

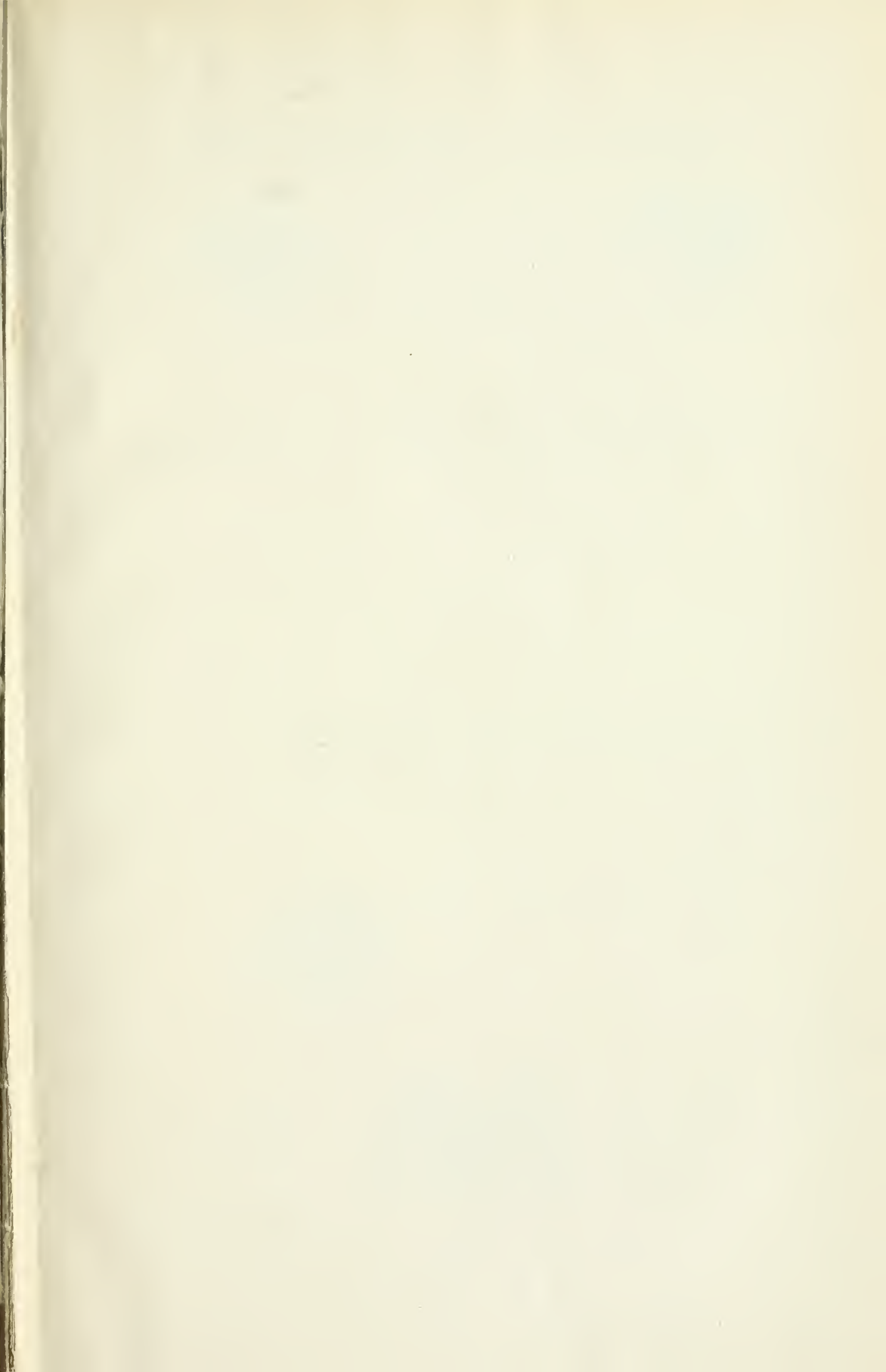






Canada Parliament  
Sessional Papers







# SESSIONAL PAPERS



VOLUME 8



FIRST SESSION OF THE TWELFTH PARLIAMENT

OF THE

DOMINION OF CANADA

SESSION 1911-12



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40e. Copy of Order in Council P.C., 16/168, dated 27th January, 1912, re Daily Rates of Pay and allowances for Bandsmen in the Royal Canadian Navy.—(*Senate*).

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- 55.** Return of Orders in Council passed between the 1st of October, 1910, and the 31st July, 1911, in accordance with the provisions of Section 5 of the Dominion Lands Survey Act, Chapter 21, 7-8 Edward VII. Presented 1st December, 1911.—*Hon. Mr. Foster.*  
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- 62.** Return to an Order of the House of the 29th November, 1911, for a copy of all papers, letters, telegrams, and other documents in connection with the acceptance of a tender of the McDiarmid Company, Limited, for the construction of the Moosejaw public building, and the cessation of all construction thereof. Presented 10th January, 1912.—*Mr. Knowles*... ..*Not printed.*
- 62a.** Return to an Order of the House of the 29th November, 1911, for a copy of all papers, telegrams, reports and other documents in connection with the proposed erection of a public building in the town of Aurora. Presented 10th January, 1912.—*Mr. Armstrong (York)*... ..*Not printed.*
- 63.** Return to an Order of the House of the 30th December, 1911, for a detailed statement of the expenses incurred and paid for the Exposition at Paris in 1900, under the title of payments of the Colonial Committee for space, &c., \$87,000 (*See report of the Auditor General, 1899, D—15*). Presented 10th January, 1912.—*Mr. Paquet*.  
*Not printed.*
- 64.** Return to an Order of the House of the 6th December, 1911, showing the expenditure for printing pamphlets, circulars and literature with a view to promoting immigration to Canada during each of the years from and including 1900 to 1911; and the expenditure in the interests of each province for printing pamphlets, circulars and literature entirely devoted to each province during each of the years from and including the year 1900 to 1911; and also, whether the printing was done by contract or under what arrangement and the rate charged. Presented 10th January, 1912.—*Mr. Sutherland*... ..*Not printed.*



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**CONTENTS OF VOLUME 24—Continued.**

- 64a.** Return to an Address to His Royal Highness the Governor General of the 30th November, 1911, for a copy of all Orders in Council and other papers relating to the appointment of Arthur Hawkes as a special commissioner in the immigration branch of the Interior Department. Presented 10th January, 1912.—*Mr. Oliver...* .. *Not printed.*
- 65.** Certified copy of a Report of the Committee of the Privy Council, approved by His Royal Highness the Governor General on the 21st December, 1911, appointing Messieurs Alfred Bishop Morine, Guillaume Narcise Ducharme and Richard Stuart Lake, a Royal Commission to investigate and inquire into the operation of the various departments of the government, with a view to securing increased efficiency and a more thorough organization and co-ordination in the said departments. Presented 10th January, 1912.—*Rt. Hon. Mr. Borden...* .. *Not printed.*
- 65.** Certified copy of a Report of the Committee of the Privy Council, approved by His Royal Highness the Governor General on the 29th January, 1912, relative to the appointment of two commissioners, namely: Mr. F. C. Gutelius, C.E., of Montreal, and Mr. George Lynch Staunton, K.C., of Hamilton, to investigate all matters bearing on the actual construction of the National Transcontinental Railway between Moncton and Winnipeg. Presented 6th February, 1912.—*Hon. Mr. Cochrane.*  
*Not printed.*
- 65b.** Certified copy of a Report of the Committee of the Privy Council, approved by His Royal Highness the Governor General on the 12th February, 1912, appointing the Hon. Sir William Ralph Meredith, Chief Justice of the Common Pleas Division of the High Court of Justice of Ontario, a commissioner to inquire into all the circumstances connected with the organization, management, operation and failure of the Farmer's Bank of Canada. Presented 13th February, 1912.—*Hon. Mr. White.*  
*Not printed.*
- 66.** Return to an Order of the House of the 30th November, 1911, for a copy of all papers, telegrams, reports and other documents in connection with the interpretation and enforcement of the duties on lumber, together with a copy of all instructions or other communications addressed by circular or otherwise to Collectors of Customs, and a copy of any minute or minutes or rulings or decisions of the Board of Customs during the year 1911. Presented 10th January, 1912.—*Mr. Knowles...* .. *Not printed.*
- 67.** Certified copy of a Report of the Committee of the Privy Council, approved by His Royal Highness the Governor General on the 21st November, 1911, providing for the transfer of the Government Annuities Branch from the Department of Trade and Commerce to the Post Office Department. Presented 10th January, 1912.—*Hon. Mr. Pelletier...* .. *Not printed.*
- 68.** Return relating to lands sold by the Canadian Pacific Railway Company during the year which ended the 1st October, 1911. Presented 11th January, 1912.—*Hon. Mr. Rogers...* .. *Not printed.*
- 68a.** Return under the provisions of Section 8 of 49 Victoria, Chapter 9, being a list of lands in the "Irrigation Block" of the Canadian Pacific Railway Company in the province of Alberta, sold by that company during the year which ended on the 1st October, 1911. Presented 13th March, 1912.. .. *Not printed.*
- 68b.** Return under the provisions of Section 8 of 49 Victoria, Chapter 9, being a list of lands in the province of Alberta, sold by the Canadian Pacific Railway Company during the year which ended on the 1st October, 1911. Presented 13th March, 1912.  
*Not printed.*



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**CONTENTS OF VOLUME 24—Continued.**


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- 69.** Return to an Order of the House of the 4th December, 1911, for a copy of all agreements between the Minister of Railways of Canada and any of the Brotherhood Unions or organizations of the employees of the Intercolonial Railway since 1898. Presented 15th January, 1912.—*Mr. Maclean (Halifax)*.. . . .*Not printed.*
- 70.** Return to an Order of the House of the 29th November, 1911, showing:—1. What persons were appointed to positions in the several departments between the date of the dissolution of the last parliament and the 31st September last. 2. On whose recommendation such appointments were made, and the salary attached to each position. 3. What appointments were made in the several departments between the 21st day of September last and the date of the resignation of the Laurier Ministry, on whose recommendation in each case and the salary of each appointee. Presented 15th January, 1912.—*Mr. Edwards*.. . . .*Not printed.*
- 70a.** Return to an Order of the House of the 22nd January, 1912, for a Return showing how many appointments have been made in the Department of Public Works and Post Office since the 7th day of October, 1911, in the inside service, and in the outside service respectively. Presented 12th February, 1912.—*Mr. Kyte*.. . . .*Not printed.*
- 71.** Return to an Address to His Royal Highness the Governor General of the 30th November, 1911, for a copy of all documents, &c., necessary to bring up to date the statement regarding the matters covered by Sessional Paper 109 of the Session of 1910-11 in reference to Canadian-Australain Trade.—*Mr. Ames.*  
*Printed for distribution and sessional papers.*
- 71a.** Return to an Order of the House of the 10th January, 1912, for a copy of all papers and correspondence relating to the negotiations that have been opened by the government for improved trade arrangements with the British West Indies and British Guiana. Presented 26th January, 1912.—*Mr. Murphy.*  
*Printed for distribution and sessional papers.*
- 72.** Return to an Address to His Royal Highness the Governor General of the 29th November, 1911, for a copy of all correspondence consisting of letters or telegrams, between the Salisbury and Harvey Railway Company or any officer thereof or any person, and the Minister of Railways or any other member of the government or any other person, and the Minister of Railways and Canals, relating to the re-opening of that portion of the railway of the said company between Hillsborough and Albert, and the supplying of rails and other materials for the purpose of repairing and improving the same, and also, of any Orders in Council, agreements and other documents relating thereto. Presented 15th January, 1912.—*Mr. Pugsley*.. . . .*Not printed.*
- 72a.** Return to an Address to His Royal Highness the Governor General of the 4th December, 1911, for a copy of all papers, correspondence and Orders in Council in connection with the awarding of the contract for the building of the Hudson Bay Railway, and of all orders suspending work on the same. Presented 15th January, 1912.—*Mr. Neely*.. . . .*Not printed.*
- 72b.** Return to an Order of the House of the 29th November, 1911, for a statement showing the amount of money paid by the Dominion Government to each of the railways in the provinces of Manitoba, Saskatchewan, Alberta, British Columbia and in the Northwest Territories by way of subsidies, and adding thereto the value of lands given as subsidies on the basis of one dollar per acre. Presented 15th January, 1912.—*Mr. McCraney*.. . . .*Not printed.*

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**CONTENTS OF VOLUME 24—Continued.**


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- 72c.** Return to an Address to His Royal Highness the Governor General 30th November, 1911, for a copy of all Orders in Council, petitions, telegrams, letters, agreements, correspondence and all other documents generally in connection with the proposed branch line or lines of railway to connect Montreal with the National Transcontinental Railway. Presented 15th January, 1912.—*Mr. Lapointe (Montreal)*  
*Not printed.*
- 72d.** Return to an Address to His Royal Highness the Governor General of the 4th December, 1911, for a copy of all papers, correspondence and Orders in Council in connection with the awarding of the contract for the building of the Transcontinental Railway Station at Quebec, and all orders suspending work on the same. Presented 15th January, 1912.—*Sir Wilfrid Laurier*. . . . .*Not printed.*
- 72e.** Statement of work done on the National Transcontinental Railway—Eastern Division—to 31st December, 1911, and estimate of cost of completion. Presented 16th February, 1912.—*Hon. Mr. Cochrane*. . . . .*Not printed.*
- 72f.** Return to an Order of the House of the 5th February, 1912, for a copy of all documents and of all the correspondence exchanged between A. E. Doucet, district engineer, on district B of the Transcontinental Railway, and of all other persons, relating to the selection of sites for railway stations in the parishes of St. Damien and St. Cajetan d'Armagh, in the county of Bellechasse. Presented, 18th March, 1912.—*Hon. Mr. Cochrane*. . . . .*Not printed.*
- 72g.** Return to an Address to His Royal Highness the Governor General of the 31st January, 1912, for a copy of all minutes of proceedings, records, orders, instructions or other writings made and had, or given or authorized to be made, had or given by the Board of National Transcontinental Railway Commissioners, from the date of the appointment of Mr. R. W. Leonard, as a member of the said Board and chairman thereof, to the present date; also of all letters, telegrams, instructions or other documents made or had or passed, since the said appointment, by and between the Minister of Railways and Canals, or other members of the government, or by any person by authority of the government, and the said Chairman of the Board of National Transcontinental Railway Commissioners, or the Secretary of said Board; also of any Orders in Council relating to the appointment of an assistant chairman or an assistant to the chairman of said Board, together with a copy of all letters, papers, instructions or documents relating thereto; as well as a statement of all payments of monies in the way of salaries or compensation made to the incumbent of the office of assistant chairman or assistant to the chairman of said Board, and of all papers, letters or instructions made, written or received by the said minister or the said chairman, relating to or in any way connected with the payment or authorization of said salary or compensation. Presented 20th March, 1912.—*Hon. Mr. Cochrane*.  
*Not printed.*
- 72h.** Interim Report of the Commissioners of the Transcontinental Railway, being for the nine months ended 31st December, 1911. Presented 22nd March, 1912, by Hon. Mr. Cochrane. . . . .*Not printed.*
- 73.** Return to an Order of the House of Commons of the 29th November, 1911 (so far as the Department of Agriculture is concerned), for a copy of all letters, telegrams, memorials, resolutions and other documents in the hands of the government, or any department thereof, in connection with the taking of the census in the city of Regina, and all complaints and protests in connection with the same; also, all departmental instructions, memoranda, reports and other documents. Presented 15th January, 1912.—*Mr. Knowles*. . . . .*Not printed.*

