the course of a recent address before the Medical Society of King's College Hospital, London, Mr. Stephen Paget, F.R.C.S., spoke as follows:—

Another subject on which we must speak with authority is vaccination. Let alone the sound ethical argument, that a man must not leave undone what is good for the general safety of the community; our authority rests not on ethics but on facts. Concede to the anti-vaccinationist that in times happily past it is unhappily true that a few cases of syphilis did occur from arm-to-arm vaccination; they were not one in fifty thousand—still, they did occur. Assure him that neither syphilis nor tubercle can be transmitted in glycerinated calf-lymph. Then arm yourselves with half a dozen authoritative facts. Get these facts in a handy form from Dr. Bond, of Gloucester, who is the Honorary Secretary of the Jenner Society; get them now, before you forget; and keep them by you, till you want them. Have in your minds the history of the Gloucester epidemic of 1895-96; how, in the Gloucester Cemetery, are the bodies of 279 unvaccinated children who died in that epidemic, and only one vaccinated child. Have in your minds, also, the complete immunity of well-vaccinated doctors and nurses attending cases of the disease. But do not take your facts from this country alone; for here in England we have strict sanitary laws, and vigilant medical officers of health; besides, in England there is not enough smallpox left for an appeal to overwhelming statistics. Therefore, take your facts from virgin soil; take them rather from the East than from the West. Here, for instance, is a good weapon, lately forged against the enemies of vaccination. In May of this year the doctors in Philadelphia gave a banquet to the President of the United States; and after dinner he made them a speech, saying what great things they had accomplished in Havana, in Panama, and elsewhere, against yellow fever, malaria, dysentery, typhoid, and other scourging diseases; and he went on to speak of America's latest possession, the Philippine Islands. And these are his words: 'By a whole-vaccination of all of the inhabitants of the Philippines, carried out carefully and rigorously, we have practically stamped out smallpox of all kinds in the islands, in which the black smallpox of the most virulent type flourished before our coming.' Surely, these words of the President of the United States are more worth having than a whole shelf of anti-vaccination tracts. Or look at the vast accumulated experience of India: there is no more overwhelming proof to be desired of the innumerable hosts of men, women and children safeguarded by vaccination from the horrors of smallpox.

Leprosy.—There are at present in your Lazaretto at Tracadie, N.B., twenty-one patients, eleven males and ten females. Seventeen of these are of French-Canadian, two of English, one of Icelandic, and one of Russian origin.

No deaths, and no admissions occurred during the year. One man was so restored to health that he was discharged in November last. He and another patient similarly discharged a year ago, have been found upon the periodical visits to them of the medical officer of the Lazaretto to remain free of the disease. They had both been treated with Nastin, Chaulmoogra oil and strychnine. Whether they may be claimed as cures, or whether they are cases of what sometimes occurs, limitation of, or the production of auto-immunity against the disease, it will take more cases to determine.

Your Leper Lazaretto at Darcy Island, B.C., was used during this year for accommodation of four Chinese lepers while awaiting deportation under the Immigration Regulations. The death of one of these men occurred at Darcy Island, the other three cases were deported to China. They were given the address of the Leper Mission Hospital at Canton, and given money enough to pay for their stay there for some months.

The following notes on leprosy in Hawaii are from the pen of George W. McCoy, Surgeon, United States Public Health Service:—

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There are few subjects of a public health nature about which more general misinformation exists than that of the care of lepers in Hawaii. For example, the impression is very general that the lepers in Hawaii are kept isolated on a barren, desolate island far out in the ocean, and that the place is patrolled by armed guards; indeed, so general is the understanding that guards are required that the local officials receive several letters each month from persons in the United States and elsewhere making inquiries as to vacancies in the force of guards at the Molekai leper settlement.

The facts are that the leper settlement occupies a small peninsula of nine square miles jutting out from the northern side of the island of Molekai and forming not more than one-fortieth of the whole area of the island—an island that is excelled by few in beautiful scenery and natural attractiveness. There are no guards, armed or otherwise, and none are needed, as the majority of the lepers are well satisfied to remain in the settlement, where ample provision is made for all physical needs, and the necessity for labour does not exist. Any who might escape would be apprehended and returned by the police authorities on the island. A remarkable fact in this connection is that when, as occasionally happens, a leper recovers and is authorized to leave the settlement, a request to be permitted to remain is frequently made.

The history of leprosy in the Hawaiian Islands goes back only about 60 years, at which time it seems probable that it was introduced by Chinese immigrants. For this reason the disease is known among the natives as *Ma' paku* (Chinese disease). The first official notice of leprosy was taken in 1864, when the board of health took measures to isolate those who were afflicted. Since that time the policy of segregation has been carried on with varying degrees of vigor. Probably on the whole the various laws for dealing with those afflicted with this malady have been enforced in about the same degree as sanitary laws are enforced on the mainland.

At the present time there are about 700 known lepers in the islands. About 600 of these are at the leper settlement on Molekai and 100 at the isolation hospital at Honolulu. The number who are at large must be considerable, as every year many are collected who are in such an advanced stage of the disease that it is impossible to believe that they could have developed in one year the lesions that are found when they are brought in for examination.

The total number of lepers is much below what it was a few years ago. The decrease is largely brought about by the fact that the native Hawaiians, the race in which the disease is most prevalent, are rapidly becoming reduced in number, there being now only about 36,000 among a total population of 192,000. About 2 per cent of the Hawaiians have leprosy.

Rabinowitch has recently claimed to have made a somewhat startling discovery in regard to the bacteriology of leprosy which appears to show that our modern knowledge of the heredity of the disease may require revision. The author studied more especially the blood of miscellaneous lepers and fetuses, making use of Uhlenhuth's antiformin method. The finds in patient's blood were not constant and it was necessary to make repeated examinations as a rule. Positive results were obtained in six lepers and one fetus. These appear to show that the bacilli may pass from the maternal blood directly into the fetal circulation, and that it is possible for the child to inherit the disease, although as in the case of tuberculosis this mode of transmission may be rare.

The evidence in favour of regarding goats as a source of leprosy in man has lately been collected by Dr. P. Engelbreth, who holds that leprosy is not transmitted from man to man. The strict isolation of lepers in ancient days and in the Middle Ages, he asserts, did not cause an appreciable reduction of the disease. It spread rapidly, and, though isolation was maintained with equal strictness in England,

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Central and Southern Europe, the disease disappeared only in the two former areas. Further, it does not increase in such countries as Egypt, where isolation is not enforced, while it appears in places where it has previously been unknown. Out of 512 marriages, of which records were obtained, leprosy subsequently developed in the healthy mate of a leper in 17 cases only. The presumptive evidence of the existence of an intermediate host is therefore strong, and for the following reasons Dr. Engelbreth suspects the goat of acting this part. Leprosy is a disease of mountainous countries where the goat is bred. In ancient times Egypt, Arabia, Asia Minor, and India were centres of leprosy and goat breeding. Both goats and leprosy were imported from Asia Minor into Greece, whence they were simultaneously transmitted to Italy and Spain. In the time of Charlemagne, goats were far more numerous than cattle and sheep; but in the sixteenth and seventeenth centuries, goats were largely ousted by sheep, whose wool rose in value. As goats became scarce, leprosy began to disappear. This coincidence was, he says, most striking in Denmark, where, about the year 1400, flocks of 50 to 200 goats were kept on every farm, and where there were twenty leper hospitals. Owing to their ravages on the woods goats were expelled in 1473 from Fyen by Christian I. In 1541 a war of extermination was waged against them throughout the country, and fourteen years later, Christian III, was able to abolish all the leper hospitals, and Dr. Engelbreth estimates that fourteen years was the average term of a leper's life. Norway, however, has kept both her goats and her lepers, and in 1848 there were over 2 000 lepers and about 500,000 goats. Now, the tale of goats has been halved, and that of the lepers has been reduced to 200. All the countries in which leprosy still exists are also goat-breeding countries; and in America, where leprosy was unknown before Columbus, the distribution of leprosy corresponds with the prevalence of goats. The parts colonized by the Spaniards, the Portuguese and negroes have both goats and lepers; while the northern states, which were colonized by the English, possess neither. In a paper published by Hertha in 1912, two forms of tuberculous disease in the goat have been described. The one is identical with bovine tuberculosis; the other is totally different, and is characterized by greyish-yellow, firm, but not caseous, nodules in the internal organs. These nodules closely resemble those found in the internal organs of lepers. Whether the infection is carried from goat to man by the finger-nails of the person who tends the infected goat, or by the milk, Dr. Engelbreth does not pretend to decide; but he thinks that much may depend on the extent of the disease in the goat, and on the opportunities for contact with man. He suggests that lepers may again transmit their disease to goats, and, if this be so, the isolation of the former may yet be of use. But he attaches more importance to a campaign against infected goats by diagnostic injections of tuberculin, which causes a reaction in lepers as well as in the tuberculous. He further suggests that a tuberculin prepared from infected goats should be given to the surviving lepers, whose numbers he computes at 300,000, as he believes that in this way a speedy extinction of leprosy would be brought about.

Upon reading this article in the *British Medical Journal* of 1st February last, I drew the attention of Dr. Langis, your Medical Superintendent at the Tracadie Lazaretto to this question, and asked him to report on this matter, as far as those sections of New Brunswick are concerned which furnish, and have for so long furnished, from time to time our leper patients for the Lazaretto; and to let me know whether there is any reason, in his judgment, to think that this observer is correct as far as New Brunswick is concerned. Dr. Langis has replied as follows: 'As far as these sections of New Brunswick are concerned which furnish from time to time our patients for the Lazaretto, I have no hesitation in saying that the goat theory as a source of leprosy is not tenable; for there are no goats to be seen here, and never have been.'

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Dr. Chrichton Wellman, of New Orleans, has this year published accounts of some of his experiments in the treatment of leprosy by salvarsan. His conclusions are:

1. In cases where the patient is not too weakened from the disease, salvarsan may be administered without harm.
2. Some improvement may be expected, especially in early cases.
3. We have no evidence that such effect of the drug is in any way specific or permanent.
4. 'Arsenic has long been employed in leprosy,' to quote from our preliminary note on this subject, 'and we have no evidence that salvarsan is superior in its action to the other forms of arsenic which have been used by previous observers.'

Beriberi.—In the December, 1912, number of the *Journal of Hygiene*, E. A. Cooper, B.Sc., from the Lister Institute of Preventive Medicine, writes in part as follows:

The historical aspect of beriberi has recently been so exhaustively dealt with by Schoumann (1910), Simpson and Edie (1911), and Fink (1912), that it is only necessary to consider here in detail the previous investigations of the protective and curative effects of various foodstuffs and their extracts towards this disease and the analogous polyneuritis of birds.

The evidence obtained by Eikman (1897) and Braddon conclusively proved that beriberi occurred amongst those races that used a highly polished (steam-milled) rice as their staple diet, but not amongst those peoples whose diet consisted of rice decorticated by hand or parboiled rice.

Fletcher (1907) by the application of this discovery found that beriberi disappeared from amongst the inmates of an asylum subsequently to the replacement of polished rice by whole rice as the staple diet.

Again we read in the *Journal of the American Medical Association*, Jan. 25, 1913: 'Gouzien has been studying the records in regard to beriberi in the penitentiary at Hanoi in French China from 1906 to 1910. He concludes that rice undoubtedly plays a very important part in the pathogenesis of the disease, but that the superiority of the milled to the polished rice does not lie in any antitoxic effect of the hulls but in the fact that they protect the grain against degeneration from heat and moisture. He considers the disease an intoxication, not an infection, and cites in support of this theory the fact that a very severe epidemic of beri-beri was followed by an epidemic of scurvy, the latter disease attacking only those who had been affected by the former. The two diseases seem to be in a sense interchangeable. Moreover, even when polished rice of the same quality is used, marked decrease is noted in the epidemic when the diet is varied by a free use of fresh vegetables, fruits and meat. In addition to the dietetic factors, overcrowding and dampness seem to play an important part in the course and severity of the disease. Gouzien is at the head of the medical department of the French army in Tonquin, and his article is published in the *Annales d'Hygiène et de Médecine Coloniales*, 1912, xv, 3.'

Yet Carl Lovelace, M.D., of Porto Velho, Brazil, claims (*Journal American Medical Association*, Dec. 14, 1912) that rice is not a factor in the causation of this disease. He says that amongst the 70,170 admissions to the hospital of the Madeira-Mamoré railway between Jan. 1, 1908, and Jan. 1, 1912, the diagnosis of beri-beri or of 'poly-neuritis' or of 'multiple neuritis' was made 963 times. He says: 'My second proposition is that this affection as it occurs in Brazil is not etiologically related to a diet of polished rice. To resist this negation requires some temerity on the part of a mere clinician, after reading the papers of Fraser and Stanton,⁸ and many references to the work of Chamberlain and Vedder,¹⁰ Hoiser and others in the

Philippines. I do it because I have seen some patients with beri-beri whose diet was varied and abundant—who had not eaten a grain of rice for many months before the onset of the disease; a large number of patients with beri-beri, who, enjoying a liberal, protein-abounding diet, had eaten it only occasionally throughout their lives, and a great number of sufferers from the disease, in whose diet it could not be considered the staple article. Of the latter class I have seen a goodly number who for months before the onset of the disease had had rice excluded from their diet.

Unlike the Oriental, the South American, by nativity or adoption, is a meat-eater. He eats the European breakfast, but he eats two full meals every day and partakes liberally of meat at both. Beans, which are supposed to have a therapeutic value in the treatment of beri-beri in the East, are staple articles of diet throughout North Brazil. They abound on the tables of the poorer classes. *Feijoada*, a compound of bacon, red beans and dried beef, lightly touched with garlic and bathed in its own gravy, is the dish universal among the poor, and not despised by the wealthy. The bean with meat is the staple article of food of the Brazilian peasant. Rice and *fariuha* (cassava) and bananas are side dishes. It must be admitted that the Brazilian labourer eats some rice practically every day, and that the incidence of beri-beri is perhaps highest in his class; but the same line of reasoning would incriminate polished rice as a casual factor in lobar pneumonia, malaria, uncinariasis and gonorrhoea. Among our Brazilian employees lobar pneumonia is twenty times more frequent, relatively, than it is among our American employees.

In December, 1909, alarmed at the increase of beri-beri among our employees of all classes, we caused rice to be eliminated from all company messes and removed from all the commissaries. In lieu of rice we furnished macaroni. The staple food-stuffs of the labourers were made to consist of dry biscuit, meat (dried and tinned meat and codfish), beans and macaroni instead of dry biscuit, meat, beans and rice. Conditions along the line of work were such that a large majority of the labourers were deprived of rice. The men who boarded at the company's messes ate no rice at all. The beri-beri rate climbed steadily throughout the year 1910, and dropped abruptly at the end of the year exactly as it had done in 1909. In 1910 on a comparatively rice-free diet, there was relatively three times as much beri-beri amongst our employees as there was in 1911, during which year all the messes and all the commissaries of the compound served and sold rice freely. The rice has always been the same kind—white, polished rice.

One of our American physicians, who did not eat a grain of rice while in Brazil and who purposely refrained from eating it because of its supposed association with beri-beri, contracted the disease after about ten months' service here and was invalided home. Three other members of our staff, who lived at headquarters and who ate rice only occasionally, certainly not more than once a week, were invalided home with the diagnosis in both cases of beri-beri. One of these men ate at the table of the chief engineer, the other two lived at this hospital. At neither table did rice appear except occasionally. Two other physicians stationed in the camps contracted the disease and were invalided home. Because one of these physicians had malarial parasites in his blood, when he got home, his affection was there diagnosed as 'malarial neuritis.' In all, six physicians have contracted the disease here—six healthy, young adults who lived on a full protein-rich diet.

The incidence of the disease among physicians has been greater than among any other class except the Brazilian labourers. Does not this fact alone speak volumes?

In 1910, out of a total of 690 admissions to the first-class ward of this hospital, there were twenty-four cases of beri-beri. Many of these patients came here and were invalided back to the United States during the time that rice was prohibited.

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They did not eat a grain of rice. They were clerks, mechanics, camp foremen, time-keepers, etc. Their diet here would not have suffered, in comparison, as to quality, quantity and variety, with the diet of persons similarly employed anywhere in the United States. Fresh meat, onions, potatoes and an abundant supply of the best American tinned meats, fruits and vegetables were supplied in lavish profusion, in addition to the bacon and beans which have belted the globe with steel rails. Among the men from whom these cases were drawn (and no account is taken of a number of contract-expired men, who left of their own accord when the disease first manifested itself) the food supply was above criticism from any standpoint.

In a paper read before the annual meeting of the American Society of Tropical Medicine, in June last, Dr. R. H. Croel, U.S. Public Health Service, writes:

Summarizing the prevalence of beriberi, it is seen that the disease is confined chiefly to those people that mainly subsist on rice. The Moluccas, where the allied diet of sago obtains, is an exception.

The origin of beriberi is not recorded, but the great increase of cases has been coincident with the increased production of steam milled rice, and is proportionate in different localities to the amount of polished rice consumed.

In the Philippines and other parts of the Orient, beriberi outside of Government controlled institutions, has been on marked increase during the past decade.

The mortality in Manila from beriberi during the last eight years has been double that from cholera, and has exceeded that from any other disease. Beriberi in the United States has not shown any great prevalence and is not a matter of concern to us from a public health standpoint.

If the diet of the Oriental be liberally increased or made equivalent to a Western standard there would no longer be a beriberi problem.

The prevention of beriberi is all very easy on paper, but the practical application of prophylaxis is quite a different matter, when we consider the small sanitary force at work among a people that are not at all overly keen in cooperation with alien advisers or administrators.

Enteric fever. Protective vaccination against typhoid has been steadily advancing in favour among medical men since its first trial on a large scale by the British army in the Boer war. It has also been used with satisfactory results in the French, Russian and Japanese armies, and is said to be completely harmless. The operation is similar to that against smallpox, but produces even less inconvenience. Because of its results in the French army, anti-typhoid vaccination as a compulsory public measure is being advocated in France, where 6,000 deaths from the disease occur annually.

In 1911 compulsory vaccination against typhoid fever was ordered for the United States army, consisting of about 76,000 men. Nearly a year ago the navy authorities adopted a similar policy. Recently Surgeon General Stokes of the navy stated that not a case of the disease had occurred among the 64,000 enlisted men of the navy in the eleven months since vaccination. Army reports show similar immunity; of the 16,000 men mobilized in Texas in 1911 because of the troubles in Mexico, only one contracted typhoid during three months of camp life. In the Spanish-American war, with no such vaccination, 29,738 cases of typhoid developed and more than 80 per cent of the total mortality was due to the disease.

Major F. F. Russell, Medical Corps, U.S. Army, has written as follows:

It is now little more than three years since we, in the army, began our present campaign against typhoid fever, using anti-typhoid vaccine with the idea of immunizing each individual soldier.

That the ordinary means of prevention are not available for the protection of the health of soldiers in the field is well known. To furnish troops in camp and on the march with unpolluted water and suitable food has been, and still continues to be, a problem for field sanitarians, but the difficulties to be overcome are so great that success has rarely attended their efforts.

The experience of our troops in the war of 1898 is still fresh in our minds. It will be remembered that among 120,000 men we had 20,730 cases and 1,580 deaths, or about one case of typhoid to every five men. During the Boer war the English army had 31,000 cases and 5,877 deaths. During the Franco-Prussian war there were 73,396 cases and 8,789 deaths among the German troops alone; in fact, 60 per cent of their total mortality was due to typhoid fever. The records of the Civil War show that there were over 80,000 cases in the Northern army.

In the country at large we know that the disease is altogether too prevalent; in 1910, in the registration area of the United States, which comprises only 58 per cent of the total population, there were 12,673 deaths from typhoid fever, or 23.5 per 100,000 population.

From these figures it is evident that there is no more important problem for military surgeons than the prevention of typhoid fever, consequently we have attacked the disease from all sides. Every effort is made to supply pure water and uncontaminated, wholesome food. Improved methods of camp sanitation have lessened the difficulties due to flies and the lack of sewerage system. Nevertheless, we know that in time of war this system of sanitary safeguards would break down and typhoid fever again become the formidable antagonist it has been in the past. For this reason we began, as I have stated, to vaccinate each and every individual against typhoid as well as against smallpox, the two vaccinations being carried out simultaneously, one on either arm.

Bacterial vaccines against typhoid were first used by Pfeiffer and Koll in Germany (*Deut. Med. Wochenschr.*, 1897, 735), and by Sir A. E. Wright in England (*Lancet*, Lond., September 19, 897, and *Brit. Med. Jour.*, January 30, 1897, 16). The changes in the blood serum after vaccination were studied first by Pfeiffer and Kolle and afterwards by Wright, so far as was possible with the laboratory methods in use at that time, and the same immune bodies were found in the serum after vaccination with killed typhoid bacilli as were found after an attack of typhoid fever.

In the early days there was a tendency to consider that this immunity lasted little more than a year, since agglutinins disappear from the blood serum at about this time, yet we know that these antibodies are present as long after vaccination as after typhoid fever itself, which confers, usually, protection for life. We are not, therefore, justified in concluding that the immunity ceases with the disappearance of the agglutinins and other antibodies. It remains to be seen if the immunity lasts as long as that conferred by vaccinia.

We also know that the immunity is not absolute, for in 1911, among about 80,000 persons vaccinated, there were twelve cases of typhoid, with one death due to hemorrhage, and in 1910, among 15,000 vaccinated there were six cases with no deaths. The diagnosis of typhoid was made purely on clinical grounds in many of these cases, and it is indeed perfectly possible, almost probable, that some were paratyphoid fever. During the past year we have seen an increasing number of cases and it may be more common than appears from our returns.

In India, Colonel Firth (*Jour. Roy. Army Med. Corps*, 1912, XIX., 157) reports 104 cases of paratyphoid fever in 170 cases of typhoid during the year 1911, all based on accurate bacteriological diagnosis, by means of blood cultures. This point is of considerable importance, as antityphoid vaccine does not protect in the least against paratyphoid fever.

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The fact that the immunity is not absolute is, however, no objection to its use, but rather an argument for its repetition at intervals to be determined in the future as the lessons of experience become clear, just as we now do in the case of smallpox. The failure, in some cases, to secure absolute immunity may be due to inefficient vaccine, to exceptionally large quantities of infectious material, or to inability of the individual to respond to immunization with the usual antibodies, and this failure may be interpreted as a personal idiosyncrasy. With the limited number of doses of vaccine now used, we can never hope to raise the immunity high enough to protect against overwhelming doses of infectious material, and there are, no doubt, certain persons who cannot be completely protected against typhoid any more than against smallpox.

In the future no army should be ordered into the field in a region where enteric fever is endemic, unless every individual of the command has been immunized against the disease. It is the only method of prophylaxis which protects the soldier against the ever-present bacillus carrier, and the only kind of protection which is effective under all conditions.

Its use during epidemics is another important field.

Still another group of importance consists of children and college students who are at the most susceptible age. In addition they are exposed more than adults because of the greater use of unheated milk and long summer vacations in the country. Children and young people bear the immunization particularly well and it is advisable to vaccinate them before they leave home for the summer vacation or college. There is no more objection to revaccinating against typhoid than against smallpox.

Dr. Russell, after experience with 350 cases of anti-typhoid inoculation in the United States, gives his opinion that the inoculation as a preventive measure is both necessary and highly desirable for children and young adults, especially when leaving home for summer vacations, schools and colleges. In the cases studied no harmful effects are reported, none have contracted typhoid fever, and both the local and general reaction are less marked than in adults. The dosage is based on weight and not on age. Revaccination should be undertaken earlier than in adults. The importance of this subject may be judged from the statistics of the U. S. Bureau of the Census, which show that in 1909 there were 3,766 deaths from typhoid in the registration area in patients under twenty years of age. Of this number 1,192 deaths occurred in patients under ten years of age. A very large proportion of these could undoubtedly be prevented by the use of the vaccine.

Tuberculosis. The turtle serum vaccine for tuberculosis introduced by Dr. F. E. Friedmann, and described by him in a paper published in the *Berliner klinische Wochenschrift* of November 18, of which an account was given in the *British Medical Journal* of December 7, 1912, is being investigated in the United States, where Dr. Friedmann now is. We are informed that his colleague, Dr. Piorkowski is at present in London. We learn from the *New York Medical Journal* of March 20 that the following statement has been made by the United States Public Health Service regarding its investigation of the Friedmann treatment for tuberculosis. On March 8 the Secretary of the Treasury, on the recommendation of the Surgeon-General, caused a board of medical officers to be detailed to make a thorough investigation of Dr. Friedmann's alleged cure for tuberculosis. These officers proceeded immediately to New York, and arranged with Dr. Friedmann for demonstrations of his remedy upon persons suffering from tuberculosis. These demonstrations are being carried on in certain New York hospitals through the courtesy of their respective authorities, and will be continued until sufficient information has been obtained for the forming of an opinion as to the merits of the treatment. Dr. Friedmann has method of treatment. In addition to the observation of persons under treatment by submitted to the board a culture of the bacteria which, he states, are used in his

Dr. Friedmann, the board of officers will make experiments to ascertain whether this culture is, as Dr. Friedmann asserts, harmless to warm-blooded animals. Considerable time will necessarily be required to carry out these investigations, and in the meantime the public is advised that tuberculosis patients should not travel long distances in the hope of receiving the treatment. Those to whom it is administered for demonstration purposes are selected by the hospital authorities from among their patients, the number selected constituting only a small proportion of available volunteers. Certain statements purporting to be expressions of the opinion of the board of officers of the public health service carrying on the investigations have appeared in the newspapers. These officers have expressed no opinion, and will not be in a position to do so until the work has advanced sufficiently far to warrant some conclusion in regard to Dr. Friedmann's treatment.

In the *Medical Record* of the 22nd inst., Dr. Karl Von Ruck writes in part: In the light, however, of the fact that many other creditable observers have noted the recurrence of virulence with like cultures it remains for Friedmann to show that his particular culture is permanently avirulent for the human subject, which he has, of course, not done, and which he is unable to do without resorting to the human experiment supported by autopsy. The best of avirulence for the guinea pig, while suggestive, is not conclusive and would not be, even if by passages through this or other animals, he had shown these to be resistant.

The ordinary duration of the life of a guinea pig is not long enough to show what might occur in the human subject, knowing as we do that an infection acquired in early childhood may not become manifest until in later periods of adult life.

We know that tubercle bacilli can continue, in a living state, in the tissues of animals without apparent pathogenic power for years, and we have ample evidence that this can be likewise the case in the human subject as shown by so-called latent infections, which after many years may become active and progressive. We must in the light of such observations conclude that though avirulent for long periods of time, the bacilli gradually adapt themselves to their host and acquire pathogenic power. To such a change the organism may itself contribute by metabolic changes in its own tissues, favoured by intercurrent diseases, by trauma, or by nutritive disturbances, or the bacilli may acquire virulence by successive subculturing in the organism itself, *in situ* or after transport from a tissue highly resistant, to one that is less so.

It may, however, be presumed that Dr. Friedmann was in possession of ample and conclusive evidence to contradict at least most of the objections stated and others which might be suggested, before he inoculated several hundred infants and young children with his living bacilli, and that for their successful protection he will supply in due time, other proof than the statement that 'although some of them had been vaccinated a year before he made his communication, none gave evidence of serofula.' Valid evidence is the more necessary because none of the animals which he sought to protect with his living bacilli, resisted an infection with a but slightly virulent culture of tubercle bacilli, judging the degree of virulence by the length of time necessary to cause death of his control animals.

Another writer in the same paper says:

The notoriety given by the public press in this country to the claims made by Dr. Friedmann, of Berlin, before the Berlin Medical Society on November 6 last, interests the writer more particularly on account of Dr. Friedmann's statement that he has vaccinated 260 children within the last year with a vaccine consisting of living tubercle bacilli, that had been found non-virulent by laboratory experiments. The *Berliner klinische Wochenschrift* of November 18 contains Friedmann's paper in full and also the discussion which followed its presentation. In the latter, several of those participating made it clear that, with the evidence at hand, the use of a

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living virus, which for the time had lost its virulence for laboratory animals, was not justified and implied serious risks. Citron called attention to the experience of Pasteur, with a presumably non-virulent living virus of chicken-cholera which though first apparently successful, for some unknown reason regained its virulence later, and instead of protecting, caused veritable epidemics in the fowls which had been injected for the purpose of their protection.

It appears to me that even with the risk of using a living virus, Dr. Friedmann has not supplied the slightest evidence that he has conferred any degree of resistance or of immunity on the children which he inoculated. The only evidence which he sets forth for this purpose, namely that these children are so far free from scrofula can scarcely be called evidence of immunity, nor does it preclude the possibility of his having actually infected them, since an intramuscular injection of tubercle bacilli does not necessarily produce clinical evidence of tuberculosis in the time which has intervened, and need not do until many years later.

The *Journal of the American Medical Association* says in regard to this matter:

In another place in this issue of *The Journal*, read in the Berlin Letter of last week's issue, reference is made to Friedmann's treatment of tuberculosis. This method of treatment does not appear to be based on any new principle. It represents simply another effort to utilize for curative and preventive purposes the antigenic substances in the tubercle bacillus, without the simultaneous introduction of any toxic or harmful substances. In order to secure this effect, living bacilli, devoid of virulence and invasiveness, so it is asserted, are injected intramuscularly. These bacilli are said to be derived from the turtle, but the method by which they are deprived of virulence is withheld. This secrecy is not in accord with the ethical standard of scientific medicine. The report as to the results of the practical use of this carefully guarded secret shows, first, that in the experiments on guinea-pigs complete protection has not been obtained. Indeed, it is doubtful whether the protection obtained is any greater than that obtained by the injection of killed bacilli. Furthermore, there are no indications that it has been possible to cure tuberculous guinea-pigs by means of the bacilli rendered avirulent by a secret method. The treatment consequently lacks an unassailable experimental basis, a really and promptly effective cure for tuberculosis is expected to cure tuberculosis in guinea-pigs and other animals. The injections so far made by Friedmann in children seem to indicate that the bacilli as injected are harmless in children, and that is all. We have no evidence that the injections will prevent tuberculosis in children, and from the nature of the case it will be exceedingly difficult to determine what the effect of such injections really is. In the second place the alleged curative effects do not seem to be any more pronounced and definite than those obtained with the various forms of tuberculin when properly used. The remarks made in the discussion following the reading of Friedmann's paper before the Berlin Medical Society clearly substantiate this statement. Finally we come to the possible dangers of the treatment, to which Citron refers, namely, reversion to virulence on the part of the bacilli. This possibly must be reckoned with and constitutes a serious detriment to the method, no matter what its real virtue may be, if it has any. Its apparent harmlessness in children so far is counterbalanced by this possible danger. In view of these considerations there is not sufficient warrant for any other attitude toward Friedmann's treatment of tuberculosis than one of critical neutrality and judicious skepticism; for it concerns an essentially secret procedure without adequate experimental basis and without any better results to its credit than produced by tuberculin properly used.

Those who think that sometimes physicians are prone to be too sceptical and lacking in readiness to look with favour on new therapeutic announcements should

have recalled to them a little medical history, which shows clearly how few of the vaunted new cures prove successful. There is scarcely a month that passes in which there is not some announcement of a novel remedy or mode of treatment for some disease or other. It is not too much to say that ninety-nine out of every one hundred of them either fail completely or else prove eventually to be of very minor significance as curative agents.

Hence the medical and professional attitude toward new cures in general and particularly those announced for our chronic and most frequent diseases. It is no spirit of jealousy that dictates the scepticism, but, on the contrary, the very proper desire to safeguard the public from the injury that inevitably comes when a remedy proves to be a failure.

For even when the remedy is perfectly harmless in itself the excitement and above all the disappointment prove harmful to patients. There is no doubt now, however, that Dr. Friedmann's new cure will be properly tested and every possible benefit that it may be to incipient consumptives accurately estimated. It will be a question of months, however, not weeks, for the decision to be reached, and in the meantime the less that the great body of sufferers from tuberculosis are disturbed over the new remedy the better.

The Canadian Association for the Prevention of Tuberculosis invited Dr. Friedmann to come from New York and to deliver an address at the annual meeting of the association. This he did. He subsequently treated some patients at the Water Street Hospital. With regard to this the association appointed a committee of five medical members of its executive committee to watch the progress of the cases and to report upon them. Our position in the matter is 'We do not endorse or recommend Dr. Friedmann's treatment, nor can we be sure that it is entirely safe, but we are willing to observe patients who take it upon their own responsibility, and to report the results impartially.'

It cannot be long before the true value of the treatment will be clearly ascertained. Then, and not until then, will the world know whether it is a discovery worth untold millions or merely one of the numerous false beacons which have raised the hopes of millions of sufferers only to dash them to deeper despair.

Circulars.—Circular letters were issued from time to time to your different officers, calling their attention to the various matters during the year. On June 9, pneumonic plague in North China; October 2, plague at the Azores; October 7, plague on the Tyne; December 17, routine disinfection from Hong-Kong suspended; January 13, 1913, plague rats in Liverpool; January 29, cholera in Constantinople; and March 1, plague in the Canary islands.

Bulletins, &c., received.—The weekly Public Health Reports of the United States Public Health Service have been regularly received and are of great value, as are also the monthly bulletin from provincial, state, and municipal boards of health in Canada, the United States and other countries. The bulletins of the International Office of Public Health, Paris, and of the Sleeping Sickness Bureau, London, have been regularly received throughout the year and in both cases spare copies received have been distributed to the provincial boards of health.

Preventive Medicine.—M. J. Rosenau, Professor of Preventive Medicine and Hygiene, Harvard University, very aptly writes: One reason why prevention has not made faster progress is because it lacks dramatic interest. When we prevent disease—nothing happens! There is nothing very exciting about that. To cure a disease or to stamp out an epidemic fills the eye and appeals to the imagination. A brave general or a gallant admiral is the object of universal admiration, but where is the monument to those who have prevented war? Again, if disease is prevented, there is always a lurking suspicion that perhaps it would not have occurred anyway. This skepticism, which is born of ignorance, is one of the most powerful brakes upon the chariot of progress.

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The results of cure are positive—the results of prevention seem negative. Cure is real, active, evident; prevention seems mysterious, quiet, uncertain. For instance, the fact that the effects of prevention are not plain enough for every one to see is one of the obstacles against which vaccination has always had to contend. If Jenner had discovered a cure for smallpox instead of a preventative, and if that cure had been half as effective as vaccination, every civilized nation in the world would do him homage.

The increasing appreciation of public health work, however, is shown by the statement in the journal of the American Medical Association, that the United States spent last year \$2,429,644.95 on strictly public health service, and that the port physician of the port of New York is this year asking for appropriations from his state of \$2,000,000 for the reorganization of the quarantine service of the port, and for an addition of \$35,000 to the pay roll.

Carriers, Human.—An article on this subject in a bulletin of the Ohio State Board of Health reads in part as follows:—

Investigation along epidemiological and bacteriological lines tends more and more to disprove the old theories of transmission of acute contagious and infectious diseases by fomites. The theory of the prolonged sojourn of specific micro-organisms in inanimate nature can no longer be considered valid. As these sources of infection assume their position lower and lower in the scale of important disseminators of disease, only the human carrier is left. Aside from this negative evidence bacteriology furnishes concrete proof of the importance of the human host. The transitory, the precocious and the chronic carrier are overlooked, assuming greater importance, not only as so many foci from which infection is spread, but also as a means of conserving the stock and bridging over the quiescent period from one outbreak to a later epidemic.

The precocious carrier is one who harbors the specific etiological agent of a disease, but who has not as yet shown symptoms of the disease. The transitory carrier is one who has had the disease, and who, after the stage of acute symptoms has passed, still carries the virus or bacterium for a variable time. Least common, but a great source of danger, is the chronic carrier, who for long periods after convalescence is established, harbors the specific organism, now distributing them broadcast, and not showing no bacteria in any of his secretions, but later becoming an active carrier again. A fourth class might be added, comprised of those who "distill" or spread the organisms only during the course of their illness. It is true that this is not generally considered with the carrier class, but in the true sense of the word its members are carriers, and are responsible for more numerous cases of disease than all the other classes combined.

If, then, as is possible, by the human carrier the all important agency for the spread of disease, our problem, while not made easy, is no simpler to grasp, and if its importance is realized an enormous amount of time and money will be saved. It is recognized that fomites, or inanimate objects, in intimate association with the patient, may not spread disease; the question, is that this method of transmission is very unimportant as compared with the human carrier.

Carriers, Insect. The *Journal*, November 16, 1912, says on this subject:—

Somebody secured in our native importance to bacteria, the principal agents in infectious diseases, are parasites and other insects, the active and often indispensable mediums in the spread of such diseases. This phase of epidemiology has not been exhaustively studied, and it is possible that scarcely more than a beginning has been made in determining what insects may act as carriers. Mention need hardly be made of the two species of mosquito, the housefly, the flea, the tick, &c., as well-known carriers. M. F. Gates states that on shipboard roaches, to which hitherto little attention has been paid as carriers of disease, are responsible for the continuance and

spread of typhoid, diphtheria, tonsillitis and tuberculosis. He does not state this as a result of experimental demonstration, but as a conclusion arrived at through experience in epidemics in the navy. If this is possible on board ship it is no less possible in the congested quarters of cities, tenements, rooming-houses and especially hospitals. Gales reports pulverized sodium fluorid used as an insect-powder as the most satisfactory method thus far tried by the navy for ridding the ships of roaches. W. M. Kerr seems to have found evidence which incriminates the bedbug as a carrying agent in leprosy and sustains the opinion that it is responsible for the transmission of that disease in a large number of cases. In a series of experiments in which numbers of different insects were allowed to feed on the infected areas of leprosy patients and were afterwards examined, the flies, fleas and mosquitoes were found to contain very few acid-fast bacilli, but these were found in considerable numbers in a large percentage of the bedbugs. No acid-fast bacilli were found in control insects, which were examined in large numbers. The difficulty of cultivating the lepra bacillus and the inexpediency of experiments on human subjects make further experimental evidence difficult to obtain.