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**CONTENTS OF VOLUME 24—Continued.**

- 74.** Return showing:—1. The number of messengers in the House of Commons during the last session of the last parliament. 2. The names of the said messengers and the dates of their respective appointments. 3. The number of these messengers who have been relieved from service, their names, at whose request, for what reasons and on what date. 4. By whom have they been replaced. 5. Where are the residences of the new messengers and by whom were they recommended. 6. How many French Canadians have been dismissed and by whom have they been replaced. Presented 17th January, 1912.—*Hon. Mr. Speaker*. . . . . *Not printed.*
- 75.** Ordinances of the Yukon Territory passed by the Yukon Council in the year 1911. Presented 17th January, 1912, by *Hon. Mr. Roche*. . . . . *Not printed.*
- 76.** Return to an Address to His Royal Highness the Governor General of the 4th December, 1911, for a copy of all correspondence with and from the Secretary of State for the Colonies, or other minister of the Imperial government, in relation to the passage of legislation providing for uniformity in naturalization throughout the empire since the sittings of the Imperial Conference in June last. Presented 19th January, 1912.—*Mr. Macdonald*. . . . . *Not printed.*
- 77.** Return to an Address to His Royal Highness the Governor General of the 7th December, 1910, for a copy of the Report of the Imperial Defence Committee of the Privy Council in England concerning the defence of the empire, communicated to the Canadian Government, and of the despatches and correspondence exchanged between the Imperial and the Canadian Governments relating to the said report. Presented 22nd January, 1912.—*Hon. Mr. Monk*. . . . . *Not printed.*
- 78.** Return called for by Section 88 of Chapter 62, R.S.C., 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 22nd January, 1912.—*Hon. Mr. Rogers*. . . . . *Not printed.*
- 79.** Return to an Order of the House of the 17th January, 1912, for a copy of all letters, resolutions, telegrams and other communications or memorials in connection with the removal from the Moosejaw Land Office, of John Rutherford, lands agent, and the appointment (either temporary or permanent) of a new incumbent of the office. Presented 23rd January, 1912.—*Mr. Knowles*. . . . . *Not printed.*
- 79a.** Return to an Order of the House of the 15th January, 1912, for a copy of all letters, telegrams, reports, papers and correspondence, petitions or memoranda presented to the Government, or the Department of Public Works, or any official thereof, in connection with the dismissal of Captain Peter Decoste from the dredge *Cape Breton*. Presented 26th January, 1912.—*Mr. Chisholm (Antigonish)*. . . . . *Not printed.*
- 79b.** Return to an Order of the House of the 17th January, 1912, for a copy of all petitions, letters, telegrams and other documents in the possession of the Department of Public Works relating to the dismissal of Roderick Sutherland, caretaker of the public building at Canso, Nova Scotia. Presented 26th January, 1912.—*Mr. Sinclair*.  
*Not printed.*
- 79c.** Return to an Order of the House of the 17th January, 1912, for a copy of all letters, reports or other documents, relating to the removal from office of Mr. Eugene Baldwin, late of the Customs Service at Coaticook, Quebec. Presented 30th January, 1912.—*Mr. McLean (Halifax)*. . . . . *Not printed.*



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 CONTENTS OF VOLUME 24—*Continued.*

- 79d. Return to an Order of the House of the 5th February, 1912, for a copy of all documents, letters, petitions, reports, recommendations, declarations, proceedings of inquiry and all other documents relating to the dismissal of Médric Picotte as messenger of the House of Commons and the appointment of his successor, Henry Coffin. Presented 7th February, 1912.—*Mr. Seguin*... ..*Not printed.*
- 79e. Return to an Address to His Royal Highness the Governor General of the 5th February, 1912, for a copy of all letters, complaints, charges, telegrams, petitions, memorials, Orders in Council or other documents in the possession or under control of the government, relating to the dismissal of William A. Hattie, from the position of Preventive Officer at Mulgrave, Nova Scotia, and relating to the appointment of a man to fill the vacancy caused by such dismissal. Presented 12th February, 1912.—*Mr. Sinclair*... ..*Not printed.*
- 79f. Return to an Order of the House of the 31st January, 1912, for a copy of all letters, complaints, telegrams, evidence, reports, or other papers, relating to charges against Robert Leithead, James Blair, Duncan Gillis and Calvin McKenzie, all employees of the Intercolonial Railway in the county of Pictou, for partizanship and to the investigation of said charges. Presented 14th February, 1912.—*Mr. Macdonald*...*Not printed.*
- 79g. Return to an Order of the House of the 24th January, for a copy of all letters, telegrams and all other documents, and of all complaints and charges, in any way relating to the suspension of Joseph Venoit, checker on the Intercolonial Railway at Pictou, Nova Scotia. Presented 14th February, 1912.—*Mr. Macdonald*...*Not printed.*
- 79h. Return to an Order of the House of the 7th February, 1912, for a copy of all charges, letters, and other documents relating to complaints against John Connolly, of New Glasgow, coal inspector, for partizanship, the evidence taken in the investigation before H. P. Duchemin, and all other papers in connection therewith. Presented 14th February, 1912.—*Mr. Macdonald*... ..*Not printed.*
- 79i. Return to an Order of the House of the 5th February, 1912, for a copy of all letters, telegrams, petitions, complaints, charges or other documents in the possession of the Department of Customs relating to the dismissal of S. M. Ferguson, Preventive Officer at Oyster Ponds, county of Guysborough, Nova Scotia, and relating to an appointment of a man to fill the vacancy caused by such dismissal. Presented 19th February, 1912.—*Mr. Sinclair*... ..*Not printed.*
- 79j. Return to an Order of the House of the 22nd January, 1912, for a copy of all correspondence, letters, telegrams or other documents relating to the dismissal of P. J. Veniot, Collector of Customs at Bathurst, New Brunswick, and the appointment either permanent or temporary of his successor. Presented 19th February, 1912.—*Mr. Turgeon*... ..*Not printed.*
- 79k. Return to an Order of the House of the 12th February, 1912, for a copy of all letters, telegrams, petitions, charges, complaints, reports and other documents relating to the dismissal of Luke Day, (of the Department of Public Works), of North Sydney, Cape Breton. Presented 19th February, 1912.—*Mr. McKenzie*... ..*Not printed.*
- 79l. Return to an Order of the House of the 5th February, 1912, for a copy of all correspondence addressed to the Minister of Public Works in connection with the dismissal of George T. Harbour, superintendent of the work at the deep water wharf at Gaspé. Presented 22nd February, 1912.—*Mr. Lemieux*... ..*Not printed.*

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**CONTENTS OF VOLUME 24—Continued.**

- 79m.** Return to an Order of the House of the 12th February, 1912, for a copy of all letters, telegrams, petitions, charges, complaints, reports and other documents relating to the dismissal of D. McDonald, Esquire, M.D. (of the Department of Indian Affairs), of Baddeck, Cape Breton. Presented 26th February, 1912.—*Mr. McKenzie..Not printed.*
- 79n.** Return to an Order of the House of the 19th February, 1912, for a copy of all correspondence, petitions, requests, complaints, or other documents in the possession of the government, or any department thereof, relating to the dismissal of George Cavanagh from the Customs Service at New Glasgow, Nova Scotia. Presented 27th February, 1912.—*Mr. Macdonald.. . . .Not printed.*
- 79o.** Return to an Order of the House of the 14th February, 1912, for a copy of all charges, letters and documents of every kind with respect to the dismissal of John W. Bohan from the position of Preventive Customs Officer at Bath, in the county of Carleton, province of New Brunswick; also, a copy of all references for an investigation on any charges, if any, and a copy of all evidence adduced thereat, together with the recommendation of the official making such investigations. Presented 27th February, 1912.—*Mr. Carvell.. . . .Not printed.*
- 79p.** Return to an Order of the House of the 19th February, 1912, for a copy of all papers, letters, documents, &c., relating to the dismissal of Hector Hamel, assistant appraiser at the Montreal Custom House; and also, relating to his subsequent appointment as preventive officer. Presented 27th February, 1912.—*Mr. Lemieux. Not printed.*
- 79q.** Return to an Address to His Royal Highness the Governor General of the 12th February, 1912, for a copy of all letters, telegrams, petitions, charges, complaints, Orders in Council, reports or other documents in the possession of the Department of Customs relating to the dismissal of Lyman C. Smith from the Customs Collectorship at Oshawa, Ontario. Presented 27th February, 1912.—*Mr. Sinclair.. . . .Not printed.*
- 79r.** Return to an Order of the House of the 5th February, 1912, for a copy of the petitions forwarded to the Minister of Public Works praying for the dismissal of Michael Campeau, and the appointment of Honoré Paquette, as caretaker of the Postal Station in Laurier Ward, Montreal. Presented 1st March, 1912.—*Mr. Lemieux.. .Not printed.*
- 79s.** Return to an Order of the House of the 19th February, 1912, for a copy of all documents, letters, telegrams, requests, reports, recommendations and correspondence, regarding the removal or dismissal of Alexander R. McAdam, Fishery Officer for the county of Antigonish, and the appointment of a successor to him. Presented 4th March, 1912.—*Mr. Chisholm (Antigonish).. . . .Not printed.*
- 79t.** Return to an Order of the House of the 14th February, 1912, for a copy of all letters, correspondence, petitions, recommendations, complaints and other documents in the possession of the Department of Marine and Fisheries, relating to the dismissal of Fishery Guardians in the county of Guysborough, Nova Scotia. Presented 4th March, 1912.—*Mr. Sinclair.. . . .Not printed.*
- 79u.** Return to an Order of the House of the 19th February, 1912, for a copy of all correspondence, petitions, complaints, charges, or other documents in the possession of the Department of Marine and Fisheries, relating to the dismissal of Edward Kelly from the position of engineer at the Reduction Works at Canso, Nova Scotia. Presented 4th March, 1912.—*Mr. Sinclair.. . . .Not printed.*

CONTENTS OF VOLUME 24—*Continued.*

- 79v.** Return to an Order of the House of the 19th February, 1912, for a copy of all correspondence, petitions, complaints, charges or other documents in the possession of the Marine and Fisheries Department relating to the dismissal of David S. Hendsbee from the position of weigher at the Reduction Works at Canso, Nova Scotia. Presented 4th March, 1912.—*Mr. Sinclair*.. . . .*Not printed.*
- 79w.** Return to an Order of the House of the 26th February, 1912, for a copy of all documents, letters, requests, reports, recommendations and evidence taken under investigation by Dr. Shurtleff, relating to the dismissal of Anson Sheltus, of St. Armand Station, county of Missisquoi, a Preventive Officer of the Customs Department. Presented 5th March, 1912.—*Mr. Kay*.. . . .*Not printed.*
- 79x.** Return to an Order of the Senate dated the 30th January, 1912, calling for copies of all letters, papers or other documents in the hands of the government relating to the proposed removal of John Park, postmaster at Orangeville, Ontario.—(*Senate*.)
- 79y.** Return to an Order of the House of the 26th February, 1912, for a copy of all documents, letters, requests, reports, telegrams, recommendation and memoranda relating to the dismissal of James McPhee as Customs Officer at West Bay, Nova Scotia, and the appointment of a successor. Presented 6th March, 1912.—*Mr. Chisholm (Inverness)*.. . . .*Not printed.*
- 79z.** Return to an Order of the House of the 26th February, 1912, for a copy of all documents, letters, requests, reports, recommendations and memoranda relating to the dismissal of Allan Kennedy as General Government Telegraph Repairer, Inverness county, and the appointment of his successor. Presented 7th March, 1912.—*Mr. Chisholm (Inverness)*.. . . .*Not printed.*
- 79aa.** Return to an Order of the House of the 26th February, 1912, for a copy of all documents, letters, requests, reports and recommendations relating to the dismissal of Wenceslas Lebel, of Kamouraska, as preventive officer of the Customs Department. Presented 12th March, 1912.—*Mr. Lapointe (Kamouraska)*.. . . .*Not printed.*
- 79bb.** Return to an Order of the House of the 4th March, 1912, for a copy of all letters, complaints, charges and other documents connected with or giving any information as to the discharge of Thomas Hale, of Westville, Nova Scotia, as correspondent for the *Labour Gazette*. Presented 12th March, 1912.—*Mr. Macdonald*.. . . .*Not printed.*
- 79cc.** Return to an Order of the House of the 14th February, 1912, for a copy of all letters, petitions, charges, complaints and other documents in the possession of the government or any department thereof, relating to the dismissal of William A. Gerrior, customs preventive officer at Larry's River, N.S., and to the appointment of his successor. Presented 22nd March, 1912.—*Mr. Sinclair*.. . . .*Not printed.*
- 79dd.** Return to an Order of the House of the 26th February, 1912, for a copy of all documents, letters, requests, reports and recommendations relating to the dismissal of Auguste Hibert as postmaster at St. Pascal, county of Kamouraska. Presented 19th March, 1912.—*Mr. Lapointe (Kamouraska)*.. . . .*Not printed.*
- 79ee.** Return to an Order of the House of the 26th February, 1912, for a copy of all documents, letters, requests, reports and recommendations relating to the dismissal of Luc Lizotte as postmaster at St. Pacome, county of Kamouraska. Presented 19th March, 1912.—*Mr. Lapointe (Kamouraska)*.. . . .*Not printed.*
- 79ff.** Return to an Order of the House of the 19th February, 1912, for a copy of all correspondence, petitions, complaints or other documents in the possession of the Post Office Department, relating to the dismissal of Captain Alex. Roberts, postmaster at Canso, N.S., and the appointment of his successor. Presented 19th March, 1912.—*Mr. Sinclair*.. . . .*Not printed.*