The experiments of M. J. Rosenau, recently reported before the International Congress on Hygiene and Demography, indicate that anterior poliomyelitis may be carried by the common biting or blood-sucking stable-fly. Previous experiments have seemed to demonstrate that the disease is also communicable by the secretions of the nasal mucous membranes and digestive tract. Rosenau's demonstration consisted in allowing flies which had fed about the faces of infected monkeys to bite healthy monkeys. The resulting infection of the latter with anterior poliomyelitis seems to prove that these flies are capable of acting as carriers, and the latter experiments of Anderson and Frost, to which reference was made in our editorial November 2, apparently confirm Rosenau's work.

Communities must perforce depend largely on medical men and boards of health for proposing and directing measures looking to the prevention of the spread of disease by carriers. Therefore medical men and boards of health are under obligation to know not only what agents may act as carriers, but also what means may be of service in exterminating the pests.

Aerial and Contact Infection.—In a paper read before the International Congress of the Hygiene and Demography, held at Washington last September, Dr. Charles V. Chapin, summarized as follows the views not generally accepted, and the diminished belief in the essential importance of infection by means of contaminated air. Formerly it was thought that yellow fever, influenza, cholera, scarlet fever, typhoid fever, smallpox, diphtheria, and tuberculosis were all air-borne diseases. Experiments establishing the insect origin of yellow fever and malaria have proven that at least these two diseases are not in the air-borne group. There is no good evidence of the air carriage of typhoid fever or cholera and the rapid diffusion of influenza can be explained by the ubiquity of carriers. Observations around hospitals and dwellings show that diphtheria and scarlet fever are not carried by the outer air and the consensus of opinion of the bacteriologists is that tuberculosis is probably not transmitted in this way. The view of certain English observers that smallpox may be carried long distances through the medium of air alone has not stood the test of careful analysis. The existence of carriers and mixed cases affords such ample opportunity for infection by contact that the theory of aerial transmission is no longer required to explain the origin of hitherto unexplainable cases of contagious diseases. However, it is theoretically possible that the contaminated air of houses and hospital wards may transfer the disease from one part of the infected building to another, although the virus may be too diluted in the outer air to do any harm. But even in the case of indoor infection the evidence for air transmission is not strong. The bubonic type of plague, Mediterranean fever, cerebrospinal meningitis, and poliomyelitis do not spread in

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hospital wards. When hospital infection occurs in cholera and typhoid fever it can invariably be traced to a contact infection. Typhus fever is transferred by insects, and the experience of Mexico and England with this disease shows that infection by air does not occur in hospital. By a study of conditions in Providence, Chapin found that scarlet fever and diphtheria are not air-borne from family to family in the same dwelling. An identical opinion has been reached by independent observers in other parts of the United States as well as in France and England. Finally it would seem that it has been definitely proven that air is practically a negligible factor in the transmission of all the contagious diseases except measles, whooping-cough, smallpox, chickenpox, and rubella. In regard to these, opinion is still divided.

The Pollution of Public Water Supplies.—At a meeting of the Great Lakes International Pure Water Association, held in Cleveland, Ohio, recently, a special committee previously appointed, of which Mr. George C. Whipple, consulting engineer of New York city was chairman, made a report, which was adopted by the association.

The following extract from that report shows some of the conclusions of the committee:—

• The committee finds that on account of the increasing population of the country, it is and always will be physically impossible to maintain waterways in their original and natural condition of purity. A reasonable degree of cleanliness should nevertheless be demanded.

• The discharge of raw sewage into streams and harbours should not be universally prohibited by law. The method of disposal of sewage by dilution is recognized as sound in principle and safe in practice if carried on with proper restrictions.

• For each waterway at any given point there is a limit to the amount of permissible discharge of waste matter, depending upon the use that is made of the river and the character of the territory through which it flows. No universal standard of purity can be wisely established or maintained. When the extent of the pollution is such as to affect the public health in any way by any reasonable use of the river, the sanitary aspect of the situation should control and the degree of pollution should be regulated accordingly. The courts must decide what is 'reasonable' use. When the extent of the pollution is such as to cause sensible offence to public decency in the course of any reasonable use of the river, this aspect of the situation may properly control. When the extent of pollution is such as to cause material injury to fish or shell-fish industries, or to the ice industry, this element may control. When the extent of pollution is such as to cause the silting up of the channels of navigable streams, this element may control.

• Even when the demands of public health, offense to decency and interference with navigation are such as to place a limit to the pollution of the stream, the economic aspects of the case should be considered in regulating the amount of permissible discharge of waste matter, the fundamental principle being that the results accomplished shall be reasonably commensurate with the cost of prevention of the pollution.

• While no universal standard of purity applicable to all rivers and waterways can be established, it is believed to be feasible to establish and maintain appropriate standards of a general nature for waters that fall within certain particular groupings. The committee has this matter under advisement, but is not prepared to report upon it in detail at this time.

• Inasmuch as the safety of public water supplies is the most important element in the problem of stream pollution at the present time, the following general principles should govern the discharge of sewage and waste matters into rivers and waterways:

• Streams from which water supplies are taken without purification should not receive any fecal matter, sewage, sewage effluent or wastes that will render the water a menace to health or otherwise impair its natural quality.

'Streams from which water supplies are taken and used after purification should not receive fecal matter, sewage, sewage effluent or waste matters in such quantities that the contamination of the water at any waterworks intake would put an unreasonable burden upon the purification works, or in quantities sufficient to produce the conditions referred to in the next paragraph.

'Streams not used for water supply may receive sewage wherever and in such quantities that its entrance will not sensibly offend decency in the reasonable public use of the stream or cause interference with navigation or with valuable fish industries or the ice industry. Where this cannot be done, the sewage or waste should receive such treatment before discharge as to bring the effluent within this rule, due regard being given to the relative cost of the processes required and the benefits to be derived.

'Large lakes from which water is used for public water supply after filtration should not receive any fecal matter, sewage or sewage effluent within a distance of several miles from the intake, depending upon local conditions as to currents, and suitable provision should be made for disinfecting the water supply.

'Large lakes from which water is used for public water supply after filtration should not receive fecal matter, sewage, sewage effluent or other waste matters in such amounts or at such places that the water reaching the intake would be contaminated to the extent that an unreasonable load would be placed upon the filter, or in quantities sufficient to produce the condition referred to in the next paragraph.

'Lakes not used for water supply, harbours and tidal estuaries, may receive sewage if discharged in such a manner as to be quickly and thoroughly diluted, so that its entrance will not sensibly offend decency in the reasonable use of the water, or interfere with navigation. Where this cannot be done, sewage should receive such treatment before discharge as to bring the effluent within this rule, due regard being given to the relative cost of the processes required and the benefits to be derived. The data for deciding what is a reasonable burden to place upon a water filtration plant have not yet been secured. It is recognized that water filtration plants are not infallible, and that for this reason the work that they are called upon to do must not be too great. Until this fundamental question is settled, it will not be possible to formulate reasonable standards of purity for streams necessarily used both for sewage disposal and water supply. Often greater economy can be secured by abandoning water supplies from polluted streams than by attempting to reduce the pollution to the required extent.

'While recognizing that the pollution of many rivers and waterways is inevitable and that absolute prevention of pollution is impossible, it is deemed imperatively necessary that some control over the discharge of waste matter into rivers and waterways be maintained. The committee heartily endorses, therefore, the movement that is being made to keep the pollution of streams within reasonable bounds.

'The committee recommends the adoption by the association of these fundamental propositions, believing that they will serve as a basis for the establishment of more detailed standards later and will be helpful to those who at the present time are engaged in formulating policies in regard to this matter. The committee also requests that it be allowed to continue its work for another year.'

Human Hair.—*The Medical Press and Circular* writes as follows: Traffic in human hair is growing extensively since fashion imposes the wearing of chichis on our fair sisters. China is the great exporter of hair, and the best market is New York, whither 282 tons were sent last year, representing £150,000. But Vienna, London, and especially Paris are not much behind.

The hair from China does not come from the dead, as was often feared, but almost exclusively from hair falling during the toilette of the Celestials, collected with care by hair dressers and servants.

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For many years the hair was exported in the 'raw' state—that is to say, with no other treatment than the disinfection imposed by the sanitary service. But recently several manufactories have sprung up, one of which employs no less than 600 hands. Here the hair is combed and washed in a bath containing soda, black soap and ammonia; after drying in a current of hot air, the hair is plunged for twenty-four hours into a vat of boiling water. It is finally sterilized in an autoclave, and then receives the colour desired, there is very little use for black hair.

The aeration of the hair during these processes, and the subsequent boiling and sterilization, may be taken to remove all danger of the introduction of disease into the country by the importation of this hair.

Carbon Monoxide disinfection.—An extremely efficient apparatus has been recently put upon the market to draw the carbon monoxide and carbon dioxide from the tunnels of steamers for fumigating purposes. These gases were first passed through scrapers to get rid of the soot, and were lethal to the rats. But they did not kill the fleas, and it was no use having any gas which did not kill the fleas. That only added to the risk, for once the rats were dead the fleas sought the nearest living creature in order to obtain nutriment.

Carbon Monoxide disinfection.—An extremely efficient apparatus has been recently put upon the market to draw the carbon monoxide and carbon dioxide from holds, when there was a rush of gas through bulkheads into the men's quarters, and the smell of the gas induced the men to escape. If carbon monoxide had been used the men would not have recognized it, but it would have been overcome, and have lost their lives.

Federal Control of Vaccines and Serums.—The Journal of the American Medical Association in a recent editorial on this subject, has in part as follows:

This country is being flooded, and it is the same abroad, but to a less extent, with preparations belonging to the general class of 'vaccines, viruses, antitoxins, &c.' As many of these bear the label 'Licensed by the Treasury Department' or 'U. S. Government License No. . . . ' and, for the most part, 'Guaranteed under the Food and Drugs Act' in addition, it may be well to remind our readers of the exact meaning of these phrases. The guaranty under the Food and Drugs Act has no meaning at all for the consumer; it simply means that in case of legal difficulty the retail dealer may shift the responsibility to the manufacturer. The most brazen humbugs are 'guaranteed' in this way; this phrase has led to much misunderstanding and has undoubtedly greatly increased the confidence, even of intelligent persons, in nostrums.

The 'License of the Treasury Department' has a different significance, although it too, is capable of abuse and is being abused. Perhaps the situation will be more intelligible if we review briefly what the license means and what it does not mean.

Several years ago Congress passed a law to regulate the interstate traffic in viruses, serums, &c., the enforcement of which was placed in the hands of the Public Health and Marine-Hospital Service. Under the terms of this act and the regulations for its enforcement all manufacturers, both here and abroad, who desire to manufacture such products for interstate traffic are required to procure a license from the Treasury Department. This license is granted only on the recommendation of the Surgeon General of the Public Health Service for a period of one year, and only after a thorough inspection of the establishment and examinations of the products themselves. No license can be granted to an establishment which does not have sanitary stables, a properly equipped laboratory and a competent personnel; the establishments are subject to inspection at any time and are required by law to be

inspected at least once a year. The license may be revoked on evidence that the establishment is not being properly conducted; as a matter of fact, the licenses of some of the best-known establishments both here and abroad have been revoked or suspended pending improvements.

The examinations in the Hygienic Laboratory of the Public Health Service of products found on the market as well as those obtained directly from the firms are directed to detecting the presence of living organisms, especially of pathogenic organisms, the presence of tetanus toxin, the control of the strength of the preparations, so far as this is possible, the absence of adulterations, etc. An illustration of the working of the law is the statement from the last annual report of the Public Health Service that, owing to the difficulty of exercising a satisfactory control over foreign establishments manufacturing vaccine virus, the importation of the latter into the United States is now prohibited. This report also cites the fact that experts from the Hygienic Laboratory investigated certain cases of tetanus alleged to have resulted from the use of vaccine virus; the allegations were found to be baseless.

The Hygienic Laboratory, after prolonged investigations, has established official American standards for diphtheria and tetanus antitoxins; all such preparations sold in the United States are required to conform to these standards. Before the establishment of these standards the antitoxins on the American market were extremely variable; in many cases they were worthless. The control of vaccine virus is similarly efficient; before the passage of the law much of the vaccine virus on the market contained large numbers of living bacteria and 'sore arms' were common. As the result of this work the United States probably leads the world in the quality of diphtheria and tetanus antitoxins and vaccine virus.

It is obviously desirable that the Hygienic Laboratory should extend its investigations and prepare standards for other products to which all firms can be held. This is simply a question of an enlarged laboratory and more money.

The XVth International Congress on Hygiene was held in Washington, D.C., September 23-28, 1912. I had the honour to be present as a delegate of the Canadian Government, and to convey their greetings to the Congress at the public inaugural meeting. Representatives of twenty-eight nations were in attendance, and the delegates were stated to be 3,000 in number. President Taft gave an address of welcome at the opening meeting, and in the course of his remarks urged the establishment of a National Bureau of Health. He said in part:—

'We need to develop under governmental auspices a bureau or a department, in which the funds of the government shall be expended for research of every kind useful in the practice and enforcement of hygiene and preventive medicine.

'That something of this sort may grow out of the present United States Public Health Service there is reason to believe,' continued the President, 'but it will need far greater appropriations and a widening of its scope of duties before it shall have filled the place that the medical professions of this country has a right to expect the general government to create in the progress of hygiene and demography.'

The Congress was organized in two divisions, a division of Hygiene, with eight sections, a division of Demography, constituting a ninth section. The sections are as follows:

1. Hygienic Microbiology and Parasitology; under the presidency of Prof. Theobald Smith, M.D., Harvard Medical School, Boston.
2. Dietetic Hygiene; Hygienic Physiology; under the presidency of Prof. Russell Chittenden, Sheffield Scientific School, Yale University, New Haven.
3. Hygiene of Infancy and Childhood; School Hygiene; under the presidency of Dr. A. Jacobi, Emeritus Professor of Pediatrics, College of Physicians and Surgeons, New York City

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4. Industrial and Occupational Hygiene; under the presidency of Dr. Geo. M. Kober, Professor of Hygiene, Georgetown University, Washington.

5. Control of Infectious Diseases; under the presidency of Dr. Hermann M. Biggs, General Medical Officer, Department of Health, New York City.

6. State and Municipal Hygiene; under the presidency of Dr. Frank F. Westbrook, Professor of Pathology and Bacteriology, University of Minnesota, Minneapolis.

7. Hygiene of Traffic and Transportation; under the presidency of Surgeon-General Rupere Blue, United States Public Health Service, Washington.

8. Military, Naval and Tropical Hygiene; under the presidency of Medical Director Henry G. Beyer, United States Navy, Washington.

9. Demography; under the presidency of Prof. Walter F. Willcox, Professor of Economics and Statistics, Cornell University, Ithaca.

Many valuable papers and discussions formed part of the proceedings.

The honour was paid to Canada of my being appointed an Honorary President of the Congress.

New Quarantine Station.—In May last you advanced the Port of Digby, N.S., to the position of a full regular Quarantine Station for the inspection, etc., of vessels entering the Annapolis Basin, with Dr. E. DuVernet as the Quarantine Officer in charge.

Additional Inspector at Grosse Isle.—Owing to the ever increasing immigration from Europe, and the occasional arrival at one time of more than one vessel heavily loaded with passengers, you judged it necessary to appoint another assistant medical officer at the Grosse Isle station to assist in the inspection of incoming vessels. Dr. Joseph V. Côté, of Cap St. Ignace was therefore appointed by you, and came on duty with the opening of the St. Lawrence season of navigation in April last.

Crews on boats.—At Grosse Isle, in the St. Lawrence, this season the officers and crews of the quarantine steamers have had to live on board instead of in houses at various distances from the wharf. This has ensured the most prompt inspection of incoming vessels. The extension of this rule to the quarantine steamers at other ports is under your consideration.

Mail Steamers.—This season your quarantine officer at Rimouski, instead of merely inspecting during the time occupied by the transfer of the mail to the mail tender has come up to Quebec on each mail steamer. This gives him full time for his inspection, and much lessens the delay at Grosse Isle when there is quarantinable disease on board. Dr. Lepage is the officer in charge of this service. If, as it is intimated, there are to be more than one mail steamer a week during the coming season, the question of increasing the number of inspectors will deserve your consideration.

Changes in staff.—During the last year Dr. Lepage has been appointed in place of Dr. Belisle, at Rimouski, Que.; Dr. McLeod, in place of Dr. Rindress, at Sydney, N.S.; and Dr. Morrison in place of Dr. O'Neil, at Louisbourg, N.S.

Notification Inland.—A recommendation I deem of great importance would be the re-adoption of the immigration destination-notification system. This measure provided that, when immigrants arrive at our ports from infected places, or on vessels on which disease has occurred, the health officers at the places of destination should be sent notification cards informing them that immigrants from such-and-such places arriving on such-and-such ships are *en route* to their cities. In this way the local health officers may have oversight of immigrants from infected ports during, at least, the incubation period.

These notices should be sent from the port of arrival to the different provincial Boards of health, and by them communicated to the local health officers interested.

Sulphur Dioxide Fumigators.—To be ready for the ever possible extension of the threatening of Bubonic Plague involving the expediency of the sulphur dioxide fumigation of vessels from the Orient, or from United States ports, portable sulphur dioxide fumigators on wheels have been provided at Victoria, B.C., and Vancouver, B.C. These can be drawn to the end of the piers for the deratisation, &c., of vessels it is desired to so treat.

Breasting out, &c., of Vessels.—The following regulations, for the prevention of the possibility of bubonic plague getting into this country by means of rats which come from vessels sailing from infected countries, were approved by you in August last to the various ports of Canada, on both oceans. These regulations had already been in force for some time on the Pacific coast.

1. It shall be unlawful for any vessel coming from any port where bubonic plague is present and entering any port of Canada, to be docked or moored at a less distance from any wharf than six feet.

2. It shall be unlawful for any vessel coming from any port where bubonic plague is present, and entering any port in Canada, to be secured or made fast to any wharf by any hawser or hawsers on which there is not placed a metal rat guard or funnel at least three feet in diameter and at least three feet from such wharf.

3. It shall be unlawful for any vessel coming from any port where bubonic plague is present, and entering any port in Canada, to be connected with any wharf by a gangway which is not guarded by some person there for the purpose of preventing rats from leaving such vessel by such gangway, and all gangways shall be lifted when not in use.

We have been advised by the Department of Justice that as the Department of Marine has charge of harbours generally, orders affecting vessels after they have passed quarantine and come into the various harbours would more naturally fall within the jurisdiction of that department. Moreover the regulations in question could be enforced by the Harbour Master and other officials of the Marine Department without such increased expense as would be involved if this department had to appoint special officers in the various harbours for this purpose.

On your request the Department of Marine accepted this obligation, with the arrangement that we should notify them from time to time against which port or ports we advised it be enforced.

In accordance with this agreement I notified the Department of Marine on the 3rd January, 1913, of the finding of plague-infected rats at Liverpool, England, and on the following day instructions were issued by that department to their harbour masters on the Atlantic seaboard.

Official visits, inspection, &c.—On May 9, last, I visited, by your instruction, the Royal Alexandra Hospital for Contagious Diseases at Montreal. By permission of the Department of Public Works I was accompanied by Mr. Wright, their assistant chief architect. The object of our visit was in connection with the preparation of plans for the new hospital to be erected at the Grosse Isle Quarantine Station.

On May 19 I left for Toronto and attended the annual meeting of the Canadian Association for the Prevention of Tuberculosis.

On June 14 I left for the Atlantic coast, and inspected the leper lazaretto at Tracadie, N.B., and the quarantine stations of Chatham and St. John, N.B., Digby, Halifax, Sydney and Louisburg, N.S., Charlottetown, P.E.I., and Grosse Isle, Que., in the river St. Lawrence. Whilst in the Maritime provinces I had interviews with the secretary of the Provincial Board of Health of New Brunswick at Fredericton, and with the secretary of the Provincial Board of Health of Nova Scotia, at Middleton. I was accompanied as far as Halifax by Dr. Tremayne, your quarantine officer at Prince Rupert, B.C., who had been detailed by you to come east to study quarantine work at the Atlantic quarantine stations. On my return journey I stopped over at Rimouski to explain his duties to your new officer there, Dr. Lepage.

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On August 4, I left for the west. I attended the annual meeting of the Canadian Medical Association at Edmonton, Alta., and then proceeded to the Pacific coast where I inspected at Vancouver, Victoria, William Head and Prince Rupert. On this trip I conferred with the provincial health officers of Manitoba, Saskatchewan, Alberta and British Columbia at their respective capital cities.

On September 15 I went to Toronto and attended the annual meeting of the Canadian Public Health Association, September 16-17. Thence I went to Washington, D.C., for the annual meeting of the American Public Health Association, September 19-21, and the XVth International Congress on Hygiene and Demography, September 23-28.

On October 23 I went to St. John, N.B., to superintend the installation of disinfecting appliances under the arrangement of inspecting service; and visited the Halifax, N.S., and Grosse Isle, Que., stations before returning.

On December 15 I went to Buffalo, N.Y., and was present at a meeting of the International Joint Commission *re* Boundary Waters.

Stations, &c., Grosse Isle, Que.—Vessels inspected, 381, an increase of 17 over last season; persons inspected, 219,677, an increase of 17,361 over last season; admissions to hospital, 947. The diseases were smallpox, scarlet fever, diphtheria, measles, rotheln, chicken-pox, mumps, dysentery and enteric fever. There were 13 deaths in hospital, from measles, 3; diphtheria, 1; scarlet fever, 2; mixed infection, scarlet fever and diphtheria, 3; broncho-pneumonia, 1; broncho-pneumonia, complicating diphtheria, 1; meningitis, complicating scarlet fever, 1; inanition, 1.

Smallpox was brought by two steamships, and two further cases occurred amongst those landed for observation. The disease was, in regard to both vessels, stamped out at quarantine.

Diphtheria was unusually prevalent amongst the young immigrants this year.

The year has been a busy one, especially at the hospital, where sometimes as many as 300 were under treatment at the same time.

Inoculations with serum was used 357 times; 459 bacteriological examinations were made, as well as many analyses in the laboratory.

The vaccinations exceeded 3,500.

The inspection service was improved in promptness and efficiency by the appointment of Dr. Joseph V. Côté, of St. Ignace, Que., as additional medical assistant to help in the boarding and clearing of in-coming vessels, and by your regulation, new this season, that the crews of the quarantine steamers must live on board, so as to be always on the spot, ready for immediate duty at the first call.

The improvements commenced last season were the new saloon passenger detention building, a laboratory, dwellings for medical assistants and for nurses, and an extension to the western wharf. These works are not yet quite complete, but it may be expected that they will be finished early this season.

The most pressing wants at this station are a new and enlarged hospital, a T at the end of the western wharf, and the replacement of the old third-class detention sheds by modern buildings.

Rimouski, Que., advance station of Grosse Isle, vessels inspected, 29. Dr. Lepage is now your officer there, and you enlarged his duties to include coming up on the mail steamer and inspecting her between Rimouski and Grosse Isle. This reduces delay at Grosse Isle when there is sickness on board.

Halifax, N.S.—Vessels inspected, 386; persons inspected, 157,499. Admissions to hospital, 115; diseases: measles, scarlet fever, and chicken-pox.

Improvements made during this year have been a residence for the engineer, the disinfecting buildings, the old hospital, and the steward's residence and outhouses were repaired, and the disinfecting buildings and old hospital painted. The roadway recently constructed connecting the wharf and the disinfecting buildings with

the hospital is also a marked improvement. The saloon passenger detention building, the steerage detention building, the two small observation hospitals, the ambulance building and the tank require painting after repair. An icehouse is much required to keep perishable provisions fresh.

During the year four steamers were fumigated for rats. In some of these as many as 400 rats were killed.

One coastwise steamer was treated for the Marine Department for smallpox. The vessel was fumigated, the crew vaccinated and bathed, and their effects disinfecting.

Captain Pye was appointed by you as Captain of the Quarantine Steamer *Minoca* from 1st January, 1913.

During the year we lost by death John O'Neil one of the crew of the *Minoca*, a capable employee.

St. John, N.B.—Vessels inspected, 149; persons inspected, 37,911. Admissions to hospitals, 32. Diseases: measles, meningitis, enteric fever, pneumonia, and mumps. Deaths, two; one from broncho-pneumonia, and one from marasmus. A laboratory, and residences for the bacteriologist, boatman and assistant caretaker are in course of construction. Some general repairs to roofs and to plumbing have been carried out. A new telephone cable has been laid. The water pipe gave out early last autumn. Since then the Station has had to depend upon water brought down from the city by tug, and pumped up to the buildings. The new ambulance has been of great service.

With regard to the requirements of this Station, its Medical Superintendent reports: 'Our most pressing need is a wharf out to low water, and a government-owned boat. A wharf where our boat can lay with her crew on board, so as to be obtainable at all times. Many times as it is now it is impossible to get aboard the quarantine tug on account of the big seas running, and at low water often impossible. Several times this winter we have had to leave the patients on board the ship from one to two days before we were able to land them. Before we will ever be able to board vessels and bring the sick off safely and humanely, the wharf and boat I speak of will have to be furnished.'

Digby, N.S.—This Station was made a regular one by you this year for the quarantine handling of vessels coming in through Digby Gut to Digby and other ports of the Annapolis Basin. Dr. DuVernet reports that during the 10½ months since his appointment 11 vessels have been inspected. No quarantinable disease was found.

Sydney, N.S.—Vessels inspected, 112; no quarantinable disease.

Louisburg, N.S.—Vessels inspected, 40. No disease.

Chatham, N.B.—Vessels inspected, 41; persons inspected, 1,058. No quarantinable disease.

Charlottetown, P.E.I.—Vessels inspected, 4. No inspection of vessels from the neighbouring province has been required during the year.

William Head, B.C.—Vessels inspected, 162; persons inspected, 36,318. Three vessels were quarantined on account of smallpox. The last came in yesterday with one case amongst the saloon passengers and one amongst the steerage.

The diseases reported at the Station were smallpox, diphtheria, chickenpox, mumps, enteric fever, and beri-beri.

Two vessels had had cases of plague on board, and two vessels had had cases of cholera on board between Hong Kong or Shanghai and Japanese ports.

The saloon passenger detention building is being bettered by addition of new bath rooms and closets, laundry, quarters for stewards in attendance, and the installation of hot water heating for the main building.

General repairs and some improvements have also been carried out.

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Victoria, B.C.—No vessels required inspection at this port during the year.

Vancouver, B.C.—Vessels inspected, 1. No quarantinable disease.

Portable sulphur dioxide disinfecting appliances have been provided for the ports of Victoria and Vancouver as referred to before in my report.

Prince Rupert, B.C.—No quarantinable disease. The new wharf at the station is practically complete.

Tracadie Leper Lazaretto, N.B.—Patients at present, 21: 11 males and 10 females. Seventeen are of French Canadian, two of English, one of Icelandic and one of Russian origin. No deaths and no fresh admissions during the year. Treatment with Nastin and Chanmoogra oil is being further tested.

D'Arcy Island Leper Lazaretto, B.C.—Four Chinese lepers were admitted during the year, one died at D'Arcy Island. The other three were deported to China under the immigration regulations.

Public Works Health Act.—Your inspector for eastern Canada under this Act, Mr. Charles A. L. Fisher states that the year has been again an exceptional one in the almost non-appearance of contagious and infectious diseases among the men on the works coming under his inspection, except 8 cases of enteric fever in some of the camp hospitals.

He reports that he has found the medical service given to be complete, and the sleeping quarters and boarding of the men to be fully equal to the very good conditions in that way reported previously.

Your inspector for western Canada, Dr. A. E. Clendenan, reports that the volume of work has greatly increased during the last three years with more than ever in prospect for the next twelve months. He reports that with few exceptions, the medical service has been up to the requirements of the Act, and bona fide complaints are few. Camp sites have been nearly always wisely chosen, with a view to drainage and water supply, as well as convenience to the work.

The general health conditions have been exceptionally good.

On all work there were 17,946 employed at the time of inspections.

I have the honour to be, sir,

Your obedient servant,

F. MONTIZAMBERT, M.D.,

Director-General of Public Health.

The Honourable

The Minister of Agriculture,

Ottawa.

APPENDIX No. 2.

(G. E. MARTINEAU, M.D.)

GROSSE ISLE, QUE., March 31, 1913.

SIR.—I have the honour to submit this my annual report to March 31, 1913, as medical superintendent of the Grosse Isle Quarantine Station.

During the season there were 384 vessels inspected and cleared, being an increase of 17 over last season. Of these only two were sailing vessels.

Two hundred and twenty-one of these vessels were passenger boats which class comprised 58 per cent of the total.

There were inspected of all classes of passengers and crews 205,549 persons, being an increase of 12,235 over last year, and about 10,000 over any previous year.

They were divided among the various classes as follows:—

Cabin	6,292
Intermediate	45,127
Steerage	107,597
Cattlemen	165
Crew	51,437
Stowaways	59

Infectious or contagious diseases were reported or discovered on vessels arriving at Quarantine on 108 occasions, as compared with 102 last season.

The diseases so reported or discovered were: variola, scarlet fever, diphtheria, measles, rotheln, varicella, mumps, enteric fever and dysentery.

On one occasion a steamer arrived at quarantine with a very suspicious case of cholera on board.

Variola was discovered on two occasions, May 26, on the ss. *Tunisian*; and on June 26, on the ss. *Pretorian*.

Every passenger steamer coming up the St. Lawrence landed infectious diseases at quarantine on one or more occasions.

Deaths during the voyage were reported on 22 occasions due to the following causes: Lost overboard, 3; heart disease, 4; suicide, 2; epilepsy, 1; pneumonia, 5; cardiac failure, 1; nephritis, 1; gastritis, 1; broncho-pneumonia, 2; acute indigestion, 1; convulsions, 1.

Births during the voyage were reported on 10 occasions.

Twice, steamers arrived with passengers who refused to be vaccinated; they were landed for usual period of detention.

Over 700 people have been landed at healthy division for necessary period of observation; but a good many of these have been detained as long as 30 days, owing to new cases breaking out after landing.

One of the female passengers on ss. *Tunisian* gave birth to a child while detained for observation.

Vaccination exceeded 3,500.

Suspicious case of Cholera.—SS. *Pretorian*, Capt. Hamilton, sailing from Glasgow on July 12 with 57 intermediate, 96 steerage passengers and 121 crew, arrived at quarantine on July 22, with on board a member of the crew ill with symptoms resembling those of Asiatic cholera. The history of that case prior to its arrival at

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quarantine was the following; Patient had been taken ill on July 18 with diarrhœa, vomiting; and this had lasted for the four days then elapsed. When first seen at quarantine, he was collapsed, had a weak rapid pulse and showed pale cheeks and blue lips with subnormal temperature. This case was looking so suspicious that, under the circumstances, we found it more prudent to satisfy ourselves with a bacteriological examination of the patient's stools. The results having been negative, the vessel was immediately released after a detention of 12 hours for such bacteriological examination. This case was simply gastro-enteritis, and having fully recovered, was discharged, from the hospital on July 27.

Smallpox.—S.S. *Tunisian*, Capt. Rennie, sailing from Liverpool on May 17 with 49 cabin, 330 intermediate, 1,059 steerage passengers and 277 crew, arrived at quarantine on May 26. On making the inspection of steerage passengers we discovered a case of smallpox which was immediately transferred to quarantine hospital. All exposed passengers (538) and crew (320) have been landed for a quarantine of observation, and compartments on board occupied by these thoroughly disinfected. Everybody on board was also vaccinated as usual and the vessel released and permitted to proceed after a detention of 17 hours for those formalities.

Two new cases broke out amongst people landed and detained under observation. The first one being on the 11th June with a member of the crew, and the other one with a foreigner passenger on the 16th of the same month. Both patients were at once transferred to smallpox hospital for treatment.

On the 13th June, 359 of the passengers who had been successfully vaccinated and thoroughly disinfected at quarantine were released; all the rest being kept under observation on account of the new case that had developed. On the 23rd June, 137 detects who had had no communications whatever with the second case that had broken out were released; and the balance on the 19th July. All cases of smallpox having fully recovered were discharged from hospital on the following dates: July 9, July 23 and August 12.

The second case of smallpox found on board vessels was discovered amongst steerage passengers of s.s. *Pretorian* which sailed from Glasgow on June 17 with 138 intermediate, 103 steerage passengers and 112 crew, and arrived at quarantine on June 26. All exposed steerage passengers (103) and crew (34) having been landed for usual period of detention, compartments occupied by them thoroughly disinfected and everybody on board vaccinated, this vessel was released after a detention of nine hours.

There were also landed from that steamer 14 firemen who refused to be vaccinated.

No other cases having developed amongst passengers detained under observation they were all released on July 14. Patient having fully recovered was discharged from the hospital on August 6.

The year has still been a very busy one at the station, especially at the hospital where we constantly had to treat a number of patients varying from 25 to 300 at the time.

Preventive treatment by serum has been given to 357 passengers.

Four hundred and fifty-nine bacteriological examinations with many other analysis have been made at the laboratory during the season.

The total number of admissions at the hospital being 947 which is an increase of 109 as compared with last year.

There were 13 deaths and one premature birth.

Deaths were due to following causes or diseases: Measles, 3; diphtheria, 1; diphtheria complicating scarlet fever, 3; scarlet fever, 2; broncho-pneumonia, 1; broncho-pneumonia complicating diphtheria, 1; meningitis complicating scarlet fever, 1; inanition, 1.

Diphtheria.—Quite an epidemic of this disease threatened to spread over the hospital this season on account of lack of accommodation for the great number of patients that were therein at the time.

On November 6, s.s. *Polanza* arrived at quarantine with many cases of different kinds of infectious diseases, especially of diphtheria. The hospital was at the time so full up with patients that we had to use tents to extend accommodation to some of them. It was thus difficult not to say impossible for us to prevent communications between the different groups, the consequence being that the malady began then to spread rapidly. I instantly removed to the western end of the island all those persons who had not had the disease, and kept them there until all danger had disappeared.

With many precautions and injections of anti-diphtheritic serum we positively succeeded to stop the spread of the disease and to stamp it out entirely.

This is another fact that will show the necessity of having a new hospital built immediately.

Circular Letters.—Letters drawing attention to special cases have been received during season on the following dates: June 13, re Plague bacillus found on steamer from Calcutta bound for Trieste. June 20, re Bubonic plague at San Juan, Porto Rico; and August 10, re Bubonic plague at Liverpool.

The inspection of vessels from those different places have been the subject of special care.

Quarantine Staff.—Dr. L. F. Lepage, who was appointed this year as Medical Quarantine Officer at the Rimouski substation, has been, by your decision, instructed to come up on the mail steamers and make medical inspection between Rimouski and Grosse Isle. This has had for effect to reduce to a minimum the delay caused to those vessels at quarantine; as we only have now to land the quarantinable diseases without making further inspections.

The addition to the staff of another Medical Officer at Grosse Isle has been also of great help in giving dispatch to steamers, and no doubt must have been appreciated by the steamship companies.

The arrangement for our crews to live on board their respective vessels may also be regarded as an important improvement in the service. This tends to give quick dispatch to steamers; the crews being from that fact always on the spot ready for duty at the first call.

Improvements.—A great step has been made this year towards equipping our station with modern buildings, &c., which will prove most convenient to meet emergencies at any time, and will contribute also to avoid complaints from the part of passengers as well as of steamship companies.

The most important improvements consisted in the erection of a new detention building for the first-class passengers; the erection of a laboratory; the extension of western wharf and new buildings for medical assistants and hospital nurses. These works are not quite completed yet, but it is expected that they will be early next season.

The new laboratory will give our bacteriologist every facility to carry out properly his work throughout the whole season. A complete set of most modern laboratory appliances, &c., will be installed therein, and we will then have an equipment of inestimable value for the diagnosis of infectious diseases as well as for any other kind of chemical and bacteriological work.

When the first-class passengers' building is completed according to our plan, we will have at our disposal one of the most modern buildings of the kind to accommodate these.

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The addition of a new 200 feet length to the western wharf is not also the least improvement which has been carried out at this station this year. This was recognized as a great necessity since long ago. While offering for the present a far safer shelter to our quarantine boats, it is, I have reason to hope, a first step towards the realization of the construction of a deep-water wharf. I may perhaps be permitted to say here that another length of about 200 by 100 feet put across the end of that actual wharf so as to form a 'T' with two solid piers of 25 feet square at about 100 feet distance from each end of crossing head would be sufficient, I believe, to allow any steamer detained in quarantine to moor alongside of it. This would reduce to its minimum the delay caused to infected steamers which have to land their passengers, baggage, provisions, etc., and which have to depend at present upon our small quarantine boats to do that work. The disinfection of steamers could also be carried out more promptly, and I am sure that this would be beneficial to both shipping companies and quarantine service.

Requirements.—As stated above, one of the most urgent needs is unquestionably the immediate construction of a new hospital so as to give better accommodation and comfort to the patients, who are always increasing in number every year; and also prevent thereby the spread of the contagious diseases. Since a few years, the admissions at the hospital have been so numerous that we had to use tents to give shelter to some of them; but this is far from being satisfactory. An idea of the plan for this proposed new hospital has already been submitted to you, and I have reason to believe that this will be carried out next season.

The replacing of the *Alice* by a larger steamer fitted as an ice-breaker is also necessary for the station. This has been rendered expedient by the fact that since a few years the station closed only at end of December and two years ago was kept open all winter and our present boats not being built for winter navigation, were unable to continue the station service during that time. We had in those circumstances to apply at the Marine and Fisheries Department for an ice-breaker which was always inconvenient and detrimental to both Quarantine and Marine Services. It has further been experienced that the *Alice* is now too small to properly accommodate the ever-increasing number of immigrants which we have to transfer regularly from the Island to Quebec, together with station supplies, &c.

The old wooden sheds which have been built in 1848 should be replaced by modern brick buildings and appliances.

There are also many other works and repairs of first necessity to be attended to at once, the list of which has already been submitted to you.

We had the honour of your official visit this year, when you had the opportunity to convince yourself and note the different improvements required for this station.

The whole respectfully submitted.

I have the honour to be, sir,

Your obedient servant,

G. E. MARTINEAU, M.D.

Medical Superintendent of St. Lawrence Quarantine Service.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 3.

(N. E. MacKay, M.D., M.R.S.C.)

HALIFAX, N.S., March 31, 1913.

Sir.—I have the honour to submit my annual report for the year ended March 31, 1913.