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CONTENTS OF VOLUME 24—*Continued.*

- 79gg.** Return to an Order of the House of the 12th February, 1912, for a copy of all documents, reports, letters, complaints, &c., relating to the dismissal in 1896, of H. St. Amour, postmaster at St. Amour, county of Prescott, and the appointment of his successor. Presented 19th March, 1912.—*Mr. Proulx*. . . . .*Not printed.*
- 79hh.** Return to an Order of the House of the 7th February, 1912, for a copy of all letters, telegrams, petitions, complaints or other documents relating to the dismissal of W. H. Harris, postmaster, at White Head, N.S., and relating to the appointment of his successor. Presented 19th March, 1912.—*Mr. Sinclair*. . . . .*Not printed.*
- 79ii.** Return to an Order of the House of the 7th February, 1912, for a copy of all letters, telegrams, petitions, charges, complaints, reports and other documents in the possession of the Post Office Department relating to the proposed dismissal of James McGrath, postmaster at Aspen, Nova Scotia. Presented 19th March, 1912.—*Mr. Sinclair*. . . . .*Not printed.*
- 79jj.** Return to an Order of the House of the 7th February, 1912, for a copy of all documents, papers, petitions, letters, &c., relating to the dismissal of Louis Girard, postmaster at Ste. Angèle de Mérici, county of Rimouski, and relating to the appointment of his successor. Presented 19th March, 1912.—*Mr. Lapointe (Kamouraska)*.  
*Not printed.*
- 79lk.** Return to an Order of the House of the 22nd January, 1912, for a copy of all letters, reports or other documents relating to the removal from office on 1st May, 1903, of John Fraser, postmaster of Stellarton, Nova Scotia. Presented 19th March, 1912.—*Mr. Macdonald*. . . . .*Not printed.*
- 79ll.** Return to an Address to His Royal Highness the Governor General of the 17th January, 1912, for a copy of all petitions, requests, letters, recommendations, Orders in Council or other papers or documents in the possession or under the control of the Honourable the Postmaster General or the Post Office Department, relating to the dismissal of John M. Rogers, postmaster at East Roman Valley, N.S. Presented 19th March, 1912.—*Mr. Sinclair*. . . . .*Not printed.*
- 79mm.** Return to an Order of the House of the 5th February, 1912, for a copy of all correspondence and papers in connection with the appointment and subsequent dismissal of Eugene Guimond, as postmaster at St. Angele, county of Rimouski. Presented 20th March, 1912.—*Mr. Lemieux*. . . . .*Not printed.*
- 79nn.** Return to an Order of the House of the 28th February, 1912, for a copy of all charges made against Dougald R. Boyle, officer at West Arichat, Nova Scotia, and of all correspondence and telegrams between the Department of Marine and Fisheries or any official thereof and any other person in relation thereto. Presented 21st March, 1912.—*Mr. Kyte*. . . . .*Not printed.*
- 79oo.** Return to an Order of the House of the 28th February, 1912, for a copy of all charges made against Dr. J. R. McLeod, port physician at Port Hawkesbury, N.S., the evidence taken before H. P. Duchemin in support of such charges, and his report on the same, and of all correspondence and telegrams between the said H. P. Duchemin and the Department of Marine and Fisheries or any official thereof in relation thereto. Presented 21st March, 1912.—*Mr. Kyte*. . . . .*Not printed.*
- 79pp.** Return to an Order of the House of the 4th March, 1912, for a copy of all documents, correspondence, inquiries, accusations, petitions and reports in the Department of Railways and Canals, referring to the dismissal of Mr. Theophile Morice, an officer over the delivery of the coal of the Intercolonial Railway at Rivière du Loup. Presented 21st March, 1912.—*Mr. Gauvreau*. . . . .*Not printed.*

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 CONTENTS OF VOLUME 24—*Continued.*


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- 79qq.** Return to an Order of the House of the 24th January, 1912, for a copy of all letters, requests, petitions, telegrams, complaints or charges received by the Post Office Department since 10th October, 1911, relating to the postmaster at Glenelg, N.S. Presented 22nd March, 1912.—*Mr. Sinclair*.. . . .*Not printed.*
- 79rr.** Return to an Order of the House of the 18th March, 1912, for a copy of all letters, telegrams, complaints and other documents, relating to charges against Jas. W. Matheson, I.C.R. trackman at Meadowville, Pictou county, N.S., of the evidence taken and other proceedings of the investigation held on said charges, the reports thereon and of all representations in regard to the case from the Brotherhood of Trackmen. Presented 22nd March, 1912.—*Mr. Macdonald*.. . . .*Not printed.*
- 79ss.** Return to an Order of the House of the 26th February, 1912, for a copy of all letters, petitions, reports, charges or other documents in the possession of the Post Office Department relating to the dismissal of J.D. McFarlane, postmaster at Southwest Margaree, Nova Scotia, and the appointment of his successor. Presented 22nd March, 1912.—*Mr. Chisholm (Inverness)*.. . . .*Not printed.*
- 79tt.** Return to an Order of the House of the 4th March, 1912, for a copy of all papers and correspondence in connection with the removal of the postmaster at Rathburn, township of Mara, county of Ontario, and the change of the location of the post office at said point. Presented 22nd March, 1911.—*Mr. Pardee*.. . . .*Not printed.*
- 79uu.** Return to an Order of the House of the 6th March, 1912, for a copy of all papers, complaints, letters and other documents connected with or relating to the dismissal of John McLeod as postmaster at Denmark, Colchester county, N.S., and the appointment or suggested appointment of D. McLeod to the vacancy. Presented 22nd March, 1912.—*Mr. Macdonald*.. . . .*Not printed.*
- 79vv.** Return to an Order of the House of the 28th February, 1912, for a copy of all documents, letters, requests, reports and recommendations in the possession of the Post Office Department, relating to the dismissal of Doué Daoust, postmaster at Alfred, county of Prescott, and the appointment of his successor. Presented 22nd March, 1912.—*Mr. Proulx*.. . . .*Not printed.*
- 79ww.** Return to an Order of the House of the 5th February, 1912, for a copy of all documents, papers, inquiries, letters, &c., relating to the dismissal of Thomas Dionne, as postmaster of Cacouna, also the dismissal of Miss Saindon, of Cacouna, and the reinstallation of the said Thomas Dionne in the post office at Cacouna. Presented 22nd March, 1912.—*Mr. Gauvreau*.. . . .*Not printed.*
- 79xx.** Return to an Order of the House of the 7th February, 1912, for a copy of all documents, papers, petitions, recommendations, &c., relating to the request that was made to the Post Office Department for the dismissal of the postmaster at St. Anaclet, county of Rimouski. Presented 22nd March, 1912.—*Mr. Lapointe (Kamouraska)*.. . . .*Not printed.*
- 79yy.** Return to an Order of the House of the 13th March, 1912, for a copy of all letters, papers, documents, memoranda, telegrams and correspondence relating to the resignation of Donald E. McLean, late postmaster at Inverness, N.S. Presented 25th March, 1912.—*Mr. Chisholm (Inverness)*.. . . .*Not printed.*
- 79zz.** Return to an Order of the House of the 26th February, 1912, for a Return showing the number of postmasters removed from office in Shefford county since the 1st October, 1911; their names, post office addresses, dates of dismissal, reasons therefor, name of complainant in each case, names of new postmaster appointed to replace them;



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the charges laid against the dismissed postmasters, and whether charges were investigated before their removal from office; dates of different investigations, by whom held and was the accused postmaster present at said investigations in each case; names of any other postmasters in said county who may have charges laid against them; their names, offices, names of complainants in each case and nature of the complaints; will charges be investigated before the accused postmasters are removed from office; application made for these offices and name of applicant in each case. Presented 25th March, 1912.—*Mr. Boivin*... ..*Not printed.*

**79aaa.** Return to an Order of the House of the 11th March, 1912, for a copy of all charges against Arthur Brymer, fishery officer at L'Ardoise, N.S., and of all telegrams and other communications between the Minister of Marine and Fisheries, or any other officer of his department, and any other persons having reference to the same and in relation to the appointment of his successor. Presented 25th March, 1912.—*Mr. Kyte*... ..*Not printed.*

**79bbb.** Return to an Order of the House of the 11th March, 1912, for a copy of all charges against Lawrence G. Power, Superintendent of the Lobster Hatchery at Arichat, N.S., and of all letters, telegrams and other communications between the Minister of Marine and Fisheries or any officer in his department, and any other person, having reference to the same and in relation to the appointment of his successor. Presented 25th March, 1912.—*Mr. Kyte*... ..*Not printed.*

**79ccc.** Return to an Order of the House of the 13th March, 1912, for a copy of all papers, correspondence, telegrams, &c., concerning the dismissal of Joachim Godbout, light-house keeper at St. Laurent, Isle of Orleans, county of Montmorency. Presented 25th March, 1912.—*Mr. Lemieux*... ..*Not printed.*

**79ddd.** Return to an Order of the House of the 22nd January, 1912, for a copy of all papers and other documents concerning the proposed investigation against P. L. St. Pierre, postmaster at St. Paul d'Abbottsford, county of Rouville, Que. Presented 27th March, 1912.—*Mr. Lemieux*... ..*Not printed.*

**79eee.** Return to an Order of the House of the 11th March, 1912, for a copy of all letters, requests, complaints, depositions, reports of inquiry and of every other document in the possession of the Post Office Department relating to the dismissal of Doctor H. Dupre as postmaster of St. Robert, county of Richelieu, and to the appointment of a new postmaster. Presented 27th March, 1912.—*Mr. Cardin*... ..*Not printed.*

**79fff.** Return to an Order of the House of the 22nd January, 1912, for a tabulated statement showing the number of dismissals in the Post Office Department since the first day of October, 1911, in the nine provinces of the Dominion. Also, the names of the postmasters so dismissed, the locality, the cause of dismissal, the names of the petitioners praying for such dismissal in each case, and the names of the petitioners opposing said dismissals. Presented 27th March, 1912.—*Mr. Lemieux*... ..*Not printed.*

**79ggg.** Return to an Order of the House of the 11th March, 1912, for a copy of all letters, requests, complaints, depositions, reports of inquiry, and of every other document in the possession of the Post Office Department relating to the dismissal of Madam, the widow of Antoine St. Martin, as postmistress at St. Louis de Bonsecours, county of Richelieu, and to the appointment of a new postmaster. Presented 27th March, 1912.—*Mr. Cardin*... ..*Not printed.*

**79hhh.** Return to an Order of the House of the 24th January, 1912, for a copy of all correspondence, documents, recommendations and reports respecting the dismissal of Joseph Moreau, as postmaster at St. Germain, Kamouraska, in the year 1905. Presented 27th March, 1912.—*Mr. Lapointe*... ..*Not printed.*

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- 79iii.** Return to an Order of the House of the 20th March, 1912, for a copy of all papers, telegrams, letters, petitions and affidavits, relating to the dismissal of George Bourgoin, employed as statistician on the Lachine canal, also of all letters exchanged between the Minister of Public Works and the Minister of Railways and Canals concerning said dismissal. Presented 28th March, 1912.—*Mr. Lemieux.. ..Not printed.*
- 79jjj.** Return to an Order of the House of the 26th February, 1912, for a copy of all documents, letters, requests, reports and recommendations relating to the dismissal of Louis Dechesne, an employee of the Marine Department, on the river Ouelle wharf, county of Kamouraska. Presented 29th March, 1912.—*Mr. Lapointe.. ..Not printed.*
- 79kkk.** Return to an Order of the House of the 18th March, 1912, for a copy of all charges against A. M. Hatfield, fishery overseer of the county of Yarmouth, N.S., and of all letters, telegrams, and any other communications between the Minister of Marine and Fisheries or any officer of his department, and any other person, having reference to the same, in relation to the appointment of Mr. Hatfield's successor. Presented 30th March, 1912.—*Mr. Law.. ..Not printed.*
- 79lll.** Return to an Order of the House of the 11th March, 1912, for a copy of all letters, requests, complaints, depositions, reports of inquiry and every other document whatsoever, relating to the dismissal of Mr. J. O. Dauphinais as postmaster of Sorel, county of Richelieu, and also of all letters, requests or other documents relating to the appointment of the new postmaster at Sorel. Presented 30th March, 1912.—*Mr. Cardin.. ..Not printed.*
- 79mmm.** Return to an Order of the House of the 11th March, 1912, for a copy of all documents, letters, papers, requests, inquiries and reports respecting the dismissal of Mr. Joseph Cloutier, postmaster of St. Adolphe de Dudswell. Presented 30th March, 1912.—*Mr. Tobin.. ..Not printed.*
- 80.** Return to an Order of the House of the 17th January, 1912, showing:—1. The quantity in tons of anthracite dust and Culm coal imported into Montreal during the year 1911. 2. The quantities of the same imported into other ports of the province of Quebec during the year 1911. 3. The duty collected on this product, if any, under the ruling of the Customs Department; the rate of duty and amount collected. 4. The value of said product as imported and entered at Montreal and the other ports. 5. The quantity in tons and the value of bituminous slack coal imported during the year 1911 into the port of Montreal and the various other ports, respectively, in the province of Quebec, and the duty collected thereon. Presented 25th January, 1912.—*Mr. Macdonald.. ..Not printed.*
- 81.** Return to an Order of the House of the 15th January, 1912, showing the quantities, the different kinds as far as practicable, and prices of all boots and shoes imported into Canada during each of the fiscal years ending respectively 31st March, 1908, 1909 and 1910, together with the several countries from which the same were imported, giving the quantities, &c., from each country for each year. Presented 2nd February, 1912.—*Mr. Carvell.. ..Not printed.*
- 82.** Return to an Address to His Royal Highness the Governor General of the 24th January, 1912, for a copy of all the correspondence between the Prime Minister of Canada, or any member of the Government, and Messieurs Fielding and Paterson, during the time the latter gentlemen were in Washington last year, on the subject of the negotiations for a Reciprocity Treaty between Canada and the United States. Presented 2nd February, 1912.—*Mr. Bradbury.. ..Printed for distribution and sessional papers.*