There were 386 vessels inspected during the year, and 157,499 persons classified as follows:—Cabin, 5,286; intermediate, 22,178; steerage, 115,879; crew, 36,327; and 7 cattlemen.

Considerable disease occurred on board the following vessels in the order of their arrival: *Scandinavian* (measles), *Campanello* (diphtheria), *Virginian* (scarlet fever), *Barbarrasa* (scarlet fever), *Royal Edward* (measles), *Scotian* (measles), *Corsican* (measles), *Parisian* (scarlet fever), *Canada* (measles), *Gray Walkeree* (measles), *Tunisian* (measles), *Ultonia* (measles), *Mongolian* (measles), *Pomeranian* (measles), *Russia* (chickenpox and measles), *Uranium* (measles), *Empress of Britain* (measles), *Tunisian* (chickenpox), *Hesperian* (measles), *Potsdam* (measles), *Grampian* (measles), *Uranium* (measles), *Royal Edward* (measles), *Dominion* (measles), *Corsican* (measles), *Empress of Ireland* (measles), *Krusk* (scarlet fever), *Teutonic* (measles), *Dominion* (measles).

Sickness other than quarantinable diseases was found on the following vessels:—*Canada* (scrofula), *Birma* (pneumonia), *Russia* (pneumonia), *Voltorno* (appendicitis), *Empress of Ireland* (whooping cough and mumps), *Victorian* (mumps).

Death was reported to have occurred on the voyage on the following steamers: *Barstoe* (heart disease), *Birona* (2 deaths, causes not given), *Georgia* (accident).

There were 115 persons detained at the station hospital during the year, classified as follows:—Measles 31, chickenpox 7, scarlet fever 3, well persons (members of families of the sick) 78.

One of the children ill with scarlet fever developed middle ear disease which later involved the mastoid cells, and a *stücke-schwastege's* operation was performed and the child made a good recovery.

The following much needed improvements and repairs were made at the station during the year just ended: A residence for the engineer at the station was erected. The house is very nice and comfortable. The disinfecting building, the old hospital, and the steward's residence and outhouses were put in good state of repairs, and the disinfecting buildings and old hospital were painted. They look well. The steerage detention building, the first class detention building, the two small hospitals on top of the hill, the ambulance building and the water tank are being repaired. All the buildings are to be painted, I understand, as soon as the repairs are completed.

All the broken down plaster in the new hospital was repaired, and the woodwork and plaster inside the building were painted. The building is to be painted outside as well. The hospital is now in a fine state of repair and is a credit to the station. Then again a concrete tank was constructed where the soilpipe from the building empties into the harbour. This was necessary to protect the pipe against frost and also to improve the sanitary condition of the institution.

A road was constructed along the shore connecting the disinfecting buildings with the new hospital. This road lowers the grade considerably—it was made for this purpose—and make it much easier to haul coal from the wharf to the different buildings. In the old road the grade was so high that it was as much as a horse could do to haul the ambulance empty up the hill. The new road should be extended along the shore to the old (German) hospital.

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An ice-house should be erected at the station for our own use as well as for the use of the resident staff. It is much needed to keep perishable provisions always fresh.

During the year four steamers, owned by Messrs. Pickford & Black, and trading between this port and the West Indies were fumigated for rats, the holds with sulphur dioxide and the other apartments with formalin and permanganate of potash. In some of the steamers as many as 400 rats were killed.

The ss. *Cromarty* was fumigated for the Marine Department for smallpox and the crew were vaccinated, and bathed, and their effects disinfected with hot steam and formalin and permanganate of potash. This steamer running coastwise from St. John, N.B., brought a case of smallpox into port.

A new captain was appointed on the ss. *Mivona* on the first of January. Capt. Pye is a very capable master. He maintains good discipline, what was much needed, and he also sees that every member of the crew does his work.

We need a young fellow who would keep the captain's room, saloon, doctor's room, and bunks, neat and clean. We needed a man like this more than a new deckhand.

Occasionally we have some trouble with agents of immigration ships. To get rid of the expense of maintaining non-quarantinable diseases steamboat agents want us to take to the station every kind of disease. To carry their point a most absurd diagnosis is often made.

During the year we lost by death, Mr. John O'Neill, a most capable officer.

My assistant, Dr. V. N. MacKay, has done his work well. The nurse and matron, Miss Himmelman, is deserving of every praise for the way in which she keeps the hospital and looks after the sick. We have an ideal hospital.

I have the honour to be, sir,

Your obedient servant,

N. E. MacKAY, M.D., M.R.C.S.,

Quarantine Officer

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 4.

(R. C. RIDDICK, M.D.)

St. John, N.B., March 31, 1913.

Sir:—I have the honour to submit my annual report for the year ending March 31, 1913.

During the year just ended we have inspected at this station 149 vessels.

The total number of persons inspected were 37,911. Classified as follows: 1st cabin, 898; 2nd cabin, 5,129; steerage, 21,326; gentlemen, 26; crew, 10,338.

There were treated at our hospital during the year 32 cases, for the following diseases: measles, meningitis, typhoid fever, pneumonia and mumps. Two deaths occurred, one from broncho-pneumonia and measles, and one from marasmus.

We have now in our hospital one case of pneumonia, one of meningitis, and a number of cases of measles.

Improvements.—I might say that our new cottages, one for the bacteriologist, one for the boatman, one for the assistant caretaker, and a bacteriological laboratory, are in course of construction. Owing to the cold and stormy weather, and the lateness of the season in which the work was commenced, has hindered a speedy completion.

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A general overhauling in the plumbing of the different buildings has been done. Considerable shingling has been done. Our roofs were in a very bad condition owing to the salt air rusting off the nails in the shingles. The nails will not last more than eight or ten years. The new shingling was done with galvanized nails, which are also used in the shingling of our new buildings.

A new telephone cable has been laid, and is giving fairly good service, the old one gave out beyond repair.

Our water pipe gave out early in the fall, since then we have been getting our water by tug from the city, and pumping it up to the different buildings. I believe a new pipe is to be laid this coming spring, which I hope will solve the long needed water problem. A new concrete walk has been laid at the medical superintendent's house, and blasting of rock and grading on the roads have been done. We have a new ambulance, which has been of very great service.

Our most pressing need is a wharf out to low water, and a government owned boat. A wharf where our boat can lay with her crew on board, so as to be obtainable at all times. Many times as it is now it is impossible to get aboard the quarantine tug on account of the big seas running, and at low water often impossible. Several times this winter we have had to leave the patients on board the ship from one to two days before we were able to land them. Before we will ever be able to board vessels and bring the sick off safely and humanely, the wharf and boat I speak of will have to be furnished.

Quarantine Staff.—I am pleased to inform you of the splendid service given me this winter by Dr. J. J. Heagerty, in the way of boarding and general assistance for the good of our station; Dr. Heagerty is always ready and willing at a moment's notice, night or day. And being on the city side of the harbour, he could get the tug and board a vessel when the tug could not get to me on the Island. I am pleased to say he has saved the shipping men and quarantine service a great deal of inconvenience by his promptness and ability.

We had the pleasure and honour of you and your private secretary to visit us at this station during the last summer. And after your careful inspection of the station you found many needs and improvements necessary to have the work carried out in the interest of public health.

With the bright prospect of a new water pipe, a new wharf, and a new boat, I think I can safely say that these needs supplied, no word of complaint would be heard regarding our quarantine station.

I have the honour to be, sir,

Your obedient servant,

R. C. RUDDICK, M.D.,

Medical Superintendent, St. John Quarantine Station.

The Honourable the Minister of Agriculture,
Ottawa.

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APPENDIX No. 5.

(EDWARD DUVERNET, M.D.)

DUGBY, April 1, 1913.

SIR.—I beg to report that for the ten and a half months that this quarantine station has been established eleven vessels have been inspected, all of which were found to be free from infectious diseases, and were released from quarantine within two hours after arrival.

I have the honour to be, sir,

Your obedient servant,

E. DUVERNET, M.D.,

Quarantine Officer.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 6.

(WM. McK. McLEOD, M.D.)

NORTH SYDNEY, C.B., March 31, 1913.

SIR.—I have the honour to forward my report for the year ending March 31st, 1913.

During the year there arrived at quarantine anchorage for inspection 112 vessels - 96 steamships and 16 sailing vessels.

No quarantinable diseases were found on any of the vessels inspected.

I have the honour to be, sir,

Your obedient servant,

WM. McK. McLEOD, M.D.,

Quarantine Officer.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 7.

(D. A. MORRISON, M.D.)

LOUISBURG, N.S., April 1, 1913.

SIR.—I have the honour to submit herewith my report for this station for the year ended March 31, 1913.

The total number of ships inspected at this port for the year was 40. From the 6th of August, 1912, on which date I assumed charge of the station, to the 31st ult., I inspected 16 ships, having on board 1,731 persons, classified as follows:—

Seventy-eight cabin, 1,048 steerage, 1 stowaway, and 604 crew.

No quarantinable disease was found on any of the ships inspected.

I have the honour to be, sir,

Your obedient servant,

D. A. MORRISON, M.D.

The Honourable the Minister of Agriculture,
Ottawa, Can.

APPENDIX No. 8.

(J. BAXTER, M.D.)

CHATHAM, March 31, 1913.

Sir.—I beg leave to submit the following report for the year ending to-day. The number of vessels examined by me was in all 44, consisting of 31 steamers, 1 ship, 7 barques, 3 barquentines, 1 four-masted schooner, 1 petrol auxilliary schooner.

The number of men examined was 1,058.

There was found no quarantinable disease. Among the vessels there were two of the largest craft that ever were in the river, viz.: Ship *Nordfarrer*, 2,699 tons; ss. *Thode Fageland*, 2,826 tons.

I have the honour to be, sir,

Your obedient servant,

J. BAXTER, M.D.

The Honourable,
The Minister of Agriculture,
Ottawa.

APPENDIX No. 9.

(PETER CONROY, M.D.)

CHARLOTTETOWN, P.E.I., March 31, 1913.

Sir.—I have the honour to submit my report for the year ending March 31, 1913.

There was no case of contagious disease at the station during the past year.

The neighbouring provinces against which this island enjoys federal quarantine protection have been free during the past year from epidemic disease, and vessels from ports in these provinces were allowed pratique without inspection. There were four inspections of vessels from across the sea and West Indies.

The unusually stormy weather of the past season had the effect of compelling a number of sailing vessels, bound for this port, to seek shelter at different harbours of Nova Scotia and make customs entry there.

The winter steamers made regular trips to this port during the past season, excepting in an interval between the 10th of February and the 18th of March, when they were on the Georgetown-Pictou route. The steamers resumed their sailings to this port on March 18, and will now continue on this route until the regular opening of navigation.

The requirements of the service at the station are well supplied.

I have the honour to be, sir,

Your obedient servant,

P. CONROY, M.D.,

Inspecting Physician.

The Honourable
The Minister of Agriculture,
Ottawa.

APPENDIX No. 10.

(A. T. WATT, M.D.)

WILLIAM HEAD, B.C., March 31, 1913.

Sir,—I have the honour to submit this my report of transactions at William Head quarantine station for the twelve months ending March 31, 1913.

During the twelve months 162 vessels were inspected. There were 4,940 cabin passengers and 17,653 steerage passengers on these vessels and the members of the crews numbered in all 13,725.

Vessels were quarantined at three different times on account of smallpox. The *ss. Monteyale* arrived April 16, 1912, and reported that a case of smallpox had been discovered amongst Chinese steerage passengers shortly after leaving Japan, and that the patient had been at once isolated. During the first night in hospital the Chinaman had hanged himself. The body was buried at sea. The steerage from which this man had been taken was separated from other parts of vessel and owing to the fact that disinfection of compartment was possible and had apparently been thoroughly carried out, it was considered in view of this and the circumstance of the early isolation of the case that the period of detention might be dated from the day the disinfection was done on board vessel. After further precautionary disinfection here the steamer was released with the saloon passengers and such of crew as were found to be satisfactorily protected by vaccination. The steerage passengers and some of crew were held at station but no further case developed. The *ss. Roman*, a halibut vessel, was sent down from New Westminster on May 8, 1912, by the provincial health authorities, as a case of smallpox had been found amongst crew. The steamer was disinfected and all on board vaccinated. Then the vessel was allowed to proceed to fishing grounds. On returning all were in good health and were released. The expenses of disinfecting this vessel were met by the owners. At this date the *ss. Monteyale* is again in quarantine. The steamer arrived on the 30th instant and the report was given that one of saloon passengers had developed varioloid on the night of the 28th. On examination of steerage passengers one of Chinese was found also to have varioloid and to be showing much the same development. Both passengers had come on board at Hong Kong, on March 8, so that the infection presumably was from an exposure in one of the ports in Japan, possibly from an ambulant case amongst the stevedores. All passengers have been landed also a number of the crew and the vessel which is undergoing disinfection is upon completion to be released.

Cases of diphtheria were found on *ss. Monteyale*, arriving June 22, 1912, and on *ss. Murama*, arriving January 9, 1913. These cases were by arrangement treated at the city isolation hospitals at Victoria and Vancouver. One case of chicken-pox, a child arriving by *ss. Inaga Maru*, on July 4, 1912, was treated at hospital here. This case and the two cases of smallpox now here are the only cases of infectious disease which have been cared for at the hospital at William Head during the year. Cases of mumps, typhoid fever and beri-beri have been found amongst crew of different vessels but as they were convalescing and being properly cared for and isolated they were not landed here.

Two vessels had had cases of plague on board and two vessels had had cases of cholera on board between Hong Kong or Shanghai and Japanese ports. In each instance the measures taken at the quarantine stations in Japan where the cases were discovered, prevented further outbreak.

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There has been less disease in Hong Kong and districts around Canton latterly than has been the case for a number of years past. In consequence the routine disinfection of Chinese steerage passengers and their effects has been discontinued by your order given December 20, 1912. Passengers from Japan still undergo the routine disinfection.

There have been several improvements commenced or carried to completion during past twelve months. The saloon passenger accommodation is being bettered by addition of new bath rooms and laundry, quarters for stewards in attendance, and by installation of a system of hot water heating for the main building. A hall which will be available for various purposes, such as church service or for entertainments or for other additional accommodation is being built close to. Bath rooms are also under contract at the disinfection building, and some of the wood partitions are to be replaced by brick walls. When this work is completed the building will be more sanitary and more proof against fire. Four extra baggage cars have been purchased. These will permit of baggage being handled more readily. A 20 h.p. gasoline plant has been installed for electric lighting of station. This will be cheaper to operate than the steam plant, which now need be run only when the full lighting capacity is called for, when all buildings are occupied at a time of quarantine. New ranges have been put in at the various detention buildings and at some of the other buildings where needed. Slates have been put on roof of superintendent's residence and on smallpox hospital, and some painting has been done to these buildings and to sheds on wharfs. General repairs have been effected at wharfs, and new fender piles driven. Some repairs to roads have been made and a new bridge built.

D'Arcy Island Lazaretto was used for accommodation of four Chinese lepers while awaiting deportation under the Immigration Act. The death of one man occurred at the island, but the other three cases were deported on proper arrangements being made for their accommodation. The expense of this and of their detention at the island were met by the steamship companies who had brought these Chinese to Canada.

The station was visited by yourself during the summer, and also by Dr. F. Montizambert, Director General of Public Health, and the further needs of the station inquired into.

I have the honour to be, sir,

Your obedient servant,

A. J. WATT, M.D.,

Supt. B.C. Quarantines.

The Honourable the Minister of Agriculture,
Ottawa.

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APPENDIX No. 11.

(R. L. FRASER, M.D.)

VICTORIA, B.C., March 31, 1913.

Sir.—I beg to submit my report for the year just ended. Coasting vessels being exempt from quarantine regulations. No inspections were made at this port during the year.

On 14th instant I visited William Head station to confer with Dr. Watt *re* disease on ss. *Monteagle*.

I have the honour to be, sir,

Your obedient servant,

R. L. FRASER, M.D.,

Quarantine Officer.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 12.

(J. D. HUNTER, M.D.)

VICTORIA, B.C., April 10, 1913.

Sir.—I beg to submit my report as bacteriologist at the William Head quarantine station for the year ending March 31, 1913.

The laboratory has not been required for government purposes during the year, but everything therein is in order and in readiness for any work that may be required.

In May, 1912, at the request of the superintendent, I visited the plague laboratory at Seattle, Washington. While there I was extended every courtesy by Dr. Lloyd, the official in charge and under his direction was given great assistance in studying the morphology, &c., of the *B. Pestis*.

I have the honour to be, sir,

Your obedient servant,

J. D. HUNTER,

Bacteriologist and Assistant Medical Officer.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 13.

(L. N. MacKECHNIE, M.D.)

VANCOUVER, B.C., April 26, 1913.

Sir,—I have the honour to submit as follows, my report for the year ending March 31.

One vessel has been examined and no case of infectious or contagious disease was found.

A sulphur fumigator has been received and is under cover at the entrance of No. 2 freight shed of the Canadian Pacific Railway Company by their permission.

I have the honour to be, sir,

Your obedient servant,

L. N. MacKECHNIE, M.D.,

Quarantine Officer.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 14.

(H. ERNEST TREMAYNE, M.D.)

PRINCE RUPERT, April 1, 1913.

Sir,—I have the honour to make my annual report for the year ending March 31, 1913.

No quarantinable diseases of any kind have arrived at this port.

I am glad to inform you that the wharf at the station is practically completed.

Owing to the early completion of the Grand Trunk Pacific railway, and the establishment of a direct line of steamships with the Orient, it will be necessary to proceed very shortly with the erection and equipment of the necessary buildings at the station, in order to have everything in readiness when required.

I have the honour to be, sir,

Your obedient servant,

H. ERNEST TREMAYNE.

The Honourable
The Minister of Agriculture,
Ottawa.

APPENDIX No. 15.

(J. A. LANGS, M.D.)

TRACADIE, N.B., March 31, 1913.

Sir,—I have the honour to submit this my annual report as medical superintendent of the lazaretto at Tracadie, N.B.

There are at present 21 patients in the institution, 11 males and 10 females.

No deaths and no admissions during the year.

Seventeen of our patients are of French, two of English, one of Icelandic and one of Russian origin.

Their ages vary from nine to eighty-one years. They have generally been exempt from intercurrent illness but for the exception of one case of erysipelas and one of erythema nodosum.

I have as in former years, visited every four months, those sections of the province, which furnish from time to time, our patients for the lazaretto, and I am pleased to say, that the families suspected and so visited are all free from the disease.

The Dr. Deycke's nastin therapy followed here since May, 1911, is giving fairly satisfactory results.

I had at first fifteen patients to treat and give between thirty-six to sixty-eight injections of nastin to each. With this, as with any other treatment, a few patients attributed intercurrent illness to its use, and refused it, after a few injections.

As it was most earnestly recommended by the discoverer, to give the nastin treatment, the form of a chronic intermittent treatment, I have followed his advice, and think it the proper mode to use it.

Generally the patient suffers from ten to thirty minutes, from the burning sensation produced by the medicine at the place of the injection, but after this abates, he has a general sensation of warmth, feels stimulated and stronger.

With mostly all patients there is an elevation of temperature for a few hours after the injection, which varies from one to two degrees.

Old anaesthetic cases are very little helped by NASTIN, but we have discharged two patients who were at the early stage of this type of leprosy. One, a man of thirty-nine, left a year ago, he received only twenty injections of nastin. I have visited him twice since and he remains well. The other case, a man of sixty-seven, left in November last, he had received sixty injections. I saw him recently and found him in good health, free from the disease. Both had been taking the old treatment, chaulmoogra oil, strychnine, &c.

Another case of mixed leprosy is that much improved that I have great hopes to discharge him in the near future.

With five nodular cases, there has been, for a certain time, arrest of the leprous process with some retrogression of the leprous symptoms. Three of these are certainly better to-day, the two others are in the last stage of the disease.

With this treatment by nastin the patients have been taking the chaulmoogra oil, strychnine, &c., and would not stop it, only when it interferes with their digestion. Thus the old treatment is still the most popular.

In conclusion, nastin has some beneficial effect on some of our cases of leprosy and I am still using it for a few of them.

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The patients are supplied with musical instruments and some games, to help them pass away the time and divert their thoughts from themselves. They are taking advantage of these amusements and seem to enjoy them. The Sisters make every effort to contribute to their physical and moral comfort and respond to many calls by day and by night.

I have the honour to be, sir,

Your obedient servant,

J. A. LANGIS, M.D.

To the Honourable
The Minister of Agriculture,
Ottawa.

APPENDIX No. 16.

(CHAS. A. L. FISHER, J.P.)

Montreal, March 31, 1913.

Sir,—I have the honor to submit this my report for the twelve months ended March 31, 1913, as Public Works (Health) Inspector, for the territory from Winnipeg east to the Atlantic ocean.

During that period I have personally visited and inspected all such works covered by the Public Works (Health) Act, 1899, as have been brought to my notice.

The term has again been an exceptional one, in the almost non-appearance of contagious and infectious diseases among the men employed on the various public works of the Dominion, coming under my inspection but there have been a good many cases of typhoid fever in the camp hospitals, mostly on the new construction work of the Canadian Northern railway, east from Port Arthur.

I am pleased to be able to report again, that on my several tours of inspection of the public works of the Dominion in my district for the past year, I found the medical service given to be complete, and the sleeping quarters and boarding of the men to be fully equal to the very good conditions in that way reported previously.

The number of public works coming under the regulations of the Act, in the territory east of Winnipeg, have been comprised exclusively of railway construction, and include the Canadian Northern Railway Tunnel under the Mountain at Montreal.

The following is a detailed report of the works I have personally visited and inspected during the past twelve months, as coming under the regulations of the Public Works (Health) Act, 1889:

NATIONAL TRANSCONTINENTAL RAILWAY.

This road is being built by the Dominion Government, and at present all the sections between Winnipeg and Moncton, N.B., are under construction, or have been completed.

I am pleased to report that on my visits to the works on said sections I found, as previously, excellent hospital accommodation provided, and a duly qualified physician as district medical supervisor over each section of camps, which could be conveniently covered by him within the requirements of the regulations.

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With the exception of some cases of typhoid fever, there had been no outbreak of contagious diseases, and the health of the men had been excellent.

I give below the extent and location of the camps, with other particulars of the works carried on by the various sub-contractors:

Superior Junction Section.—From Superior Junction east for 150 miles to Junction of the Western section let to Messrs. E. F. & G. E. Fauquier. This is under contract to Messrs. O'Brien, Fowler & McDougall Bros., who have their headquarters at Superior Junction, Ont.

J. E. Joseph, of Pembroke, Ont., is the chief medical officer for the contractors, and J. M. McGrady, M.D., of Port Arthur, is the medical officer in charge of the work.

Superior Junction Camps.—Six gravel pits operated by the contractors, and the Pembroke Contracting Company, and Messrs. Morris, Mackie & Co., being the sub-contractors, also a steel gang operated by the chief contractors.

About 900 men were employed, who were located in eight camps, and housed and boarded in log and board dwellings by the contractors and sub-contractors, and the steel gang in boarding cars.

There were no cases of contagious disease, and the health of the men and the sanitary conditions were good. There have been a few minor accidents, but no deaths. Two good hospitals are maintained on the work, one located about twelve miles from Superior Junction, and the other towards the east end of the contract. W. Graham, M.D., and G. E. Denison, M.D., have been the medical officers in charge, with John Brandon, M.D., as general medical supervisor.

Nipigon Section.—From the east end of O'Brien, Fowler & McDougall Bros.' contract, east 75 miles. This is under contract to Messrs. E. F. & G. E. Fauquier, of Ottawa, who have sub-let it to the Nipigon Construction Company, Limited, who have their headquarters at Nipigon, Ont. This work is about completed.

Missanabie Section. This is under contract to Messrs. M. P. & J. T. Davis, of Quebec, who have sub-let it to Messrs. O'Brien, McDougall & O'Gorman, the contract covering the route from the east end of the Nipigon work, for 150 miles further east, to the junction of the Abitibi work, under contract to Messrs. E. F. & G. E. Fauquier.

Missanabie Camps.—There were six sub-contractors on this work, and about 1,000 men employed, who were located in nine camps, and housed and boarded in wooden buildings by the sub-contractors.

There were two cases of measles and three deaths, two by jumping from train, and one smothered by falling earth. The general health of the men was excellent, and the sanitary condition of the camps was good. There were two hospitals on the work. A. Henderson, M.D., of Cochrane, Ont., is the chief medical officer, and he had two assistants, one in charge of each hospital, as follows: Dr. Kinsey and Dr. Lipman.

Abitibi Section West.—From about eight miles west of the Abitibi river, crossing westerly for 100 miles. This is under contract to Messrs. E. F. & G. E. Fauquier, of Ottawa. Access thereto is had from Cochrane, Ont. A. Henderson, M.D., is the chief medical officer of the work, with residence at Cochrane.

Abitibi West Camps.—E. F. Fauquier is the sub-contractor. About 300 men are employed, who are located in five camps, extending over 50 miles of the work, and they are housed and boarded in log buildings by the sub-contractor.

There were two deaths from accident. The health of the men and the sanitary conditions of the camps were good. There was one well-fitted hospital on the work, the chief medical officer, Dr. Henderson, residing at Cochrane, and visiting the camps adjacent. This section is completed.

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Abitibi Section East.—From about eight miles west of the Abitibi river, crossing easterly for 150 miles. This section is under contract to the Grand Trunk Pacific Construction Company, and was sub-let by them to Messrs. Foley, Welch & Stewart, who had their headquarters at Cochrane, Ont.

Only one hospital has lately been maintained on the work. John McCombe, M.D., is the chief medical officer, with two district medical officers as assistants.

Abitibi East Camps.—Messrs. Foley & Co., and Shea & Egan were the sub-contractors, with three sub-contractors under them.

About 400 men were employed, who were located along the line in four camps and several house cars, and boarded and housed in wooden buildings and cars by the sub-contractors. There were two deaths, one from accident and one from drowning. There were two cases of erysipelas. The general health of the men and the sanitary conditions of the camps were good. One excellent hospital was maintained for these camps, located at Peter Brown Creek, within easy access to the construction works and camps. D. R. Cameron was the resident medical officer latterly on the work, and had the assistance of Dr. L. M. Dawson in the early part of the season. This work is now about completed.

Ontario and Quebec Section.—From the easterly limit of the Abitibi East Section, sub-let to Messrs. Foley, Welch and Stewart, to a junction with the Quebec West Section at Weymontachene, Que., about 250 miles. This work is under direct contract to Messrs. Macdonnell & O'Brien, and entrance thereto is over their other contracts for the Transcontinental, lately completed by them from Hervey Junction, Que. John McCombe, M.D., is the chief medical officer of the work.

Ontario and Quebec Camps.—Messrs. F. Munro & Co., Macdonnell Co., M. McCarthy, C. L. Hervey, Craig and Thompson, Doheny & Gordon, Frank Waters, Hugh Grant, H. McKinnon, Donovan & Co., O'Brien & Martin, Shea & Egan, The A. J. Hill Co., and Lynn and Brennan are the sub-contractors.

About 3,350 men are employed, who are located along the line in twenty-four camps, and boarded and lodged in wooden buildings by the sub-contractors.

There were two cases of erysipelas and one of typhoid. There were eight deaths, one being from typhoid, one by falling off train, two drowned, one of erysipelas, one killed by derrick, one killed by dump car and one accident. The general health of the men and the sanitary conditions of the camps were good.

Three hospitals were maintained for these camps; No. 1, being a very large main hospital, with four separate wards, and located alongside the track; No. 2, is located at the end of steel; No. 3 is located at Peter Brown creek, as convenient as possible for the west camps of the work.

Doctors Thos. H. Jackson, J. P. Benny and D. R. Cameron, are the district medical officers of the work, one residing in each hospital. John McCombe, M.D., the chief medical officer of the work resides at the hospital, west from La Tuque, and takes charge of and gives the work his general supervision.

CANADIAN NORTHERN ONTARIO RAILWAY.

Port Arthur, Sudbury Section.—This road is being built by Messrs. Mackenzie, Mann & Co., from Port Arthur to Ruel, Ont., a distance of about 550 miles and when completed is to form part of the Canadian Northern Transcontinental line from the Pacific to the Atlantic oceans.

Messrs. Foley, Welch & Stewart and the Northern Construction Co., are the chief contractors. Messrs. Mackenzie & Mackenzie, M.D.'s are the chief medical officers of all the work, and have their headquarters at Winnipeg.

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Loon Camps.—Port Arthur to Red Rock, a distance of 60 miles. P. T. Walsh was the contractor, with twelve sub-contractors, each for short distances under him about 1,020 men were employed, who were located in twelve camps distributed along the route, and were housed and boarded in log or wood buildings by the various sub-contractors.

There had been no contagious or infectious disease, or serious accidents and no deaths. The general sanitary conditions and the water supply were only fair, but the general health of the men had been good.

The St. John Hospital at Port Arthur and the Nipigon Hospital at Nipigon, these being at each end of the work, were used as there is rail service over the Canadian Pacific line.

Austin Evans, M.D., was the district medical officer on the work, which is now completed.

Nipigon Camps.—From Nipigon northeast about 90 miles. The Nipigon Construction Co. were the contractors with eleven sub-contractors under them. About 1,500 men were employed, who were located in fourteen camps, distributed along the route and who were housed and boarded in wooden buildings by and with whom they were employed.

There were twenty-five cases of typhoid, four fatal accidents, and nine deaths, two from explosion, three from typhoid pneumonia, three from land slide and one from drowning.

There were three hospitals, one at Nipigon, mile 74, one at Orient bay, mile 114, and one at Paek Pine, mile 142.

The following were the resident medical officers at the hospitals during the year: A. H. Veitch, C. A. McPherson, M. Thompson, R. Stirrett, Frank Kelly, E. Evans, and E. C. Hanna, all qualified medical men.

Ninigoo Camps.—From mile 155 to 200, Foley Bros. and the Northern Construction Co. were the contractors, with several sub-contractors under them. About 1,700 men were employed, who were located in twelve camps situated along the route, and were housed and boarded in wooden buildings, by the contractors or their subs.

There had been no contagious disease, but there were three deaths, one from drowning, one from drinking wood alcohol, and one from heart failure.

The sanitary conditions and the general health of the men had been good, and the water supply excellent.

There were four hospitals maintained for these camps, one at mileage 156, one at Ninigoo, mileage 162, one north from Chapleau at mileage 192, and one at Long Lake, mileage 199.

There were four qualified medical officers for these camps, one residing at each hospital.

Messanabic Camps.—From mile 209 to 265, Foley Bros. and the Northern Construction Co. were the contractors, and had camps located along the route. About 275 men were employed and were housed and boarded in wooden buildings by the contractors.

There had been no contagious diseases, or serious accidents, and but one death caused by cerebral abscess.

There were two hospitals maintained, one at mile 233, and one at mile 256. The resident medical officers on the work during the year were Edgar Bissell, N. J. Barton, E. C. Hanna, and Russell Demers, all qualified men.

Hobon Camps.—From mile 265 to mile 320, Foley Bros. and the Northern Construction Co. were the contractors, and had camps located along the route.

About 650 men were employed, who were housed and boarded by the contractors in wooden buildings.

There was one tubercular patient, who was sent to a sanatorium. There were no serious accidents, and no deaths. A good hospital was maintained at mile 300, and C. R. Young, M.D. resided thereat.

Bremner Camps.—From mile 320 to mile 362, Foley Bros. and the Northern Construction Co. were the contractors, and had three camps along the route. About 275 men were employed, who were lodged and boarded in wooden buildings. There had been no serious accidents, diseases, or deaths. A good hospital was maintained at mile 362, and R. A. Dick, M.D. was the resident medical officer.

Ruel Camps.—These are at the extreme easterly end of the whole contract, and the work runs west from Gowganda Junction, the terminus of the present branch line being operated west from Sudbury, Ont. Foley Bros. and the Northern Construction Co., were the contractors, and had eighteen camps located along the route.

About 1,550 men were employed, who were housed and boarded in wooden buildings by the contractors.

There had been no cases of typhoid, no other infectious diseases, there were two serious accidents, and three deaths, from two dynamite explosions. The general sanitary conditions were fair, the water supply excellent and the general health of the men, good.

There were three hospitals maintained on the work, one at mile 91, one at mile 105, and one at mile 125. The following qualified medical officers were resident on the work, during the year, viz: E. J. Finnerty, Thomas Phipps, W. W. Smith, Wm. Cody, L. R. Yealland, and D. C. Richardson.

Section between Sudbury and Ottawa.—This is another part of the Transcontinental line, and is under contract from Sudbury to Pembroke, Ont., by Angus Sinclair, C.E., as chief contractor.

J. Mitchell, M.D., of Toronto, is medical superintendent of this section.

Onwatin Camps.—There were six sub-contractors, having in all seven camps, and employing about 500 men, who are housed and boarded in wooden buildings by the said sub-contractors. There were three cases of measles. There were two serious accidents, with two deaths, one from dynamite explosion, and one man killed by falling rock. The general health of the men, the sanitary conditions of camps, and the water supply were good.

The St. Joseph's Hospital at Sudbury was used. W. N. Robertson, M.D., C.M., was the district medical officer of the camps.

North Bay Camps.—There were three sub-contractors with one camp each, and about 450 men were employed, who are housed and boarded in wooden buildings. There had been no contagious and infectious diseases. There were four deaths from accidents. The health of the men and the general sanitary conditions of camps were good.

Dr. Campbell, of North Bay, was the District Medical Officer of these camps.

Mattawa Camps.—There were three sub-contractors on this work, with three camps. About 450 men were employed who were housed and boarded in wooden buildings by the sub-contractors.

There were three cases of syphilis, two of gonorrhœa, one of tuberculosis, but no deaths or accidents, the general health of the men being good, and the sanitary conditions fair. There was a small hospital on the work, and one at Mattawa for major cases. Doctors W. R. Bateman and D. G. McKay were the resident district medical officers of the work.

Kills Camps.—There were three sub-contractors on this work, with six camps. About 300 men were employed, who were housed in board camps, and catered for by the sub-contractors.

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There were no serious diseases, deaths or accidents, the sanitary conditions and the general health of the men being good. The hospital at Mattawa was used if necessary. Doctors Malcolm Kinsella and Ivan Annett, of Killis, were the medical officers of the work.

CANADIAN NORTHERN QUEBEC RAILWAY.

Tunnel under Montreal Mountain.—This is a part of the work in connection with a Canadian Northern Transcontinental railway, and will give that road a western entrance into the city of Montreal. Messrs. Mackenzie, Mann & Co. of Toronto, Ont., are the chief contractors, and Mr. Sidney P. Brown is the chief engineer in charge of the work.

About 600 men are employed, most of whom live in their own houses, and the balance in houses provided by the contractors. The men are boarded by the Consolidated Boarding and Supply Company, of Montreal.

There have been no contagious diseases, fatal accidents or deaths. An emergency hospital is maintained at the West Point Camp. Doctors Mackenzie & Mackenzie, of Winnipeg, are the chief medical officers, and J. A. Charrois, M.D., of Montreal, is the medical supervisor of the men employed.

THE ALGOMA CENTRAL AND HOBSON BAY RAILWAY.

Main Line Extension. From MILONS to a connection with the Canadian Pacific railway at Hobon, Ont., thence to a connection with the Canadian Northern railway at Oba lake, and thence to a connection with the Transcontinental railway at Hearst, Ont. The Superior Construction Co., Ltd., of Sudbury, Ont., T. J. Kennedy, of Sudbury, Ont., and B. C. W. McDevity, were the chief contractors.

About 1,500 men were employed, who were housed by sixteen camps distributed along the route, and were housed and boarded in wooden buildings by the said contractors or the Federal Commissary and Supply Co.

There were three cases of erysipelas, two serious accidents, and two deaths from explosions.

The general health of the men, and the sanitary conditions of the camps were good.

Four good hospitals were maintained on the work, one at Oba lake, one at Hobon, one at camp 3, and one at Hearst. R. McLean, M.D., of Sault Ste. Marie, Ont., is the chief medical officer, and had the following assistants during the year as district medical officers on the work, viz: S. M. McDermott, W. A. Strickland, and D. MacKnight and G. B. Kindrick.

All work on this line has been closed down since last November.

Algoma Eastern Branch. From Little Current, Ont., north to Whitefish, etc. The Superior Construction Co. were the chief contractors.

About 200 men were employed and were housed and boarded in wood buildings by the contractors. There was one case of typhoid, two serious accidents and two deaths therefrom. The general health of the men and the sanitary condition of the camps were good.

The General Hospital at Sudbury was used. Jas. R. McLean, M.D., was the chief medical officer, and Lloyd L. Buck was the resident medical officer on the work.

All work on this branch was closed down last November.

On the above public works in the territory east from Winnipeg, Man., during the term reported on, there was an average of 17,020 men employed, with 46 qualified medical officers in charge of camp hospitals and camps.

Cases of contagious and infectious diseases—	
Measles.	5
Gonorrhœa.	4
Tuberculosis.	2
Typhoid fever.	29
Erysipelas.	10
Syphilis.	1
Deaths and causes as under—	
Syphilis.	1
Erysipelas.	1
Cerebral abscess.	1
Heart failure.	2
Tuberculosis.	2
Typhoid fever.	3
Drowning.	6
Killed by derrick.	1
Accidents.	14
Gasoline explosion.	2
Drinking wood alcohol.	1
Crushed by cars.	1
Falling off train.	2
General debility.	1
Dynamite explosion.	10
Total deaths as above.	48

In closing this report for the past twelve months, I am pleased to be able to draw your attention to the fact that although the number of men employed shows about the same as last year, the cases of typhoid fever have been decreased almost one-half, and the deaths fewer than those reported in the previous year. This I consider as due to the sanitary conditions on which the camps were kept, and the care and attention given by the contractors and medical officers in carrying out sanitary conditions, and such clauses of the regulations of the Public Works (Health) Act, 1899, as applied thereto.

In concluding this report, I beg to again suggest for your attention, that for the benefit and convenience of contractors and district medical officers of camps, and for the welfare of employees on public works, that the regulations at present applying under the said Act, be amended within as little delay as possible.

I have the honour to be, sir,

Your obedient servant,

CHAS. A. L. FISHER,
Public Works Health Inspector.