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**CONTENTS OF VOLUME 24—Continued.**


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- 82a.** Return to an Address to His Royal Highness the Governor General of the 24th January, 1912, for a copy of all correspondence from the 1st day of January, 1910, to the 1st October, 1911, between the Right Honourable James Bryce, British Ambassador at Washington, and the Government of Canada, or any member thereof with reference to the negotiations for Reciprocity Treaty between Canada and the United States. Presented February, 1912.—*Mr. Bradbury.*  
*Printed for distribution and sessional papers.*
- 83.** Return to an Address to His Royal Highness the Governor General of the 31st January, 1912, for a copy of the letters patent relating to the office of Governor General of Canada, of the Commission issued to the present Governor General, and of the instructions accompanying the same. Presented 2nd February, 1912.—*Mr. Macdonald.*  
*Printed for sessional papers.*
- 84.** Return to an Address to His Royal Highness the Governor General of the 22nd January, 1912, for a copy of the treaty between Great Britain, the United States and Russia for the suspension of pelagic sealing, and all correspondence regarding the same from the initial negotiations to the present day. Presented 5th February, 1912.—*Sir Wilfrid Laurier.* . . . . .*Printed for sessional papers.*
- 85.** Return to an Order of the House of the 22nd January, 1912, showing whether the government or the Montreal Harbour Commission purchased any cement for its different works, from the 1st January, 1905, to the 21st September, 1911; if so, from whom purchased; the price paid, and were tenders called for before purchasing. Presented 5th February, 1912.—*Mr. Boulay.* . . . . .*Not printed*
- 86.** Copy Fifth Report of the Commission for the Demarcation of the Meridian of the 141st Degree of West Longitude.—(*Senate*).. . . .*Printed for sessional papers.*
- 87.** Return to an order of the House of the 22nd January, 1912, showing:—1. How many farm labourers and domestic servants have been placed by each employment agent in Eastern Canada, or whom a commission has been paid, during each of the years 1907, 1908, 1909, 1910, 1911, and up to date in the month of January, 1912. 2. The total amount of commission paid to each of such agents in each of the years mentioned, and the counties and provinces in which they are located. Presented 5th February, 1912.—*Mr. Sutherland.* . . . . .*Not printed.*
- 88.** Return to an Order of the House of the 22nd January, 1912, showing how many home-stead inspectors were employed in the province of Saskatchewan by the Department of the Interior on 1st October, 1911, and what were their names; names of any of these inspectors who have been dismissed from office; reasons for dismissal; names of persons appointed to the positions so vacated, giving their previous occupations, respectively. Presented 8th February, 1912.—*Mr. Thompson.* . . . . .*Not printed.*
- 89.** Return to an Order of the House of the 22nd January, 1912, for a copy of all papers, letters, telegrams and other documents relative to prosecutions under the Fishery Act against John McCabe, David Porter, Joseph Foster and Duncan Murray, in the county of Pictou; and also, relating to a suit of Porter *vs.* Murray in the County Court of District No. 5, Nova Scotia, and the connection of the department with the same. Presented 9th February, 1912.—*Mr. Macdonald.* . . . . .*Not printed.*
- 90.** Copy P.C. 19/168 certified extract from the minutes of a meeting of the Treasury Board, held on the 22nd January, 1912, approved by His Royal Highness the Governor General in Council on the 27th January, 1912.—(*Senate*)... . . . .*Not printed.*



CONTENTS OF VOLUME 23—*Continued.*

CONTENTS OF VOLUME 24—*Continued.*

91. Return to an Address to His Royal Highness the Governor General on the 5th February, 1912, for a copy of all papers, letters, Orders in Council and other documents respecting the superannuation of the Honourable Judges Sir Alexandre Lacoste, J. A. Ouimet and C. J. Doherty. Presented 9th February, 1912.—*Mr. Ethier.*  
*Not printed.*
92. Return showing certain dates returned to Senate by Messrs. A. E. Forget, &c.—(*Senate*).  
*Not printed.*
93. Return to an Order of the House of the 22nd January, 1912, for a copy of all letters, correspondence, reports or other documents relating to the erection of an armoury at the town of Sarnia, Ontario. Presented 13th February, 1912.—*Mr. Pardee.*  
*Not printed.*
94. Return to an Address to His Royal Highness the Governor General of the 22nd January, 1912, for a copy of all correspondence between the Government of Canada and the Government of the province of Quebec, with regard to the extension of the boundaries of the said province. Presented 13th February, 1912.—*Sir Wilfrid Laurier.*  
*Printed for distribution and sessional papers.*
95. Return to an Order of the House of the 29th January, 1912, for a copy of all correspondence, representations, estimates, letters, telegrams and other documents received by the Right Honourable Prime Minister, or by any member of the Government, in any way relating to the subject of a car ferry service between the province of Prince Edward Island and the mainland, across the Straits of Northumberland, and the widening of the gauge of the Prince Edward Island Railway; and also, as to the estimated cost of all such work. Presented 13th February, 1912.—*Mr. Emmerson.*  
*Not printed.*
- 95a. Supplementary Return to an Order of the House, of the 29th January, 1912, for a copy of all correspondence, representations, estimates, letters, telegrams and other documents received by the Right Honourable Prime Minister, or by any member of the Government, in any way relating to the subject of a car ferry service between the province of Prince Edward Island and the mainland, across the Straits of Northumberland, and the widening of the gauge of the Prince Edward Island Railway and also as to the estimated cost of all such work. Presented 7th March, 1912.—*Mr. Emmerson.* . . . . .*Not printed.*
- 95b. Return to an Order of the House of the 5th February, 1912, for a copy of all letters, telegrams, or other documents containing applications or requests for the establishment of a car ferry service between Prince Edward Island and the mainland and of all correspondence, telegrams, reports, survey, and other documents showing the cost of the same, and of widening the gauge of the Prince Edward Island Railway; together with all other information available as to the desirability or necessity of said projects. Presented 7th March, 1912.—*Mr. Pardee.* . . . . .*Not printed.*
96. Return to an Order of the House of the 17th January, 1912, for a copy of all correspondence between the Department of Railways and Canals, or any official thereof, and the Saint John Railway Company, or the municipality of the city and county of St. John, on the subject of the granting of permission to the Saint John Railway Company, to lay its rails across the track of the Intercolonial Railway at or near the Haymarket Square in the city of St. John. Presented 13th February, 1912.—*Mr. Pugsley.* . . . . .*Not printed.*

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### CONTENTS OF VOLUME 24—*Continued.*

- 96a.** Supplementary Return to an Order of the House of the 17th January, 1912, for a copy of all correspondence between the Department of Railways and Canals, or any official thereof, and the Saint John Railway Company, or the municipality of the city and county of St. John, on the subject of the granting of permission to the Saint John Railway Company, to lay its rails across the track of the Intercolonial Railway at or near the Haymarket Square in the city of St. John, New Brunswick. Presented 14th February, 1912.—*Mr. Pugsley*... ..*Not printed.*
- 97.** Return to an Order of the House of the 17th January, 1912, for a copy of all papers, reports, correspondence and messages respecting a report made in 1904 by H. Boulay of Sayabec, against William Roy, sectionman at Amqui, Intercolonial Railway, and of all that has been subsequently done to give effect to that report. Presented 14th February, 1912.—*Mr. Boulay*... ..*Not printed.*
- 97a.** Return to an Order of the House of the 7th February, 1912, for a copy of all letters, papers, charges, affidavits and other documents relating to a charge against W. W. Gray, coal inspector of the Intercolonial Railway at Westville, Nova Scotia, and of all evidence, documents, reports, or other papers connected with the investigation of said charge by H. P. Duchemin. Presented 14th February, 1912.—*Mr. Macdonald.*  
*Not printed.*
- 98.** Return to an Order of the House of the 17th January, 1912, for a copy of all papers, letters, recommendations, ministerial instructions, and any other document, from the Department of Customs relating to a temporary change in the customs tariffs upon the twine used in the headings of lobster traps. Presented 15th February, 1912.—*Mr. McLean*... ..*Not printed.*
- 99.** Return to an Order of the House of the 5th February, 1912, for a copy of all papers, memorials, resolutions and letters received from boards of trade, officials or individuals during the years 1908, 1909, 1910, 1911, 1912, respecting the location of a quarantine or inspecting station on Lawlor's Island, Halifax harbour, accompanied by a chart. Presented 16th February, 1912.—*Mr. McLean*... ..*Not printed.*
- 100.** Return to an Address to His Royal Highness the Governor General of the 5th February, 1912, for a copy of all papers, correspondence and Orders in Council, relating to or in any way connected with the surveying and calling for tenders for the construction of the line of railway from Estmere to Baddeck, in the county of Victoria. Presented 16th February, 1912.—*Mr. McKenzie*... ..*Not printed.*
- 100a.** Return to an Address to His Royal Highness the Governor General of the 22nd January, 1912, for a copy of all papers, correspondence, and other Orders in Council in connection with the calling for tenders for the construction of the proposed branch line of railway from Estmere to Baddeck, in the county of Victoria, or bearing upon the reason why none of all said tenders were not accepted. Presented 16th February, 1912.—*Mr. McLean*... ..*Not printed.*
- 100b.** Return to an Order of the House of the 4th March, 1912, for a copy of all letters, contracts, memoranda, or notice cancelling contracts, and of all other papers and documents in the possession of the Department of Railways and Canals, bearing date after 1st January, 1911, relating to the construction of certain branch lines of the Intercolonial Railway between Sunny Bræ and Guysborough and Country Harbour, and between Dartmouth and Dean Settlement, in the province of Nova Scotia. Presented 21st March, 1912.—*Mr. Sinclair*... ..*Not printed.*



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### CONTENTS OF VOLUME 24—*Continued.*

- 101.** Return to an Address to His Royal Highness the Governor General of the 15th January, 1912, for a copy of Orders in Council and all correspondence between the Government and the Winnipeg and Hudson's Bay Railway Company and its successor the Winnipeg Great Northern Railway, relative to the proposed route of said Railway to Hudson's Bay, with all accompanying plans and reports; also a copy of all correspondence relative to the offer of Milburn and Company, Steamship owners, of England, said to have been made to the Government through the said Railway Company to place a line of their steamships on the route between Hudson's Bay and England on the completion of said Railway, and the further offer by the said Milburn and Company to place one of their Baltic steamships at the disposal of the Government for the purpose of making a practical test of the navigability of the route for commercial purposes. Presented 16th February, 1912. —*Mr. Aikins.*  
*Not printed.*
- 101a.** Return to an Order of the House of the 26th February, 1912, for a copy of all reports, surveys, plans and maps made or prepared during the year 1911 or this year, in respect of or in connection with the Hudson Bay Railway or the suggested ports at Nelson or Churchill on the Hudson Bay, or relating to the navigation of the Hudson straits. Presented 4th March, 1912.—*Mr. Aikens.*  
*Printed for distribution and sessional papers.*
- 102.** Return to an Order of the House of the 5th February, 1912, for a copy of the inquiry made by the Railway Department respecting the accident incurred by Goffrey Bourque, of Lac au Saumon, in the yard of the Intercolonial Railway at Campbellton, in the month of November or December, 1911; also, for all papers and correspondence exchanged since on this subject. Presented 16th February, 1912.—*Mr. Boulay.*  
*Not printed.*
- 103.** Return to an Order of the House of the 14th February, 1912, for a copy of all correspondence, letters, telegrams, &c., between the King's Printer, the Superintendent of Printing, and the King's Printers' Representatives in Winnipeg, regarding the printing and distribution of the Voters' Lists of the province of Manitoba at the last general elections. Presented 19th February, 1912.—*Mr. Staples.* . . . *Not printed.*
- 104.** Return to an Order of the House of the 17th January, 1912, for a copy of the Report of the Board of Engineers appointed for the reconstruction of the Quebec bridge, and of the plans and specifications prepared by them; of all notices calling for tenders; of all tenders received; of the report of the Board on the same, collectively or individually, to the Minister of Railways; of the report of the said minister for the acceptance of tenders, and any Orders in Council awarding contracts for the building of the said bridge. Presented 19th February, 1912.—*Sir Wilfrid Laurier.*  
*Printed for sessional papers.*
- 105.** Return to an Address to His Royal Highness the Governor General of the 12th February, 1912, for a copy of all Orders in Council passed during the last ten years relating to the abolition or regulation of tolls on canals. Presented 19th February, 1912.—*Mr. Sinclair.* . . . *Not printed.*
- 106.** Return to an Order of the House of the 12th February, 1912, for a copy of all petitions, letters and memorials received by the Minister of Marine and Fisheries since the first day of October, 1911, protesting against the issuing of a fish-trap license to Captain John T. Thorburn, Sand Point, county of Shelburne, Nova Scotia. Presented 22nd February, 1912.—*Mr. Law.* . . . *Not printed.*
- 106a.** Return to an Order of the Senate, dated 22nd March, 1912, for the production of all petitions and correspondence in relation to the removal of a fish trap at or near McNutts Island, in the harbour of Shelburne.—(*Senate*)... . *Not printed.*

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 CONTENTS OF VOLUME 24—*Continued.*

- 107.** Return to an Order of the Senate, dated 15th February, 1912, showing the names, position and pay of all persons appointed to the Intercolonial Railway service in the city of St. John, New Brunswick, from 1st September, 1907, to 1st March, 1911.—(*Senate*).  
*Not printed.*
- 108.** Certified copy of a Report of the Committee of the Privy Council, approved by His Royal Highness the Governor General on the 22nd February, 1912, referring certain questions to the Supreme Court of Canada in respect to Bill No. 3, of the First Session of the Twelfth Parliament of Canada, intituled: "An Act to amend the Marriage Act." Presented 23rd February, 1912.—*Hon. Mr. Doherty. Printed for sessional papers.*
- 108a.** Return to an Order of the House of the 19th February, 1912, for a copy of all letters, petitions, memorials or other documents received by the Prime Minister or any other member of the government, relating to the passage of a federal marriage law or legislation in regard to the so-called effect of the Ne Temere Decree. Presented 25th March, 1912.—*Mr. Macdonald. . . . . Printed for sessional papers.*
- 109.** Return to an Order of the House of the 17th January, 1912, for a copy of all papers, letters, recommendations, petitions, ministerial instructions and other documents in the possession of the Department of Marine and Fisheries relating to the price from 31st March, 1911, of Dog Fish scrap. Presented 23rd February, 1912.—*Mr. Sinclair.*  
*Not printed.*
- 110.** Return to an Address of His Royal Highness the Governor General of the 5th February, 1912, for a copy of all correspondence, memorials or communications of any kind between the government of the province of Ontario and the Dominion Government since 1st January, 1908, respecting the extension of the boundaries of the province of Manitoba or the division of the Territory of Keewatin. Presented 23rd February, 1912... ..*Not printed.*
- 110a.** Return to an Address to His Royal Highness the Governor General of the 4th December, 1911, for a copy of all papers, letters, telegrams, memoranda or correspondence of any kind had between the Dominion Government and the governments of Manitoba and Saskatchewan, or with the Government of Ontario, as to the settlement of the boundaries of said respective provinces; and also, of any agreement or memo. containing any terms of settlement of the questions relating to the boundaries of said provinces or any part thereof; and also, of any documents, letters or representations made to the Federal Government by any person or persons relative to said settlement or the questions involved therein. Presented 26th February, 1912.—*Mr. Macdonald.*  
*Printed for sessional papers.*
- 110b.** Return to an Address of His Royal Highness the Governor General of the 5th February, 1912, for a copy of all correspondence, memorials or communications of any kind between the Government of the province of Ontario and the Dominion Government since 1st January, 1908, respecting the extension of the boundaries of the province of Manitoba or the division of the territory of Keewatin. Presented 26th February, 1912.—*Mr. Meighen. . . . . Printed for sessional papers.*
- 111.** Return to an Address of the Senate, dated 24th January, 1912, for copies of the contracts between the Government of Canada, and the various steamship companies for the carriage of the mails between England, France and Canada, and all the correspondence relating thereto since the first of January, 1909; also, the agreements, if any, for the carriage of mails via New York. Further, any contracts, subsidy agreements, &c., for the conveyance of mail between Canada and Newfoundland, and the correspondence relating thereto since the first of January, 1909.—(*Senate*).  
*Printed for sessional papers.*

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 CONTENTS OF VOLUME 24—*Continued.*

112. Memorandum of the Chief Architect to the Deputy Minister of the Department of Public Works relative to the "Forbes Sterilizers" in use in the House of Commons and several departments. Presented 26th February, 1912.. . . .*Not printed.*
113. Return to an Order of the House of the 5th February, 1912, for a copy of all reports, correspondence and papers relating to the building of the Saint John Valley Railway from Saint John to Grand Falls, New Brunswick. Presented 27th February, 1912.—*Mr. Michaud*.. . . .*Not printed.*
114. Return to an Order of the House of the 14th February, 1912, for a copy of all documents, papers, correspondence, inquiries, evidences, reports, &c., relating to an accident sustained by Alphonse Madore, employed on the Intercolonial at Ste. Flavie, in 1888 or 1889, and to the settling of the claim then made by the said Alphonse Madore to the Department of Railways and Canals. Presented 27th February, 1912.—*Mr. Lapointe (Kamouraska)*.. . . .*Not printed.*
- 114a. Return to an Order of the House of the 4th March, 1912, for a copy of all inquiries, correspondence whatsoever relating to the death of the late Absolon Lavoie, of Amqui, accidentally killed on the Intercolonial Railway at Metis, county of Rimouski, during the summer of 1911. Presented 18th March, 1912.—*Mr. Boulay*..*Not printed.*
- 114b. Return to an Order of the House of the 4th March, 1912, for a copy of all papers, documents, letters, &c., connected with an inquiry made by the Intercolonial authorities on the loss of a horse killed on the Dalhousie branch, belonging to Mr. Xavier St. Laurent, of Causapsca since 1905. Presented 26th March, 1912.—*Mr. Lapointe (Kamouraska)*.. . . .*Not printed.*
115. Return to an Order of the House of the 31st January, 1912, for a copy of all papers, statements, letters, telegrams, statement of claim and application, minutes of the evidence taken on any investigation held, with all reports thereon, and all other documents in any way relating to a claim of Earl Ash, for damages caused by and resulting from the destruction by fire of property owned, occupied and possessed by the claimant, alleged to have been caused by fire and sparks from a locomotive of the Intercolonial Railway of Canada, and operated by said railway. Presented 27th February, 1912.—*Mr. Emmerson*.. . . .*Not printed.*
- 115a. Return to an Order of the House of the 26th February, 1912, for a copy of all letters, evidence taken under investigation by Superintendent Sharp, reports and other documents connected with a claim for damages occasioned by fire to the property of Angus J. McAulay, of Tracadie, Prince Edward Island, on the 16th day of July, 1911. Presented 1st March, 1912.—*Mr. Macdonald*.. . . .*Not printed.*
116. Return to an Order of the House of the 26th February, 1912, for a copy of all papers, documents, &c., concerning the incorporation and operations of the Fidelity Trust Company of Montreal. Presented 28th March, 1912.—*Mr. McKenzie*.....*Not printed.*
117. Return to an Order of the Senate, dated the 31st January, 1912, for copies of Acts, documents, correspondence, &c., concerning the expropriation of the properties of F. Turgeon and F. Gunn, in the city of Quebec for the purpose of a Central station.—(*Senate*).. . . .*Not printed.*
118. Return to an Order of the House of the 26th February, 1912, for a copy of all papers and correspondence relating to the incorporation and operations of The Provident Trust Company, of Montreal. Presented 1st March, 1912.—*Mr. Lemieux*..  
*Not printed.*



CONTENTS OF VOLUME 24—*Continued.*

- 119.** Return to an Address to His Royal Highness the Governor General of the 10th January, 1912, for a copy of all Orders or Minutes of Council relating to the appointment of commissioners under the treaty with the United States relating to boundary waters, and questions arising along the boundary between Canada and the United States, signed at Washington, 11th January, 1909; together with a copy of all despatches, letters and telegrams between the Governor General, or the Government of Canada, or any member thereof, and the British ambassador at Washington, or the British Government, or any member thereof, upon that subject; and also, of all letters and telegrams between any member or department of the government and Sir George Gibbons, Mr. Aimé Geoffrion and Mr. Alexander Barnhill, or either of them, relating to their appointment as such commissioners. Presented 1st March, 1912.—*Mr. Pugsley*... ..*Printed for sessional papers.*
- 120.** Return to an Address to His Royal Highness the Governor General of the 29th November, 1911, for a copy of all correspondence since the first of July, 1896, to the present date, between the Government of Canada and the governments of the several provinces on the subject of assistance to provincial railways and other provincial public works. Presented 1st March, 1912.—*Sir Wilfrid Laurier*... ..*Printed for sessional papers.*
- 121.** Return to an Order of the House of the 26th February, 1912, for a copy of all papers and documents in the case of *Rex vs. Sheldon* and others. Presented 5th March, 1912.—*Mr. McKenzie*... ..*Not printed.*
- 122.** Return to an order of the House of the 26th February, 1912, for a copy of all papers, correspondence and documents in connection with the case of D. Raymond, petitioner, the Queen's Hotel Company, Limited, respondent, and Guillaume Narcisse Ducharme and others, party defendants. Presented 5th March, 1912.—*Mr. Lemieux*... ..*Not printed.*
- 123.** Return to an Order of the Senate dated 9th February, 1912, showing the terms of lease to the whaling company or companies for whale fishing on the coast of British Columbia, giving the extent of sea over which exclusive rights are given, rent paid, and restriction as to close season, and all other particulars relating to this subject.—(*Senate*)... ..*Not printed.*
- 123a.** Return to an Address of the Senate dated 9th February, 1912, for a return showing the term of lease by the government to a company giving rights to exclusive fishing in the fresh water lakes of the Dominion; with all conditions as to time, rent, sub-letting and close season, and any other information relating to this subject.—(*Senate*)... ..*Not printed.*
- 124.** Return to an Address of the Senate, dated 22nd February, 1912, for all correspondence respecting the inefficient postal delivery service at *Rothsay, N.B.*—(*Senate*)... ..*Not printed.*
- 125.** Laid before the House, by command of His Royal Highness the Governor General,—Copy of agreement between His Majesty the King on behalf of the Dominion of Canada, His Majesty on behalf of the province of New Brunswick, and the Saint John and Quebec Railway Company, for the leasing under terms and conditions specified, of the line of railway when completed, of the company, between Grand Falls and Saint John, N.B. Presented 11th March, 1912... ..*Not printed.*
- 126.** Return to an Order of the House of the 22nd January, 1912, or a copy of all correspondence and papers referring to the granting of special aid to the tobacco growers of *La Société Co-opérative de la Vallée de Yamaska*. Presented 13th March, 1912.—*Mr. Lemieux*... ..*Not printed.*

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 CONTENTS OF VOLUME 24—*Continued.*


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- 127.** Return to an Order of the House of the 22nd January, 1912, for a copy of all letters, correspondence, reports or other documents relating to the proposed winter harbour at Sarnia, Ontario. Presented 13th March, 1912.—*Mr. Pardee.* . . . .*Not printed.*
- 127a.** Return to an Order of the House of the 26th February, 1912, for a copy of all reports, petitions and correspondence in the possession of the Department of Public Works, relating to the improvement of Port Dover harbour, in Norfolk county, Ontario; together with all papers or documents relating to the connection of the Grand Trunk Railway Company therewith. Presented 29th March, 1912.—*Mr. Charlton.*  
*Not printed.*
- 127b.** Supplementary Return to an Order of the House of the 26th February, 1912, for a copy of all reports, petitions and correspondence in the possession of the Department of Public Works, relating to the improvement of Port Dover harbour, in Norfolk county, Ontario, together with all papers or documents relating to the connection of the Grand Trunk Railway Company therewith. Presented 1st April, 1912.—*Mr. Charlton.* . . . .*Not printed.*
- 128.** Certified extract from the Minutes of a meeting of the Treasury Board held on the 4th March, 1912, approved by His Royal Highness the Governor General in Council on the 9th March, 1912, respecting the term of service and pay of the constables of the Royal Northwest Mounted Police. Presented 13th March, 1912... .*Not printed.*
- 129.** Return to an Order of the House of the 5th February, 1912, for a copy of all reports, correspondence and papers, relating to the building of a breakwater at Port Richmond, Nova Scotia. Presented 14th March, 1912.—*Mr. Kyte.* . . . .*Not printed.*
- 129a.** Return to an Order of the House of the 5th February, 1912, for a copy of all reports, correspondence and papers relating to the building of a breakwater at Charles Forests Cove, Richmond county, Nova Scotia. Presented 18th March, 1912.—*Mr. Kyte.*  
*Not printed.*
- 130.** Return to an Order of the House of the 4th March, 1912, for a copy of all correspondence between the Intercolonial authorities, the Minister of Railways and the Department of Justice, and all other persons, relating to a claim of the Metapedia Waterworks Company against the Intercolonial, including therein all plans, designs, inquiries, evidences and other reports concerning this matter; also a copy of all plans, designs, notices and correspondence between the Intercolonial authorities and M. P. Laberge, the Dominion Lumber Company and John Fenderson & Co., relating to the placing of an aqueduct pipe on the land No. 170 of the cadastre of St. Pierre du Lac. Presented 15th March, 1912.—*Mr. Boulay.* . . . .*Not printed.*
- 131.** Statement of the affairs of the British Loan and Investment Company, as on the 31st December, 1911. Presented 18th March, 1912... .*Not printed.*
- 132.** Return to an Order of the House of the 6th March, 1912, for a copy of all letters, complaints, charges, and other papers and documents in the possession of the Post Office Department relating to Tracadie Road Post Office, Guysborough, N.S. Presented 19th March, 1912.—*Mr. Sinclair.* . . . .*Not printed.*
- 133.** Return to an Order of the House of the 6th March, 1912, for a copy of the news sent up to date to Magdalen Island by the weekly correspondent appointed by the Postmaster General; also for a copy of the instructions given said correspondent at the time of his appointment. Presented 19th March, 1912.—*Mr. Lemieux.* . .*Not printed.*