The Honourable
The Minister of Agriculture,
Ottawa, Ont.

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APPENDIX No. 17.

(A. E. CLENDENAN, M.D.)

EDMONTON, ALTA., April 1, 1913.

SIR.—I have the honour to submit the following report for the year ending March 31, 1913, as inspector under the Public Works (Health) Act, as applied to Western Canada:—

The volume of work has greatly increased during the last three years, with more than ever in prospect for the next twelve months. With few exceptions, the medical service has been up to the requirements of the Act, and bona fide complaints are few. Many of the doctors use motor cars, especially on the prairies, and have thereby increased their effectiveness. A charge of one dollar (\$1) per month to employees is made everywhere in my district. The service demanded now-a-days costs that amount where men are employed in small numbers, and close to it when there are thousands on a single contract. The employees in the open country are housed mostly under canvas, and through the mountains, where the work is more permanent, in log buildings and in those made of boards covered with tar paper. With the exception of the office tents, the canvas structures are seldom floored, while about half the log and board buildings have hewed logs or lumber laid down. Camp sites are nearly always wisely chosen, with a view to drainage and water supply, as well as convenience to work.

The fly nuisance is *par excellence* the evil to be contended with, and could be improved by special regulations enforcing screen doors and windows for all kitchens and dining rooms and screen closets. Good food and good cooking prevails everywhere except with some stationmen who supply themselves.

The contracts are not necessarily given below in the order visited, since so much detail would make an annual report cumbersome.

The general health conditions have been exceptionally good. There was no small-pox beyond a few mild or doubtful cases. There was fifty-seven cases of typhoid from April to September on the Canadian Pacific Irrigation Company's ditch work, east of Calgary. No other epidemic outbreaks took place requiring special mention. On all work there was 17,046 employed at the time of inspection and disposed as given hereafter.

CANADIAN PACIFIC RAILWAY.

Lacombe-Moosejaw Line.—Coronation East, 19 miles, contractor was Frank Jackson, and his sub-contractors, Brown, Stokke and Van Buskirk, employing 205 men. There was also a ballasting gang working on 60 miles and 40 miles of track-laying. Dr. Hurlburt of Coronation, was in charge of the ballasting and tracklaying, and Dr. Mooney, of Consort, on the grade. The water supply was from wells, only, for this part of the line is wholly within what is known as the 'dry belt.' Health conditions were good. The hospital was at Coronation.

Weyburn-Lethbridge (a) Stirling East.—The contractor was John Timothy, and the sub-contractors were Sullivan, Scott & Reid, Bailey, Larsen & Peterson, and Foley Brothers. 136 men were employed, and were in charge of Dr. E. A. Keillor, of Raymond, who had a hospital at Stirling. There was 25 miles to cover, and the service was satisfactory.

Weyburn-Westerly (b).—Ed. Petersen was the contractor, and the sub-contractors were Morrissey, Davis, Sampson & Sons, Wynn, Shipman Brothers, Leach & Rutledge, Struder & Gorman, Schultz Brothers, McKenna and many stationmen. 355 men were employed. Dr. Wheeler was in charge, with a hospital 16 miles west of Viceroi. Wells had to be depended on, and water was in many cases hauled considerable distances, and even then often quite alkaline. There was no sickness,

Suffield-Kipp.—J. G. Hargraves was chief contractor, and the sub-contractors were Morrison & Kusack, McLee, Anderson and Kerr. There were only 261 men on the job, and were looked after by Dr. Steele, of Suffield, who travelled along the line every week en route to visit the camps of the Southern Alberta Land Irrigation Company. Arrangements had been made to send patients to the Medicine Hat Hospital at \$1.25 per day. Well water, only, was available. There were eight cases of typhoid, but no deaths reported.

Swift Current—Northwest.—Cabri to South Saskatchewan river, 40 miles, Dutton and Timson were the contractors, and the sub-contractors were Clark, Brown, Caughey Brothers, Saugren, and stationmen. In all 327 employees were engaged. Dr. K. C. Cairns, of Swift Current, using the Swift Current City Hospital, was assisted by Dr. J. Knippel, of Cabri, on the grade. Wells were in vogue, and sickness was conspicuously absent.

Regina—Moosejaw, and Moosejaw—Chaplin.—*Double-tracking.*—Dutton and Timson were the contractors. The sub-contractors were McPherson and Dutton, Gate City Co., Traynor, Molloy Brothers, Paget, McTae and Briscoe. They engaged 220 men. There was respectively 42 and 53 miles under construction. Dr. R. H. Smith, of Moosejaw, using the Moosejaw City Hospital, was assisted by Dr. Young, and there was no sickness to mention.

Kootenay Central.—Colvalli, north from the Crow's Nest line, and from Golden south from main line through the Kicking Horse Pass. The Canadian Pacific railroad were doing force work on the bridges, and culverts and ballasting, and the 60 men employed were in charge of Drs. King and Green, of Cranbrook, any cases of sickness being cared for in the Cranbrook Hospital. Burns and Jordan also employed 50 men, who were under the same medical service. This firm has lately taken the contract for the balance of the road between Golden and Colvalli, and hope to finish it this year. From Golden south, Jansé, Boomer and Hughes were the contractors, with 60 men. Dr. Taylor, with a hospital in Golden, was giving a good service. There had been none but minor accidents, and no deaths.

Kettle Valley Line between Penticton and Merritt.—From mile 25 south of Merritt to Coquihalla Summit at mile 38, Twohey Brothers are the contractors, having six camps, employing 350 men. On the Penticton end for 18 miles Grant Smith is the contractor, having three camps and 150 men. Dr. Ker has the contract for the medical work, and employs Dr. Gillis of Merritt, and the Nicola Valley Hospital on the Merritt end, and Dr. Davis with a private hospital at the Penticton end. The camps are large and well built and the general health good, there being the very best of water and unpolluted mountain streams. There were a few minor accidents.

GREAT NORTHERN RAILWAY.

Coalmont to Canyon House.—From Princeton over Hope Mountain in Southern British Columbia, 20 miles is being built by Guthrie and McDougall, with (1) Wardenhoff and Jacobson and (2) J. G. McLean as sub-contractors. There are in all seven camps and 505 men in care of Dr. McCaffren, of Princeton, B.C. He has a hospital located in Princeton. There were three serious cases of non-epidemic sickness and no deaths.

CANADIAN NORTHERN RAILWAY.

McLeod-Crows Nest and McLeod North.—The contractors are the Northern Construction Company. The sub-contractors are (1) McDonald and (2) Jas. O'Connor, who had re-sublet to Whelan & Malong, Wilson, Erickson, Murphy, J. Whelan, and Duggan & Young. They had 133 men employed, with Dr. Kennedy of McLeod, Alta., in charge of patients in the hospital in McLeod town, and Dr. Reid on the grade. He was covering 35 miles and all was satisfactory on the work.

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Camrose—Strathcona.—The Northern Construction Company, the chief contractors sublet all of the 16 miles in this contract to Owens, Swan, Thompson & Davis, and about 75 stationmen. In all there were 240 employed. Drs. Stewart and Smith of Camrose looked after the camps, and when necessary sent cases to the Edmonton hospitals, as well as taking them to the Camrose Hospital. The work was finished early last summer, and without any untoward conditions arising.

Goose Lake Extension.—The Northern Construction Company were the chief contractors, and sublet the work to G. Bryson, A. C. Bryson, Sinclair, Miller and Turnbull, Anderson, Doyle, Wilson and numerous stationmen. 353 were engaged on the grade over a distance of 25 miles. Dr. Grant with a hospital on the grade furnished the medical service. On this work wells had to be relied on since this line is now extended well into the 'dry belt.' The camps moved frequently and generally health was good.

Gravelbourg Extension.—W. J. Cowan, the contractor, sub-let to Keck Brothers, F. J. Peterson, Thompkins, Peterson & Nicholson, and Mathew Peterson. 200 men were engaged. Dr. Fraser with a tent hospital at F. J. Peterson's camp, looked after the 25 miles of grade. The service was only fair, but the employees were free of unusual sickness.

Conda—Melfort.—C. H. Richards and nephew, had two camps and 84 men. Dr. W. Mackay was the medical officer, and sent any cases to be had to Saskatoon hospital, where Dr. Peterson looked after them.

Dalmeny—Laird Branch.—This 15 miles was being built by J. W. Miller, and two small subs with 50 men looked after by Dr. Hodgins who was also with a Canadian Northern railroad ballasting gang on the main line. The hospital in North Battleford was being utilized.

Prince Albert—Battleford.—Cowan & Co. were the contractors. Wilson & Woodward and Jas. McKenzie, and smaller subs employing 200 men were spread along 30 miles of right-of-way. Dr. Simpson was in charge and had arrangements with the hospital in North Battleford.

Peace River Branch. Pembina River to McLeod-Athabaska Crossing. The contractors are the Northern Construction Company, whose sub-contractors are the Tobin Construction Co., John Bradley, Berry, Cooney & Farrel, Bishop & McLean, Bumble, Mann & Co., T. Hopgood, W. Hopgood, Allen Brothers, W. T. Mackenzie, Burke & Gorham. In all there were 449 employees, taken care of by Dr. Ross, with a tent hospital on the line. There were no complaints or deaths due to the work, and little sickness.

Edmonton—St. Paul de Malis.—The contractors are the Northern Construction Company, who sub-let to McCrimmon, who with subs had 98 men. Dr. Rippon of North Edmonton utilizing the Edmonton General hospital, gave the men good attention.

Main Line between Pembina River and Yellowhead Pass in Alberta.—The chief contractors are: (1) Phelan & Shirley, who have as sub-contractors (a) Shepherd & Stevens, (b) W. T. Parsons, (c) A. S. Wright, (d) C. E. Sandline, (e) Wright, (f) stationmen (g) Lundberg & Co.

(2) W. T. Parsons on tunnel work.

(3) Jas. O'Connor.

(4) Canadian Northern railway force work on Athabaska bridge, Big Eddy and mile 149, also a steel laying gang. In all there were 1,055 men on this stretch of work, and the medical service consisted of: Dr. Wellwood of Entwistle, with a hospital at Entwistle. He had easy access to the 50 miles of nearly finished work in his district, from the Grand Trunk Pacific railway. The whole of this line from Pembina river to the Yellowhead Pass, parallels the Grand Trunk Pacific railway and is within a few minutes walk at any point, a condition which greatly assists the

medical service. Next west was Dr. Sexton, at Hinton, with a small hospital for emergency cases. Then followed Dr. Myers, at Fitzlugh, with a base hospital and Dr. Jarline on the grade west of that place to the summit of the Pass. The hospital records showed nine cases of typhoid and no deaths. The accidents were not in numbers out of proportion to what is always occurring on a mixture of earth and rock work.

One complaint was received of an important contractor pitching on an old Grand Trunk Pacific camp ground, and a special visit was made to investigate. There was no other place for him to camp convenient to his work. He spent a good deal of money and made a thorough clean up, and was let remain. No bad results followed.

HUDSON BAY RAILWAY.

The Pas to Limestone Lake.—The chief contracting firm is McArthur & Boyd. Their sub-contractor is McMillan Brothers, who have under them Stewart & Jones, Luky, DeGreen, Ray, and some stationmen. All told there was 500 men engaged. Dr. M. R. Simpson, Winnipeg, is chief, and Dr. Orok, The Pas, is on the work. The hospital used is St. Anthony's at The Pas and occasionally Dr. Gillis of The Pas assists. There is an emergency hospital at mile 40. There was one typhoid and a few minor troubles, and no deaths and no complaints.

EDMONTON-DUNVEGAN RAILWAY.

J. D. McArthur is the contractor and principal. He sub-lets to D. F. McArthur, who subs a part of the work to Hansen & Co., Porteous & Co., who re-lets to six others, some of whom sub again. There are also stationmen, clearing gangs on right-of-way, and road crews. The total number was 346. Dr. Farquharson, Edmonton, is in charge, and had Dr. Williams on the grade, the two of them looking after 60 miles. The hospital employed was the Misericordia in Edmonton. There were two mild cases of smallpox and nothing else worthy of remark.

GRAND TRUNK PACIFIC RAILWAY.

Prince Albert—Wakaw.—This branch was nearly completed by the original contractors, Sutherland and Birchall, assisted by Clark & Co., each with one camp and 20 men. They were all working close to Prince Albert where a doctor could be called at any time and no medical service had been arranged, and no fees were being collected.

Biggar—Battleford.—J. Daudeland was completing this work with 60 men and had engaged Dr. Blyth with arrangements at Battleford hospital to take care of any cases of sickness.

Cutknife Branch from Battleford to Wainwright, on the main line.—C. C. Barnes was the contractor, with five subs: Leach, Curry, Barnes, Hill and Turnbull. 123 men were engaged in all, and Dr. Stanley Miller of Battleford, using the Battleford hospital, was giving good service. He covered 50 miles of scattered operations with a motor car.

Main Line from Prince Rupert to Burns Lake.—Chief contractors are Foley, Welsh and Stewart, who have sub-let to Wall and Swann (wooden bridges), Norman McLeod, mile 20 East of Hazelton, Erebert and Stone, Foley, Welsh & Stewart (Chicken Lake), Neuse and Williams, Bostrom, Hugh McLeod, Ereberg and Stone, M. Shady, Albi, D. Ross, John McLeod, Paget, Stewart Brothers and Rankin at mile 142 East of Hazelton, stationmen about 140 from Aldermere west. There was also Foley, Welsh & Stewart's teamsters, roadbuilders, Barrett's cache, Hazelton cache and Arnett's pile driving gang. There were 1,426 employees. The chief medical officer is Dr. Ewing, who resides in Vancouver, and occasionally visits the work. His assist-

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ants resident on the contract are: Dr. Kearney at mile 23 east of Hazelton, with a hospital of 6 beds. He was covering 50 miles of scattered work, nearly completed, with a saddle horse. Dr. Sproule takes charge from mile 56 to 102, with a hospital of eight beds at mile 74. He had a team of horses and covered 46 miles. Next east on the line was Dr. Webb from mile 111 to 154 with a hospital of 24 beds, covering 40 miles with a saddle horse. There is a telephone throughout the whole line and calls are always responded to promptly. The hospitals on this work are better equipped this year than last, but have not been kept as clean and tidy as they should be all the time. The chief surgeon is supposed again this year to return to the line and give it his personal supervision.

There are two other direct contracts from the Grand Trunk Pacific, one is A. McDougall with 100 men extending the yard room in Prince Rupert, and the other Bates and Rogers with two camps and 190 men lining tunnels along the Skeena river. Dr. Trewayne of Prince Rupert is in charge of both, and takes his cases to the Prince Rupert hospital.

On the whole west end, there are 1,716 employees. Only four cases of contagious diseases of serious character were reported and four sudden deaths from explosions. There was at all times the usual percentage of ordinary ailments and many minor accidents.

Brandon—Hart Branch.—Hyland, Plummer & Galloway have sub-let to Wm. Bradley, who only engaged about twenty men on the eight miles nearest Brandon. No service had been arranged or fees collected.

Mountain Park and Alberta Coal Branch.—This work is nearly completed by Phelan and Shirley, who still employ 170 men. Bates and Rogers are lining a large tunnel with 120 men. Dr. Shilabeer, with a hospital at mile 37, is still in charge. There are phones throughout the line, and the service has been good. There were two cases of erysipelas, four typhoids, and four sudden deaths from explosion.

Tete Janne Cache to Ft. George.—The main line of Grand Trunk Pacific west of Yellowhead Pass. Foley, Welsh & Stewart are the chief contractors. The work is sub-let to H. E. Carlton & Co., who have 11 camps. A. E. Griffin & Co., who sub-let to Winston, Byrne and Duffy, Morton Emmons, O'Reilly & Co., and Corrigan & Griffin, Burns, Jordan & Co., with eight camps of their own and sub-contractors, Emerson Brothers, Gorman & Poole, Chien and Welsh, Presby and O'Brien, M. J. Burns & Co., and McDonald & McCarty. The remaining smaller contractors are M. F. Carey, Lund & Rogers, D. J. Carey & Co., McGriffin, Bergh & Co. The total number of men employed is 3,915. The camps were all built for winter quarters, and have been occupied by nearly full gangs. About half of them were floored. In all of them there was a number of men sleeping two in a bunk to economize in bedding. This is not good practice on railway work, but the men ask for the wider bunks. At time of last visit in November, approximately four-fifths of the men were between Tete Janne at mile 53 B.C. and mile 130 B.C. Dr. Richardson is chief surgeon and in charge of the other resident physicians on the contract. Stationed further west is Dr. Falconbridge, at Fort George, with a hospital at that point. He looks after a right of way cutting gang and the few scattered along the grade just commencing operations in that section. The next hospital to the east of this is at Willow river, with Dr. Nasmith in attendance. There were 35 beds and no patients. The work was new, and the hospital was in anticipation of the contractors who were soon to move farther west. Next going east was Dr. Grey, at mile 160, with a 15 bed hospital and no patients. The next in order was Dr. Richardson's headquarters and base hospital at mile 114, with 85 beds. Dr. G. H. Smith was assisting. There was surgical and medical wards and an operating room and contagious ward. There were nearly 50 cases in the wards. There was eight cases of infectious and con-

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tagious disease, and three deaths from sickness. No fatal accidents had occurred from explosions, though there were many minor injuries from various causes. The next and last hospital was at Tete Jaune Cache, mile 53, with Dr. Baker in charge. There were 22 beds and eight cases in the hospital, one of which was typhoid. There are trained nurses at all the hospitals, and telephones as far as mile 166. This is one of the best medical services in Western Canada.

SOUTHERN ALBERTA LAND COMPANY IRRIGATION DITCH.

Chief contractor of this work is D. F. MacArthur, to the westward. His subs are: Thacker, McMillan, Fogarty, Devereaux, Cairns, Wynham, Malin, Olsen & Nelson, Cameron, Fitzpatrick, Holden & Christensen. To the eastward the Southern Alberta Land Company had a large flume camp, and as sub-contractors on the ditch: Crandell Brothers, Ham, Swanson & Anderson, and Corsan. There were 439 employees. The medical service consisted to the west of Dr. Harris, of Taber, with a hospital at Taber, and Dr. Steele, of Suffield, using the hospital at Medicine Hat to the east. There were six cases of typhoid in one small camp which was moved to make an effectual clean up, and two cases in another. One death resulted. South of Gleichen the Southern Alberta Land Company had two camps. D. MacArthur, R. D. McGregor, G. H. Sissons, making a total of 522 men, with Dr. Farquharson of Gleichen in charge. The hospital used was the Holy Cross hospital of Calgary, where Dr. McGuffin was engaged to look after those sent in. There were nine cases of typhoid and two deaths during the summer.

CENTRAL ALBERTA RAILWAY.

Red Deer to Rocky Mountain House.—The contractor is D. F. MacArthur, who had three camps, 30 stationmen and a ditch camp, making a total of 245 men. Dr. Parsons of Red Deer, assisted by Dr. Mackenzie on the grade and utilizing the Red Deer hospital, were giving a good service.