### CONTENTS OF VOLUME 24—*Continued.*

134. Return to an Order of the House of the 5th February, 1912, for a copy of all letters, telegrams, petitions, reports and documents relating to the notice of cancellation of mail contract between Scott Junction and the station in the county of Beauce. Presented 19th March, 1912.—*Mr. Béland*... ..*Not printed.*
- 134a. Return to an Order of the House of the 31st January, 1912, for a copy of all letters, telegrams, correspondence, reports and other documents in relation to the mail contract between River John Railway station and the post office, and between River John and Hodson, respectively, since 1st October, 1911, and as to the cancellation of the contract for said service with Logan and the making of a contract for the same with one Gannon. Presented 19th March, 1912.—*Mr. Macdonald*... ..*Not printed.*
- 134b. Return to an Order of the House of the 31st January, 1912, for a copy of all letters, telegrams, reports and other documents in relation to the mail contract service between Stellarton station and the post office since 1st October, 1911, and as to the cancellation of the contract for said service with the present contractor. Presented 19th March, 1912.—*Mr. Macdonald*... ..*Not printed.*
- 134c. Return to an Order of the House of the 5th February, 1912, for a return showing all the contracts for the conveyance of His Majesty's mails, in which notice of cancellation has been given under the terms of the said contract, between 10th October, 1911, and 1st February, 1912, and also the name and address of each contractor and the amount of each contract. Presented 27th March, 1912.—*Mr. Lemieux*.  
*Not printed.*
135. Return to an Address to His Royal Highness the Governor General of the 17th January, 1912, for a copy of the Parcel Post Convention between Canada and France, and all papers connected therewith. Presented 19th March, 1912.—*Mr. Lemieux*.  
*Not printed.*
136. Return to an Order of the House of the 22nd January, 1912, for a copy of all letters, telegrams, reports, recommendations applications and other documents, relating to the appointment of a post office inspector at Moosejaw, Saskatchewan. Presented 19th March, 1912.—*Mr. Knowles*... ..*Not printed.*
137. Return to an Address to His Royal Highness the Governor General, on the 4th March, 1912, for a copy of all letters, telegrams and petitions, sent to the Government, or any of His Majesty's ministers, praying for the establishment of a separate school system in the Keewatin Territory. Presented 20th March, 1912.—*Mr. Lemieux*...*Not printed.*
138. Return to an Address to His Royal Highness the Governor General of the 28th February, 1912, for a copy of all papers, recommendations to Council, Orders in Council, or any other papers in connection with or having reference to the promotion of Mr. Binks to be Superintendent of the Dead Letter Office. Presented 28th March, 1912.—*Mr. Henderson*... ..*Not printed.*
139. Return dated 12th March, 1912, for a copy of all correspondence between the Anglo-Canadian Chemical Company, and the Department of the Inland Revenue from 1st of January, 1911, to date.—(*Senate*)... ..*Not printed.*
140. Return to an Order of the House of the 26th February, 1912, for a copy of all papers on file with the Government and of all letters, telegrams and correspondence between the Labour Department and the Board of Conciliation in relation to the strike now and for some time past existing on the Grand Trunk Pacific Railway west of Winnipeg. Presented 21st March, 1912.—*Mr. MacNutt*... ..*Not printed.*

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141. Return to an Order of the House of the 5th February, 1912, for a copy of all rulings or decisions made by the Minister of Customs, or the Tariff Board of the Department of Customs, since the 10th of October last, in reference to the duty payable in respect to Jute cloth, traction engines and partially dressed lumber, respectively; and likewise in reference to any other articles imported into Canada concerning which there has been any change in the rate of duty exacted at any time since the said date, as compared to the rate of duty exacted on such articles respectively immediately prior to said date. Presented 21st March, 1912.—*Mr. Turri#*. . . . .*Not printed.*
142. Return to an Order of the House of the 5th February, 1912, for a copy of all letters, telegrams, petitions or other papers relating to any change or proposed change of postmasters at Powassan between 1st January, 1906, and 1st January, 1912. Presented 22nd March, 1912.—*Mr. Arthurs*. . . . .*Not printed.*
143. Return to an Order of the House of the 13th March, 1912, for a return showing the rural mail routes established by the present Government; the number of requests received by the Post Office Department for the establishment of rural mail routes; the number of applications granted; the number not granted, and the reasons therefor. Presented 22nd March, 1912.—*Mr. Lemieux*. . . . .*Not printed.*
144. Return to an Address to His Royal Highness the Governor General of the 12th February, 1912, for a copy of all Orders in Council, petitions and memorials, passed or received by the Government of Canada, respectively, since 1st July, 1908, relating to foreign shippings engaged in the coastwise trade in Canada; and also a copy of all correspondence between the Government or any departments thereof and any person, company or corporation relating to the same. Presented 25th March, 1912.—*Mr. Kyte*. . . . .*Not printed.*
145. Return to an Order of the 26th February, 1912, for a return showing the various loans made by the Government of Canada since the year 1900; the periods for which they were made; where contracted; rate of interest; commissions paid and to whom; net proceeds per cent of each loan; will future loans be asked for by public tender, if so where? Presented 25th March, 1912.—*Mr. Lapointe (Montreal)*. . . . .*Not printed.*
146. Return to an Order of the House of the 19th February, 1912, for a return showing the number and capacity of cold storage establishments in each of the principal cities of Canada; the kind and quantity, approximate value of food stuff and produce contained in each of these establishments, during the months of November and December, 1911, and January, 1912. Presented 25th March, 1912.—*Mr. Verville*.  
*Not printed.*
147. Return to an Order of the House of the 17th January, 1912, for a copy of the Judgment of the Judicial Committee of the Privy Council in the case of the *King vs. The Burrard Power Company*, and of all Orders in Council for the transmission to the government of the province of British Columbia of the administration of all water rights in the Railway Belt; together with a copy of all correspondence between the Government of British Columbia and the Government of Canada with regard to the same. Presented 25th March, 1912.—*Sir W. Laurier*. . . . .*Not printed.*
148. Return to an Address to His Royal Highness the Governor General of the 26th February, 1912, for a copy of all letters, documents and memoranda from the government of British Columbia, and all other papers relating to negotiations affecting the exportation of salmon, the boat rating in canneries, the system of issuing licenses and the restriction of licenses to Asiatics in the province of British Columbia, and all Orders in Council made in regard to any of these matters since 1st October, 1911. Presented 25th March, 1912.—*Mr. Macdonald*. . . . .*Not printed.*

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149. Return to an Order of the House of the 19th February, 1912, for a return showing the date of the appointment of Mr. H. P. Duchemin to investigate complaints against government officials in Nova Scotia; the remuneration he is to receive for his services, the daily allowance specified for his travelling and living expenses, full detail of his remuneration and expenses, the amount paid him so far; any account or statement presented which has not been paid, the gross amounts for which accounts have been paid. The names of any other parties conducting investigations in Nova Scotia, their remuneration, the number of the commissioners appointed in all the provinces by the present government or any department, to investigate charges of political partisanship on the part of officials, their names and addresses, and the dates of appointment and remuneration, including allowance for expenses. Presented 27th March, 1912.—*Mr. Sinclair*.. . . .*Not printed.*
150. Return to an Order of the House of the 4th March, 1912, for a copy of all letters, petitions, requests, memoranda, ministerial or departmental instructions in the possession of the Government or any department thereof, relating to the alleged change of name of Blind River Post Office, in the province of Ontario. Presented 25th March, 1912.—*Mr. Sinclair*.. . . .*Not printed.*
151. Report from the Department of Labour on Wholesale Prices in Canada, 1911. Presented 28th March, 1912.—*Hon. Mr. Crothers*.. . . .*Not printed.*
152. Résumé of General Elections, 1911. Presented 30th March, 1912.. . . .*Not printed.*
153. Return to an Order of the House of the 12th February, 1912, for a return showing the amount paid since 15th October, 1911, for making and repairing mail bags, and for the metal parts thereof including locks; the names and addresses of the companies, firms and individuals to whom payment has been made, and the amount in each case. Presented 29th March, 1912.—*Mr. Kay*.. . . .*Not printed.*
154. Return to an Order of the House of the 17th January, 1912, for a copy of all documents relating to the purchase and repair of the post office at Berthier-en-haut. Presented 1st April, 1912.—*Mr. Barette*.. . . .*Not printed.*
155. Names of Commissioners appointed under 'Inquiries Act.'—(*Senate*)..*Not printed.*



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

FOR THE YEAR ENDED MARCH 31

1911

PART I - EXCISE

*PRINTED BY ORDER OF PARLIAMENT*



OTTAWA

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

1911





*To His Excellency the Right Honourable Sir Albert Henry George, Earl Grey, Viscount Howick, Baron Grey of Howick, in the County of Northumberland, in the Peerage of the United Kingdom and a Baronet; Knight Grand Cross of Our Most Distinguished Order of Saint Michael and Saint George, &c., &c., Governor General of Canada.*

MAY IT PLEASE YOUR EXCELLENCY :

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, 1911, as prepared and laid before me by the Deputy Minister of Inland Revenue.

All of which is respectfully submitted.

WM. TEMPLEMAN,  
*Minister of Inland Revenue.*



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[illegible]

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## REPORT

OF THE

## DEPUTY MINISTER OF INLAND REVENUE

To the Hon. WM. TEMPLEMAN,  
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, 1911, with the usual information as to the cost of collection, and statistics respecting the sources whence these revenues were derived.

The following summary comparison shows the accrued revenue for the Nine Months ended March 31, 1907, and the Fiscal Years ended March 31, 1908, 1909, 1910 and 1911.

	1907 Nine months	1908	1909	1910	1911
	\$	\$	\$	\$	\$
Excise .....	11,930,153	16,013,662	15,084,589	15,283,665	16,919,553
Public Works.....	2,732	4,802	4,436	* 553	* 474
Weights and Measures, Gas and Law Stamps.....	94,123	137,207	136,128	156,460	151,229
Electric Light.....	25,951	42,520	43,846	46,316	59,583
Other Revenues .....	1,306	941	4,552	4,571	20,837
Methylated Spirits .....	42,665	54,509	49,960	71,464	90,999
Totals.....	12,096,930	16,253,641	15,323,511	15,563,029	17,242,675

\* Ferry Licenses.



DETAILS of Excise Revenue accrued during the undermentioned Fiscal Years :—

	1	2	3	4	5
	1907 Nine months	1908	1909	1910	1911
	\$	\$	\$	\$	\$
Spirits.....	5,807,742	7,537,979	6,950,589	7,169,760	7,913,376
Malt Liquor.....	6,913	11,470	17,628	27,314	52,853
Malt.....	1,042,881	1,485,386	1,396,007	1,434,004	1,529,472
Tobacco.....	4,065,129	5,656,880	5,964,005	6,067,599	6,784,140
Cigars.....	912,758	1,184,180	626,059	432,539	470,197
Acetic Acid.....	1,944	3,314	3,841	6,037	10,242
Manufactures in bond.....	41,822	66,544	71,669	77,811	77,840
Seizures.....	1,597	3,476	3,948	3,051	5,605
Other receipts.....	49,367	64,433	50,843	65,549	75,789
Methylated spirits.....	42,665	54,509	49,960	71,464	90,999
Totals.....	11,972,818	16,068,171	15,134,549	15,355,128	15,010,551

The quantity of spirits produced during the Fiscal Year was 5,255,133 proof gallons, as compared with 5,721,424, 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.....	5,766,504
Indian corn.....	52,080,594
Rye.....	11,320,088
Wheat.....	961,071
Oats.....	484,208
Barley.....	3,600
Rice.....	3,600
Molasses.....	18,531,379

The transactions of the several distilleries will be found stated in detail in Appendix A (Statement No. 3), pages 64 and 65.

	Proof galls.
There was on April 1, 1910, in process of manufacture.....	360,912
Manufactured during the Fiscal Year.....	5,255,133
Returned to distilleries for re-distillation—Duty paid, 753	
"                    "                    In bond, 781,819	
	782,572
Received into distilleries from other sources—Duty paid.....	14,212
"                    "                    In bond.....	...
Total.....	6,412,829

## SESSIONAL PAPER No. 12

This was disposed of as follows :

	Proof Galls.
Placed in warehouse.....	6,015,018
Fusel oil written off.....	25,327
Deficiency arising from rectification.....	7,041
Remaining in process of manufacture March 31, 1911, by actual stock taking.....	365,443
Written off.....	
Total.....	6,412,829

## SPIRITS :—

The following statement shows the warehousing transactions in spirits during the Fiscal Year ended March 31, 1911, and the four preceding Fiscal year.

Fiscal Years	1 In Warehouse at be- ginning of year. Including transits.	2 Warehoused during the year Ex-dis- tillery.	3 Otherwise Ware- housed.	4 Taken for consump- tion.	5 Exported.	6 Used in Bonded Factories.	7 Otherwise accounted for.	8 For re-distillation.	9 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.
1906-1907.. (9 months)	17,034,420	5,920,522	157,351	3,033,439	303,594	372,047	182,526	1,007,136	18,213,551
1907-1908..	18,213,551	8,186,765	325,015	3,918,657	412,859	638,539	245,971	1,433,533	20,075,772
1908-1909..	20,075,772	6,357,351	110,103	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	330,043	1,168,519	21,465,673
Totals.....	76,176,961	27,272,081	592,533	14,356,588	1,389,701	1,987,542	1,007,606	4,691,994	80,608,215
Average....	20,313,856	7,272,555	158,009	3,828,405	370,587	530,011	268,695	1,251,198	21,495,524
1910-1911..	21,465,673	6,015,018	151,628	4,146,452	273,963	455,598	413,562	781,819	21,560,925

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

	Proof Galls.
1906-1907 (nine months).....	303,594
1907-1908.....	412,859
1908-1909.....	311,314
1909-1910.....	361,934
1910-1911.....	273,963

2 GEORGE V., A. 1912

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 Fac- tories.	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.	\$
1906-1907 (nine months) . . .	4,475	3,033,439	157,325	3,195,239	5,807,742
1907-1908 . . . . .	8,655	3,918,657	325,015	4,252,327	7,537,979
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
Totals . . . . .	37,611	14,356,518	592,225	14,986,354	27,466,070
Average . . . . .	10,029	3,828,405	157,927	3,996,361	7,324,285
1910-1911 . . . . .	7,058	4,146,452	151,387	4,304,897	7,913,376

## SESSIONAL PAPER No. 12

## MALT :

The following statement shows the transactions in Malt during the Fiscal Year ended March 31, 1911, and the four preceding Fiscal Years :—

Fiscal Year.	1	2	3	4	5	6	7	8	9
	In Warehouse at beginning of year, including transits.	Mannfactured 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 accrued, including License Fees.
	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
1906-1907 nine months.....	32,618,663	79,682,511	1,056,315	674,022	69,176,871	303,553	2,422,575	42,128,515	1,042,881
1907-1908.....	42,128,515	99,577,820	472,433	743,595	98,579,733	355,200	2,472,181	41,516,249	1,485,386
1908-1909.....	41,516,249	95,453,648	1,220,392	618,625	92,631,306	378,200	3,276,370	42,522,038	1,396,007
1909-1910.....	42,522,038	90,559,046	2,237,528	930,207	95,166,134	425,000	3,663,645	36,963,440	1,434,004
Totals.....	158,785,465	365,273,025	4,986,698	2,966,449	355,554,044	1,462,550	11,834,771	163,160,242	5,358,278
Average.....	42,342,791	97,406,140	1,329,778	791,053	94,814,412	390,013	3,155,939	43,509,398	1,428,874
1910-1911.....	36,993,440	100,086,332	3,073,837	839,035	101,525,430	551,500	2,526,384	36,380,330	1,529,472



## TOBACCO :

The following statement shows the transactions during the Fiscal Year ended March 31, 1911, 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 transit.	Manufactured during the year.	Taken for consumption.	Exported.	Otherwise accounted for.	In Warehouse at end of year, including transits.	Raw Leaf taken for consumption.	Canadian Twist taken for consumption.	Total Tobacco taken for consumption.	Other Materials taken for consumption.	Duty collected thereon including License Fees.
	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	\$
1906-1907 (9 months)	1,489,545	12,381,013	12,101,678	114,322	21,451	1,633,107	11,386,331	15,992	23,504,001	..	4,065,129
1907-1908 .....	1,633,107	17,238,977	17,112,591	141,465	23,110	1,594,918	14,962,407	13,447	32,088,445	..	5,656,880
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	5,904,005
1909-1910 .....	1,170,325	19,462,170	19,293,891	29,250	50,421	1,258,933	13,729,875	20,673	33,044,439	1,269,027	6,067,599
Totals.....	5,887,895	67,060,749	66,776,295	388,000	127,066	5,657,283	53,609,440	69,956	120,455,691	2,342,759	21,753,613
Average.....	1,570,106	17,882,866	17,807,012	103,467	33,884	1,508,609	14,295,851	18,655	32,121,518	1,171,380	5,800,963
1910-1911 .....	1,258,933	21,614,816	20,641,917	37,071	8,110	927,688	15,012,704	19,181	35,673,832	1,123,383	6,784,140

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## CIGARS :

The following statement shows the transactions in Cigars during the Fiscal Year ended March 31, 1911, and the four preceding Fiscal Years.

Fiscal Years.	1	2	3	4	5	6	7	8
	In Warehouse at beginning of year, including transits.	Manufactured during the year.	Assessment to bring up production up to Standard.	Taken for consumption.	Exported.	Otherwise accounted for.	In Warehouse at end of year, including transits.	Duty collected thereon, including License Fees.
	No.	No.	No.	No.	No.	No.	No.	\$
1906-1907 (nine months) .....	25,341,265	154,462,182	399,078	154,253,260	40,300	86,315	25,822,450	912,758
1907-1908 .....	25,822,450	207,291,596	53,319	200,133,255	29,400	12,875	32,991,835	1,184,180
1908-1909 .....	32,991,835	186,419,145	7,681	192,105,371	.....	41,450	27,271,840	626,059
1909-1910 .....	27,271,840	204,285,596	36,795	205,820,851	19,000	.....	25,754,380	432,539
Totals .....	111,427,390	752,458,519	496,873	752,312,737	88,900	140,640	111,840,505	3,155,536
Average .....	29,713,971	209,655,605	132,499	200,616,730	23,706	37,504	29,824,135	841,476
1910-1911 .....	25,754,380	227,498,932	10,295	227,585,692	17,000	.....	25,660,915	470,197

2 GEORGE V., A. 1912

The revenue derived from goods manufactured in bond during the Fiscal Year ended March 31, 1911, and the four preceding Years, was as follows:—

1906-1907 (nine months).....	\$41,822
1907-1908.....	66,544
1908-1909.....	71,669
1909-1910.....	77,811
1910-1911.....	77,840

#### ACETIC ACID:—

The revenue derived from Acetic Acid during the Fiscal Year ended March 31, 1911, and the four preceding Fiscal Years, was as follows:—

1906-1907 (nine months).....	\$ 1,945
1907-1908.....	3,314
1908-1909.....	3,841
1909-1910.....	6,037
1910-1911.....	10,242

#### INSPECTION OF PETROLEUM:—

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

	Galls.
Petroleum.....	21,017,628·45
Naphtha.....	6,517,655·41
Total.....	27,535,283·86

#### 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 \$210,812.05, the cost of the three services being \$180,447.18.

#### PREVENTION OF ADULTERATION OF FOOD AND AGRICULTURAL 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 186,559·33 proof gallons, and the sales 187,499·59 proof gallons. A statement of details appears on page 58 and 59.

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

Grade No. I. "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.

## SESSIONAL PAPER No. 12

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

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 amount of Excise Revenue collected at each Out-Office and under various headings, separately.

I have the honour to be, sir,

Your obedient servant,

W. J. GERALD,  
*Deputy Minister.*

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.



## 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.	CANADA.									
	Quantity.					Duty.				
	Spirits.	Beer.	Wine.	Tobacco.	Petroleum.	Spirits.	Beer.	Wine.	Tobacco.	Petroleum.
	Galls.	Galls.	Galls.	Lbs.	Galls.	\$	\$	\$	\$	\$
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	1 393	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	.....	1 005	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	110	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	104	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.....	765	4 737	100	2 404	.....	1 593	198	048	875	.....
1902.....	796	5 102	090	2 404	.....	1 653	214	048	915	.....
1903.....	870	4 712	096	2 548	.....	1 812	205	051	992	.....
1904.....	952	4 918	096	2 765	.....	1 985	225	051	1 042	.....
1905.....	869	4 972	090	2 686	.....	1 842	207	040	1 005	.....
1906.....	861	5 255	091	2 777	.....	1 800	228	050	1 053	.....
*1907 (nine months).....	947	5 585	092	2 953	.....	1 972	249	053	1 276	.....
1908.....	889	5 812	096	2 898	.....	1 858	253	054	1 129	.....
1909.....	806	5 348	085	2 910	.....	1 681	225	047	1 032	.....
1910.....	815	5 276	097	2 940	.....	1 702	223	053	979	.....
1911.....	859	5 434	104	3 011	.....	1 801	233	053	1 048	.....
Average.....	955	3 581	118	2 306	.....	1 290	153	060	644	.....

\* Calculation on basis of 12 months.

W. J. GERALD,  
Deputy Minister.

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

SESSIONAL PAPER No. 12

APPENDIX **33**

Statement of Seizures of Illicit Manufactures for the year ended March 31, 1911.

Division.	No.	Date.	Names.	Residences.	Schedule Value.	Remarks.
Ottawa.....	230	1911. March 1.....	Jas. Gibbons.....	Ottawa.....	\$ cts. 30 00	Fine \$500 imposed and paid.
Peterborough..	25	1910. April 6.....	Lewis Spry, N. Pearson & R. Bell.....	Peterborough.....	30 00	N. Pearson has paid his fine of \$100 and R. Bell is serving six months in jail.
Montreal.....	1200	May 26.....	Jos. Demers & G. Tremblay.	Montreal.....	122 00	Fine \$400 imposed and paid.
".....	1211	Dec. 7.....	Mark Axelrad.....	".....	0 50	"
".....	1242	" 12.....	Moses Singer.....	".....	5 00	"
Quebec.....	616	" 12.....	Jean Hebert.....	Quebec.....	12 00	No action taken.
Quebec.....	619	1911. March 15. ....	Jean Chartré.....	Quebec.....	30 09	Legal proceedings abandoned.

INLAND REVENUE DEPARTMENT,

OTTAWA, June 16, 1911.

W. J. GERALD,  
*Deputy Minister.*



## SESSIONAL PAPER No. 12

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2 GEORGE V., A. 1912

APPENDIX C—Continued.  
 STATEMENT showing the amount of Excise and other Revenues collected at each of the undermentioned Out-Offices during the year ended March 31, 1911.

Divisions.	Out-Offices.	Licenses.	Spirits.	Malt.	Tobacco.	Cigars.	Mani- factures in Bond.	Other Receipts.	Electric Light Inspection Fees.	Totals.
		§ cts.	§ cts.	§ cts.	§ cts.	§ cts.	§ cts.	§ cts.	§ cts.	§ cts.
Windsor	Chatham	250 00	37,371 99		1,193 31	723 12				39,538 45
	Blenheim	50 00			16 52	74 60				141 12
	Kingsville	100 00			469 70	387 70				1,007 40
	Leamington	125 00			500 00	234 20	767 83			2,017 03
	Wallaceburg	1 00								1 00
Joliette	Berthierville	250 00	21,063 97							32,784 41
	L'Assomption	100 00								1,480 35
	L'Epiphanie	50 00			645 95	734 40		11,471 37		5,304 52
	St. Jacques	50 00			1,083 52	4,171 00				280 90
	St. Lin	100 00			230 90					3,781 60
Montreal	St. Roch	50 00			2,392 60	1,289 00				297 50
	St. Esprit	50 00			247 50					165 38
	Chamblé Basin.				115 38					
	Lachine									
	St. Jerome	100 00	17,445 38							17,515 38
Québec	St. Therèse									
	St. Laurent									
	Valleyfield	100 00	75,014 32			12 00				75,126 32
	Chicoutimi	125 00	11,687 75			8 25				11,821 00
	Fraserville	200 00	35,118 77							35,318 77
St. Hyacinthe	Gaspé	50 00	1,213 49							1,263 49
	Rimouski	100 00	1,989 91							2,089 94
	Roberval	50 00	2,036 86							2,086 86
	Parthuin	50 00				73 20				123 20
	L'Ange Gardien	50 00				50 00				100 00
Sherbrooke, Three Rivers	Marville	50 00				704 25	4,737 46	609 00		754 25
	St. Jean	150 00	15,228 13							20,724 59
	Sorel	200 00	23,426 53							23,626 53
	St. Thomas d'Aquin	50 00			32 25					82 25
	Victoriaville	50 00	17,174 38							17,592 59
Three Rivers	Granby	400 00						368 21		298,478 27
	Grand-Mère	50 00	3,986 30		290,419 97	7,108 30		550 00		4,036 30
	Louiseville	50 00	5,814 67							5,864 67
	Shawmigan	00			1,167 50					1,217 50

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St. John.....	50 00	597 39			151 80				799 19
Woodstock.....									
Amherst.....	50 00				242 50				292 50
Lunenburg.....									
Parsborough.....									
Truro.....	50 00				1,002 65				1,052 65
Yarmouth.....	50 00						1,236 20		2,042 70
Weymouth.....									
Windsor.....									
Antigonish.....									
New Glasgow.....									
North Sydney.....									
Sidney.....	150 00	6,470 36					213 70		6,834 06
Georgetown.....									
Souris.....									
Summerside.....									
Brandon.....	350 00	65,885 57	2 80	13,788 00	5,084 52	2,002 45			87,113 34
Morden.....	100 00	4,970 53							5,070 53
Portage la Prairie.....	150 00	17,767 81			1,500 92	352 70			19,771 43
Saskatoon.....	50 00	3,817 10							3,867 10
Winnipeg.....	50 00	9,492 24							9,542 24
Canmore.....	50 00	6,912 21							6,962 21
Edmonton.....	475 00	103,144 82	4,261 30	8,625 00	7,399 84	2,322 95			126,228 91
P.E. Saskatchewan.....	50 00	2,281 51							2,331 51
High River.....	50 00	1,365 26							1,415 26
Lacombe.....	50 00	8,871 38							8,921 38
Lethbridge.....	250 00	20,628 44	10,654 00	22,348 48	517 16	248 15			54,646 23
Medford.....									
Medicine Hat.....	50 00	11,552 06							11,602 06
Pincher Creek.....	50 00	637 96							687 96
Stettler.....	50 00	1,569 39							1,619 39
Strathcona.....	100 00	4,684 84		5,925 00					10,709 84
Vernilion.....	50 00	866 64							916 61
Waskiviu.....	50 00	5,994 11							6,044 11
Estevan.....	50 00	6,508 69							6,561 57
Indian Head.....									
North Battleford.....	50 00	2,318 05							2 88
Prince Albert.....	200 00	18,935 22		3,772 50	206 08	61 85			2,370 94
Regina.....	200 00	20,721 95		2,420 23	1,093 54	383 26			22,475 69
Saskatoon.....	250 00	36,330 73	3,681 20	8,196 15	2,429 98	915 10			24,818 98
Swift Current.....	50 00	9,214 41							9,268 01
Weyburn.....	50 00	6,222 69							6,276 20
Anaconda.....	50 00								50 00
Granbrook.....	150 00	21,731 03		60 00					21,941 09
Petrie.....	130 00	22,955 00		10,152 74	661 08	295 10			34,213 92
Greenwood.....	50 00	26,959 26							27,009 26
Golden.....	50 00	4,373 01							4,423 01
Grand Forks.....	100 00			600 00					700 00
Hedley.....	50 00			292 06					292 06
Kelowna.....	100 00			101 07					1,755 01
					488 04	1,065 90			