Biggar—Calgary.—Twenty-five miles from Biggar, Sask., toward the southwest. Phalen & Shirley are the chief contractors, and their subs are D. Fitzgerald, Biggs and Clement, Mahoney, A. J. Rothwell, J. Fitzgerald & Jameson. 130 men were engaged and in charge of Dr. Chandler of Harwell, with a hospital at Harwell. There was no sickness.

MOOSEJAW—REGINA.

Marsh, Sicms.—Carey, Smith & Co., and Rigby, Hyland and Plummer, with a camp each and 165 men in all were completing the last four miles of this work. Dr. Bawden, using the Moosejaw city hospital was in charge. Conditions were good.

CANADIAN PACIFIC IRRIGATION COMPANY.

This is east of Calgary, along the main line of the Canadian Pacific Railway. Janse, McDonald, are the chief contractors. The sub-contractors are: Ambursen, Hydraulic Construction Co., Grant Smith & Co., J. L. McKenney & Co., Jamieson and Kittiwell, Janse Brothers, Boomer and Hughes, Clifford & Co., McCorkendale Brothers, Janse Brothers, McNamara & Worth, McLaughlin, Kimball Brothers, Jackson, McKinney, and subs: Tobin, Nœhren and Mannix and subs, Thursfield, Duke-law & Sons, Brandenburg, Marshall, Pearson, Culwait, Kimble Brothers and subs, and other smaller contractors. There were 1,550 employees. Drs. Ker and Haszard were the contractors of the medical service. Dr. Haszard visited the round of camps by motor weekly and took care of the cases sent to the hospital in Calgary. Drs. Harris and Scott took charge of the camps in the district about Bassano. Dr. Anderson was in charge of the district around Brooks and of the hospital in Brooks. The

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exact mileage covered by each cannot be given and varied greatly on account of the main ditch having so many tributaries with camps on them that frequently changed their location. There were 57 cases of typhoid, of which a detailed statement is as follows:—

REPORT of Typhoid Fever occurring in construction camp of C.P.L.D. from April, 1912, to September 5, 1912.

Name of Contractor.	Location of Camp.	No. of typhoid patients.	Water Supply.	Condition of Camp.
J. L. McKinney & Co.	Team camp on Flat Bassano Dam.	8	Well and gravel pit	Good.
"	Main camp, Bassano Dam.	19	River water.	Bad.
Ambursen Con. Co.	Main camp	2	"	Good.
Grant Smith	Bassano Dam Flat.	13	Gravel pit until 3 weeks ago.	"
"	Flume camp at Brooks.	5	Well water.	"
McNamara & Worth	10 miles north of Bassano.	1 teamster.	"	"
John Timothy	17 miles N.E. of Bassano.	1	"	"
Kimball Brothers	3 miles N. of Bassano.	1	"	"
Tobin	3 miles S. of Bassano, Crawling Valley.	1	River water.	"
Janse Brothers	6 miles south of Southesk.	3	Open shallow well.	Fair.
Noehren & Mannix	12 miles south of Brooks.	1	Well water.	Good
S. Thurfild		1		
Dukelow & Sons	2 miles S.E. of Cassils.	1	"	"

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All of these cases were taken care of at the hospital at Brooks, where there is a staff of three graduate nurses, and Dr. C. E. Anderson on duty.

In two or three instances, I found a disposition on the part of the contractors to collect fees for a while after work commenced, before they had made arrangements for medical service.

A. E. CLENDEXAN,
Public Works Health Inspector.

The Honourable, Minister of Agriculture,
Ottawa.

MISCELLANEOUS

APPENDIX No. 18.

EXHIBITIONS.

GHEENT, March 31, 1913.

SIR,—I beg to submit the following report regarding the operations of the Canadian Government Exhibition Commission during the twelve months extending from 31st March, 1912, to the 31st March, 1913.

CRYSTAL PALACE EXHIBITION.

The Government having decided to extend for another year the exhibition which they had put up in the Pavilion especially constructed for the Festival of Empire of 1911 on the grounds of the Crystal Palace it became necessary to make repairs to the exterior of the building and also changes and improvements in the interior, with a view to create fresh and renewed interest in the Canadian exhibit. To achieve this end the painting of the exterior, which had greatly suffered from rains and frost during the winter season, was entirely renewed; the decoration scheme of the interior was also changed and improved; a re-arrangement of all the exhibits was made; fresh fruits were installed in the horticultural section, and all exhibits which were deficient in quality or appearance were replaced by new ones.

The Pavilion was opened to the public from the 1st of May to the 24th of November, 1912, and although the number of people visiting the grounds did not come up to the 1911 mark, they were the kind we wanted, all being interested regarding Canada.

IDEAL HOME EXHIBITION.

In April, 1912, we placed a strong fruit exhibit in the Ideal Home Exhibition held in the Olympia, and promoted by the *Daily Mail*. This exhibit was favourably commented on in the daily press.

THE ROYAL AGRICULTURAL SHOW.

From the 22nd to the 30th of May, 1912, a great horticultural exhibition was held at Chelsea, London, in which the British Isles, France, Germany, Holland, Belgium, &c., took part. Canada was invited to participate, and, according to your instructions, I organized a Canadian horticultural section on these grounds. Canada showed in marquee 40 x 40 feet, which contained fresh apples in baskets among shrubs and plants grown from Canadian seeds, as well as a large variety of preserved fruit in their natural state on branch, and otherwise. Our exhibit was visited by their Majesties the King and Queen, Earl Grey, Lord and Lady Minto, and several other distinguished people. His Majesty commented favourably on our fruit exhibit, especially the bottled fruit.

I believe the decision of Canada to participate at the Royal International Horticultural Show was a very judicious one, as from all reports this exhibition was the finest of its kind held in Europe for the last twenty years. It attracted a very large

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number of visitors from all over the British Isles and the Continent of Europe, who had thus the opportunity of acquainting themselves with the great horticultural resources of Canada.

THE PANAMA PACIFIC EXPOSITION.

Immediately after the closing of the Royal Agricultural Show, I left for San Francisco, California, in order to select the site to be occupied by the Canadian Section at the Panama Pacific Exposition of 1915, and was very well received by the members of the Executive Committee of the Exposition who placed at the disposal of Canada, free of charge, a large piece of land in one of the best parts of the grounds and covering an area of 250 x 500 feet. This site is close to the sites selected by the Western States, and in making this selection I thought it would be of great advantage owing to the large number of people who have gone to Canada from these States. Many of these people along with others will, as at Seattle, be much interested in the Canadian exhibit.

IMPERIAL INSTITUTE.

On my return to London at the end of July, I resumed my duties at our exhibit in the Crystal Palace grounds. I availed myself of the opportunity of the exhibition staff being in London to have some repairs and improvements carried out in the Canadian section of the Imperial Institute, for which a sum of money had been placed in the estimates. In the course of August, September and October, some members of my staff were engaged in putting our exhibit at the Institute in a better condition. The agricultural and horticultural show-cases and the decorations of the section were rearranged or renewed; fifty decorative panels and numerous designs of various dimensions, and all executed in Canadian grain and grasses, were added to the ornamentation of the section; a large case was also erected for bottled fruit. This display, for quality, is admitted by all to be the best that has been placed before the public of London. Besides this, a section of the court was finished to receive a large map of Canada, the map being placed behind glass, the whole being in keeping with the general exhibit.

From the reports of the authorities of the Imperial Institute, the Canadian section is very largely attended and proves to be very popular.

GENERAL WORK.

I may also mention here that during the year 1912 we received from many concerns in London who are intimately connected with Canadian national life and who had the opportunity to appreciate the work achieved by the Canadian staff of decorators in the pavilion at the Crystal Palace, requests to help them in decorating and dressing up their show-windows with the specimens of Canadian products which they wanted to place before the public eye. We thus contributed to the decoration of the show-windows of the Ontario Government offices, on the Strand; the Quebec Government Offices, Kingsway; the Canadian Pacific Railway, Trafalgar Square; the Grand Trunk Railway, Cockspur Street, and the Canadian Northern Railway, in the city. All these companies contributed to the cost of the work done. Besides these, we also did the Canadian Government Emigration Offices, Charing Cross, and the front window of Messrs. Thomas Cook & Sons' general offices.

THE CHILDREN'S WELFARE EXHIBITION.

From December 31, 1912, to January 10, 1913, an exhibition called the Children's Welfare Exhibition, organized by the London *Daily News and Leader*, was held at the Olympia, London, and, according to the instructions received from your depart-

ment, I advised the committee that Canada would participate therein. We secured on the main floor a central position measuring about 3,000 feet, which formed a hollow square surrounded on three sides by show-cases containing many varieties of fresh apples, bottled fruit in preservation, cereals, tinned vegetables, &c., and showing in rear of the cases transparent photographs of agricultural scenes. The interior of this square contained a large panorama illustrating the route of the railway from Port Arthur to British Columbia; a miniature railway traversed the whole route with about 250 feet of tracks, the freight trains stopping at elevators for loading wheat, &c. Our exhibit obtained a great success; as a matter of fact, it was the great drawing card of this exhibition.

THE GHENT EXHIBITION.

In September I crossed to Belgium to secure the site intended for the Canadian Pavilion at the Ghent Universal and International Exhibition, in which the Canadian Government has decided to participate on a large scale. An area of land measuring about 50,000 square feet was offered to us free of charge, and I accepted it at once, as its location seemed very favourable to me.

In Ghent I found the people, who are principally Flemish, very ambitious that their exhibition should be more effective than the one held in Brussels in 1910, and in some respects I think they will succeed in doing so. The Commissioner General for the government and the president of the executive committee of the exhibition are both Flemish and expressed their anxiety to have Canada make a still better display than at Brussels, admitting at the same time that our section at Brussels was better than at Liege; furthermore, they wanted the greater portion of the reading matter explaining the different exhibits to be written in Flemish. To do this it meant that the reading matter had to be in four languages: French, Flemish, English and German.

At other expositions on the Continent where Canada participated, we have had a few Germans employed on construction work, but on our building here this number has increased to 25 per cent of the number of men employed. German carpenters are good mechanics and good workers, and very much interested in Canada. The German exhibit is close to our pavilion, so that we expect to get quite a good proportion of German literature disposed of amongst these people; in fact our pavilion is well placed to reach the natives of countries in which Canada cannot carry on an emigration propaganda, and feeling that this was our great object in making this exhibit, and considering the wish expressed by the authorities of the exposition, as mentioned above, and also that it was in the interest of Canada to do so, especially when she will have no other opportunity to exhibit under similar circumstances on the Continent of Europe for many years, I thought it well to do something out of the ordinary, and I may say that both the building itself and the interior decoration and arrangements are by far the best we ever had on this Continent.

The construction work was commenced early in November by the large firm of Humphreys, Ltd., of London, who hold themselves entirely responsible for the work in consideration of a commission of fifteen per cent on the cost of the building, this including salary and expenses of the architect and clerk of works, who have been on the grounds for five months. All the interior decorations are made in Canadian grasses and straws and include a series of tableaux representing a large variety of Canadian landscapes, agricultural and horticultural scenes, &c.—the whole of which produces a most impressive and realistic effect. Our exhibit consists of the products of agriculture, horticulture, mines, forestry, fisheries, fauna, agricultural machinery, railroad transportation, &c. All our exhibits are in splendid condition and form a comprehensive collection of the productions of Canada, and I feel certain that their

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intrinsic value coupled with the manner in which they are placed before the public will attract a great deal of attention and ensure the success of our participation at this great World's Fair.

The whole respectfully submitted.

WM. HUTCHISON,
Canadian Exhibition Commissioner.

To the Honourable Minister of Agriculture,
Ottawa.

APPENDIX No. 19.

THE SEVENTH INTERNATIONAL CONGRESS AGAINST TUBERCULOSIS,
ROME, ITALY.

SIR:—Acting upon your commission of March, 1912, as one of the delegates to the Seventh International Congress on Tuberculosis held in Rome, April 11 to 21, I beg leave to report upon matters which were submitted to the members of the Congress, and in addition wish to submit material collected throughout Europe during the six months which preceded it.

THE CONGRESS.

It was well attended, in spite of its having been deferred from the autumn of 1911. With few exceptions, the various countries of the world were represented by one or more delegates. The Italian profession flocked to Rome from every corner of the Kingdom, while many of the Italian savants spared no efforts to bring enlightenment to their own countrymen, giving the foreign delegates every opportunity to benefit by the fruit of their labours.

One naturally asks what was the chief feature of interest brought out at such a gathering?

There were many interesting communications. In chemo-therapy and helio-therapy much promising material was submitted both at the congress and the conference. The social aspect of the question was well presented by numerous representatives, showing that all civilized countries were quite thoroughly organized in that department. Compulsory notification was pretty fully discussed, winning over a goodly majority of the delegates to the need of the adoption of such a measure in order to make the crusade truly effective.

The influence of alcohol as a factor in the dissemination of tuberculosis was strongly emphasized by a large number of medical authorities.

As at former congresses, the burning question was that of bovine and human tuberculosis, their difference and relationships being fully discussed. In the scope of this report one could not attempt to bring out any part of the discussion. The conclusions adopted finally were but the result of compromise on both sides, and these resolutions were only framed up sentences telling what we have long known, viz., that: The greatest source of danger to man is man himself—not the much maligned bovine.

THE CHILD AND TUBERCULOSIS.

Under this heading much valuable material offered. The most convincing work was that presented by Calmette, of Lille. In fact it is so important that a brief analysis of it is bound to arouse interest. His contention that infection in tuberculosis occurs during childhood is borne out by facts observed by others as well as himself.

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Last year between January and June he submitted 1,226 children to the anti-reaction (Tuberculine). These children were not attending hospitals or dispensaries—they were looked upon as healthy.

The following table gives a good idea of the results:—

Age.	Number tested.	Infected.
		%
0 to 1 yr.	273	9
1 to 2 yrs.	145	22
2 to 5 yrs.	206	54
5 to 15 yrs.	366	81
Over 15 yrs.	236	88

Concording with these findings but obtained from an entirely different source are those of Harbitz, of Christiania. In this instance he reports upon autopsies made upon children whose death had been caused by various diseases, to the number of 484, with the following results:—

First year of life.	20%	}	were found to be infected with tuberculosis.
Second year of life	27%		
Fourth and fifth year	44%		
Sixth to fourteenth year.	75%		
Fifteenth year	85%		

Calmette claims that at the age of 20 very few human beings have escaped infection by the tubercle bacillus.

What can all this mean?

For a reply we again have to refer to Calmette's experimental work performed upon calves at the Pasteur Institute at Lille. During the course of these experiments he followed as closely as possible the methods which nature uses to infect man. Here he found that his animals readily recovered from a first, a second, a third and in fact many infections, if only the animals were given sufficient time in which to recover. In fact, each infection produced a certain degree of immunity if the lapse of time allowed for recovery was sufficiently long—it always took larger quantities to re-infect. From this work Calmette concludes that among human beings tuberculous disease develops when the doses of infecting material are very large or repeatedly absorbed at short intervals.

In any event, one sees in the mechanism of this childhood infection the role played by nature to protect or vaccinate—truly this should point out to us what ought to be the direction of our efforts to assist nature in her protective work.

Following up this idea of childhood infection, Webb, of Colorado, and Maragliano, of Italy, reported at the Congress attempts to vaccinate children, expressing the hope at the same time that it might yet become possible to do this with a determinate dose of living bacilli injected into the subcutaneous tissues.

Webb's experimental work was done with monkeys; the account of it appearing in the transactions of the Congress will prove interesting reading.

CURATIVE MEASURES.

Here of course endless modifications of older methods were advocated—entirely new methods were also submitted for appreciation. Among the new methods may be mentioned the attempt at curing tuberculous disease by injecting directly into the

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blood-stream different chemical reagents. Among the most notable was that advocated by Finckler, of Bonn, consisting of aniline colours with iodine and a copper salt. The results thus far have not been very convincing, but this mode of treatment is being persistently applied by the German school and much is hoped for eventually. Open air methods with generous feeding still remain dominant as the curative factor giving the most uniformly good results. Right here I may be allowed to mention and perhaps *outline* a method of treatment developed in England depending upon fresh air and generous feeding, but systematized.

I was sorry to find that no report on this method was made at the Congress. To my mind it is one advance made of late years in the hygieno-medietetic treatment. I wish to refer to the Frimley method. The Frimley Sanatorium is the suburban annex of the Brompton Hospital for Consumption in London. About eight years ago, Dr. Marcus Paterson became superintendent at Frimley, and there worked out this method of graduated exercise and labour with periods of absolute post-splinted rest, so to speak. His report upon results, published in the fall of 1911 was decidedly encouraging.

Among the advantages of this method are the following:

- (1) It gives every individual affected with tuberculosis some chance of recovery, many individuals who seemed hopeless elsewhere recovered completely at Frimley.
- (2) The Hospital for Incurables becomes unnecessary since patients in every stage of the disease are admitted with some expectation of recovery.
- (3) No special climate or altitude is needed, fresh air, generous feeding and supervised exercise with gradually increased labour form the basis of the treatment.
- (4) The duration of the treatment is shortened by nearly one-half.
- (5) Tendency to relapse is reduced by a third or more.
- (6) Employment during the treatment is allowed, by means of free and paid patients such as the reclining chair frog catchers.

The basic principle upon which the Frimley method is founded is resistance. In tuberculosis this factor resistance has been generally understood of late years. 'Increase the physical resistance of your patient and he straight away gets well' is a phrase now in common use by physical culturists.

I have said that the Frimley method is systematized—in reality it is a system which meets most of the needs of the tuberculosis problem. Founded as it is upon a principle which is rapidly being accepted wherever known, it reduces the treatment to a simple formula: Restore the broken-down resistance of the patient, whether he be in the first, second or third stage of the disease, if not, he has some chance of recovery even in the third stage, that is what makes the Frimley method worth while; there is no need of a hospital for incurables.

The hospital for incurables is what actually discourages the patient, most of all, but think of the philanthropist whose help is sought to build and equip a refuge for the incurables from a disease which is less curable than ever. There remains nothing to explain; it is clear that the position we have taken in the past is not right.

Now think of the infection as occurring in childhood and the disease developing in adolescence or later, then the mechanism of resistance appears in a new, a different light. Broken-down resistance is really the great factor in the development of tuberculous disease after all. Everybody knows the conditions which bring this about, it is a large sociological problem which is being faced by all civilized countries. We may yet come to the conclusion that infection in the adult is quite secondary as a producer of tuberculous disease. Infection in the child may yet be accepted as nature's method of protecting life. We should read these sign boards more attentively.

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In Canada how may we benefit from these congresses and the movement in the world at large? In the first place the budget placed at the disposal of the Canadian Association for the Prevention of Tuberculosis must be sufficient to enable some of its officers or others to keep in very close touch abroad and distribute the information obtained in the shortest possible time at home.

Through this agency field work should be carried on to a final issue in the various provinces and particularly in the large cities. By this I do not mean efforts limited to an occasional campaign alone but the assistance should go far enough so that the organizations in each area should be taught how to raise the necessary funds, how to build, equip and manage the institution brought into existence. The minutiae should be gone into as though one were pursuing the policy of the federal government in its various agricultural departments.

Again, the question of research work in this country is of the greatest importance and should receive assistance. The central association should have funds at the disposal to distribute where such work is done in existing institutions.

Respectfully submitted,

A. J. RICHER.

To the Honourable Minister of Agriculture,
Ottawa.

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