## APPENDIX C—Concluded.

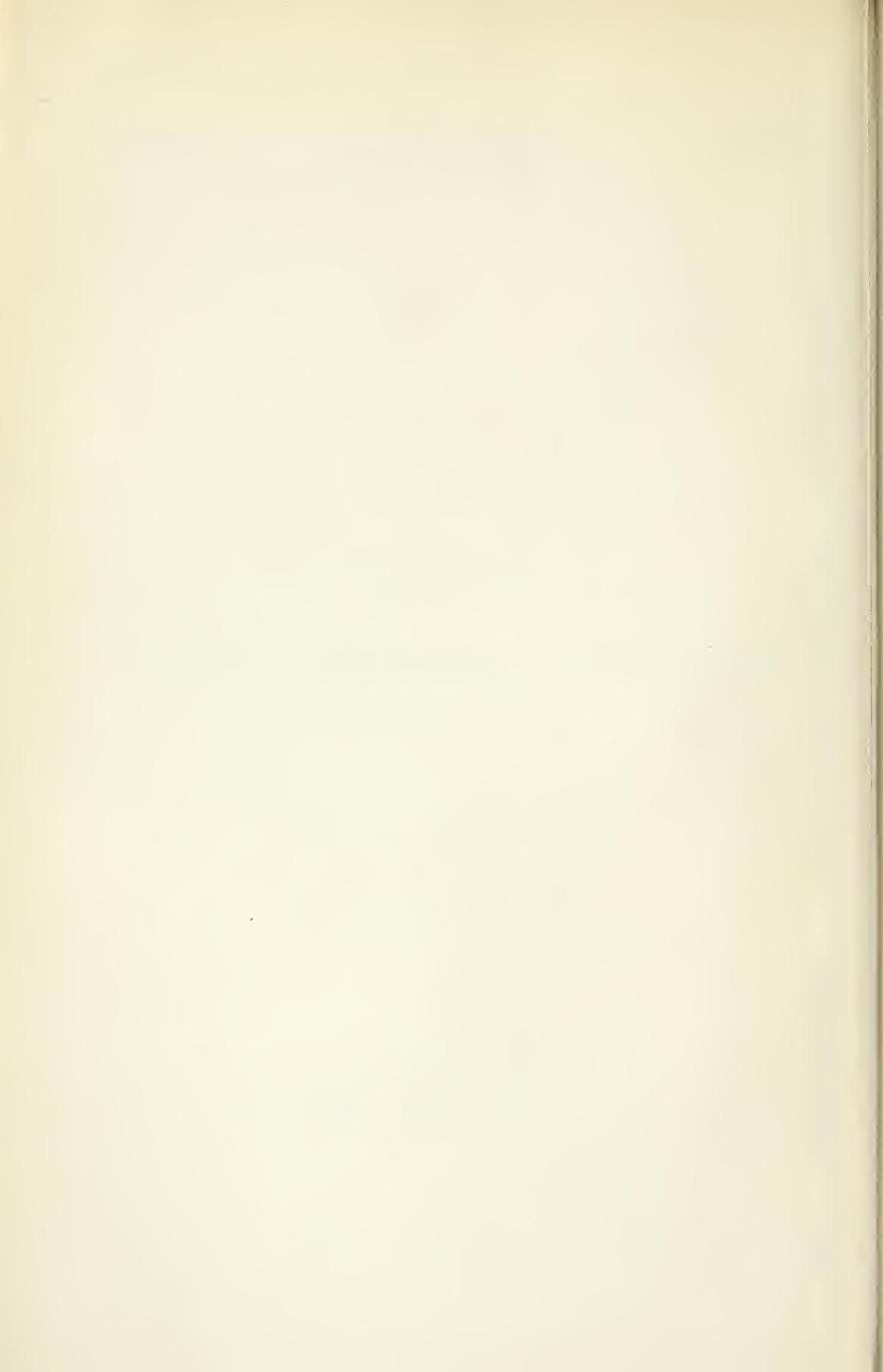
STATEMENT showing the amount of Excise and other Revenues collected at each of the undermentioned Out-Offices during the year ended March 31, 1911.

Divisions.	Out-Offices.	Licenses.	Spirits.	Malt Liquor.	Malt.	Tobacco.	Cigars.	Manu- factures in Bond.	Other Receipts.	Electric Light Inspection Fees.	Totals.
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Vancouver— <i>Con.</i>	Kamloops.....	225 00	5,313 68	.....	1,893 82	891 84	275 50	.....	.....	.....	8,599 84
	Michel.....	100 00	7,037 86	.....	5,610 68	.....	.....	.....	.....	.....	12,748 54
	Moyie.....	50 00	.....	.....	600 00	.....	.....	.....	.....	.....	650 00
	Merritt.....	50 00	.....	.....	.....	.....	.....	.....	.....	.....	50 00
	Nelson.....	250 00	27,480 75	184 60	4,500 00	2,173 36	889 00	.....	.....	.....	35,537 71
	New Westminster.....	250 00	7,361 53	343 10	7,735 20	9,679 18	3,161 20	.....	.....	.....	28,550 21
	Phoenix.....	50 00	.....	.....	3,000 00	.....	.....	.....	.....	.....	3,050 00
	Princeton.....	50 00	.....	.....	.....	.....	.....	.....	.....	.....	50 00
	Prince Rupert.....	50 00	775 06	.....	.....	.....	.....	.....	.....	.....	825 06
	Rossland.....	150 00	11,086 88	110 00	1,582 20	781 76	217 25	.....	.....	.....	13,928 09
	Revelstoke.....	275 00	8,987 99	.....	1,754 88	1,080 80	449 80	.....	.....	.....	12,548 47
	Trail.....	50 00	.....	.....	2,400 00	.....	.....	.....	.....	.....	2,450 00
Victoria	Vernon.....	150 00	9,437 58	.....	332 25	126 28	64 80	.....	.....	.....	10,110 91
	Ladysmith.....	50 00	.....	.....	.....	1,246 62	487 85	.....	.....	.....	1,784 47
	Nanaimo.....	350 00	5,793 12	1,479 13	16,775 58	2,757 16	882 00	.....	.....	.....	28,036 99
	Cumberland.....	50 00	.....	.....	2,137 50	.....	.....	.....	.....	.....	2,247 50
Yukon	Dawson.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Totals.....	15,456 50	1,488,583 59	20,724 43	350,411 21	362,602 16	44,953 25	8,083 67	29,645 19	.....	2,320,460 00

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

W. J. GERALD,  
*Deputy Minister.*

# FINANCIAL RETURNS, 1910-1911





2 GEORGE V.

SESSIONAL PAPER No. 12

A. 1912

CR.

No. 1.—GENERAL REVENUES ACCOUNT FOR THE YEAR ENDED MARCH 31, 1911.

Dr.

Memo of Refunds deducted below.	Amounts deposited to the credit of the Receiver General.		Balances due March 31, 1911.		SERVICES.	Revenues of previous years not collected April 1, 1910.		Revenues received 1910-1911.		Totals.
	\$	cts.	\$	cts.		\$	cts.	\$	cts.	
134,274 19	16,918,717	04	19,563 44	16,938,280	48	18,727 33	16,919,553	15	16,938,280	48
42 00	98,427 39	52	370 13	98,797 52	52	135 72	98,661 80	52	98,797 52	52
	52,567 25			52,567 25			52,567 25		52,567 25	
	59,583 00			59,583 00			59,583 00		59,583 00	
	17,432 49			17,432 49			17,432 49		17,432 49	
			45 04	45 04		45 04			45 04	
7 00	3,403 54			3,403 54			3,403 54		3,403 54	
	90,999 48			90,999 48			90,999 48		90,999 48	
	474 00		1,833 62	2,307 62		1,833 62	474 00		2,307 62	
134,323 19	17,241,604	19		17,242,674	42		17,242,674	71	17,243,416	42
	134,323 19			134,323 19			134,323 19		134,323 19	
	17,107,281	00	21,812 23	17,129,093	23	20,741 71	17,108,351	52	17,129,093	23
				Totals						
				LESS—Refunds as per Statement No. 15.						

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.W. J. GERALD,  
*Deputy Minister.*

DR.

## No. 2.—GENERAL EXPENDITURES ACCOUNT FOR

Balances due to Collectors, &c., April 1, 1910.	EXPENDITURES AUTHORIZED BY THE DEPARTMENT.			Balances due by Collectors, &c., March 31, 1910.	Totals.	Services.
	Salaries.	Contingencies.	Seizures.			
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
49 08	437,851 34	181,580 73	178 25	343 98	620,003 38	Excise and Seizures, per Statement No. 4.....
.....	.....	.....	2,331 86	.....	2,331 86	Excise Seizures, distributed per Appendix B, Statement No. 2....
.....	1,725 00	7,988 74	.....	.....	9,713 74	Preventive Service, per Statement No. 5.....
.....	3,727 37	17,540 95	.....	50 00	21,318 32	Adulteration of Food, per Statement No. 6 and Appendix B. ....
.....	.....	1,066 46	.....	.....	1,066 46	Sundry Minor Expenditures per Statement No. 10.....
.....	103,666 62	6,897 34	.....	16 66	110,580 62	Departmental Expenditures, per Statement No. 16.....
.....	74,399 03	42,663 12	.....	193 26	117,255 41	Weights and Measures, per Statements Nos. 19 A and 19 B.....
.....	29,191 23	9,026 40	.....	212 88	33,430 51	Gas Inspection, per Statement No. 21.....
.....	9,262 73	15,904 67	.....	.....	25,167 40	Electric Light Inspection, per Statement No. 23.....
.....	.....	74,453 73	.....	.....	74,453 73	Methylated Spirits, per Statement No. 25.....
49 80	659,823 32	357,122 14	2,510 11	816 78	1,020,321 43	Totals.....

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

SESSIONAL PAPER No. 12

THE YEAR ENDED MARCH 31, 1911.

CR.

Balances due by Collectors, &c., April 1, 1910.	Amounts disbursed by the Receiver-General, on requisition of the Department.	DEDUCTIONS FROM SALARIES FOR				Balances due to Collectors, &c., March 31, 1910.	Totals.
		Super-annuation.	Insurance.	Retirement.	Guarantee.		
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
343 98	602,414 35	4,295 73	1,059 98	10,490 12	1,350 14	49 08	620,003 38
.....	2,331 86	.....	.....	.....	.....	.....	2,331 86
.....	9,710 86	.....	.....	.....	2 88	.....	9,713 74
22 09	21,268 89	11 00	.....	.....	16 34	.....	21,318 32
.....	1,066 46	.....	.....	.....	.....	.....	1,066 46
16 66	106,919 62	483 63	267 34	2,893 37	.....	.....	110,580 62
193 26	116,668 70	180 34	33 00	.....	180 11	.....	117,255 41
212 88	37,967 22	112 73	.....	10 00	127 68	.....	38,430 51
.....	25,135 55	.....	.....	.....	31 85	.....	25,167 40
.....	74,453 73	.....	.....	.....	.....	.....	74,453 73
788 87	997,937 24	5,083 43	1,360 32	13,393 49	1,709 00	49 08	1,020,321 43

W. J. GERALD,  
Deputy Minister.

2 GEORGE V., A. 1912

## EXCISE

Dr.

No. 3.—COLLECTION DIVISIONS

Balances due April 1, 1910.	AMOUNT ACCRUED DURING THE YEAR, INCLUDING LICENSE FEES.							
	Spirits.	Malt Liquor.	Malt.	Tobacco.	Cigars.	Acetic Acid.	Bonded Manu- factures.	Seizures.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
.....	138,924 47	50 00	5,618 02	2,227 85	721 60	.....	2,089 93	.....
112 61	47,038 54	150 00	9,881 83	22,480 08	10,502 08	.....	3,945 81	.....
.....	390,693 74	300 00	97,640 80	9,588 88	6,299 00	.....	.....	.....
.....	260,797 33	100 00	66,073 28	695,664 33	40,160 53	.....	6,072 88	150 00
.....	65,668 52	100 00	6,559 40	16,145 78	7,109 30	.....	2,622 02	.....
9 50	75,714 90	308 30	66,672 13	171,179 40	66,392 46	.....	.....	.....
.....	314,017 78	150 00	19,097 28	972 06	1,658 50	.....	994 14	.....
.....	.....	252 00	12,103 54	3,501 45	1,301 23	.....	.....	.....
.....	170,041 79	100 00	26,054 60	1,340 40	264 84	.....	100 00	.....
.....	54,362 88	150 00	11,667 80	589 96	332 70	.....	.....	100 00
.....	106,190 49	100 00	17,244 00	1,489 88	497 34	.....	.....	.....
.....	120,998 50	150 00	27,949 65	594 76	872 40	.....	300 00	.....
.....	14,979 50	100 00	19,822 82	3,444 42	3,523 48	.....	.....	.....
.....	25,936 37	150 00	11,306 90	8,688 34	2,962 58	.....	.....	.....
.....	1,041,117 56	700 00	277,391 18	153,989 71	49,603 21	.....	28,631 95	325 00
.....	467,358 98	100 00	47,393 84	15,929 78	2,810 02	.....	1,142 83	.....
522 89	.....	.....	.....	.....	.....	.....	.....	.....
645 00	3,293,841 35	2,960 30	722,477 07	1,107,827 08	195,011 27	.....	45,899 56	575 00
.....	61,521 99	.....	.....	9,817 44	10,745 95	.....	.....	.....
663 19	1,808,802 86	2,925 77	328,619 18	5,028,508 39	179,742 03	10,241 94	6,360 87	1,890 92
.....	410,761 74	405 80	43,398 09	181,851 73	13,379 89	.....	3,672 99	270 50
.....	154,647 13	50 00	13,359 51	318,115 17	17,736 96	.....	600 00	.....
.....	96,109 57	.....	1,500 00	82 25	977 45	.....	5,553 95	.....
54 27	54,112 67	.....	.....	2,625 90	1,453 75	.....	.....	.....
3,295 57	.....	.....	.....	.....	.....	.....	.....	.....
4,013 03	2,585,955 96	3,381 57	386,276 78	5,541,000 88	224,038 03	10,241 94	16,187 81	2,161 42
.....	156,764 78	100 00	19,140 00	6,240 60	8,635 00	.....	3,478 95	315 00
1,442 62	.....	.....	.....	.....	.....	.....	.....	.....
1,442 62	156,764 78	100 00	19,140 00	6,240 60	8,635 00	.....	3,478 95	315 00
.....	48,907 93	162 00	31,513 82	3,166 51	1,915 75	.....	.....	.....
.....	6,470 36	.....	.....	2,106 02	372 53	.....	.....	.....
5,860 50	.....	.....	.....	.....	.....	.....	.....	.....
5,860 50	55,378 29	162 00	31,513 82	5,272 53	2,288 28	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	14,281 73	.....	.....	.....	.....
.....	857,143 91	372 80	130,822 31	38,111 48	15,954 58	.....	9,979 47	.....
5,563 99	301,747 71	15,165 30	86,472 19	10,897 04	3,937 06	.....	.....	.....
.....	128,020 67	3,881 20	17,991 13	4,059 16	1,771 01	.....	.....	.....

## SESSIONAL PAPER No. 12

1910-1911.

IN ACCOUNT WITH REVENUES.

CR.

Sundries.	Total Duties Accrued.	Total Debits.	DIVISIONS.	Deposited to Credit of Receiver General.	Balances due March 31, 1911.	Total Credits.
\$ cts.	\$ cts.	\$ cts.		\$ cts.	\$ cts.	\$ cts.
2,148 28	151,780 15	151,780 15	Belleville .....	151,780 15		151,780 15
700 00	94,698 34	94,810 95	Brantford .....	94,698 34	112 61	94,810 95
5,160 00	509,682 42	509,682 42	Guelph .....	509,682 42		509,682 42
2,567 00	1,071,585 35	1,071,585 35	Hamilton .....	1,071,585 35		1,071,585 35
582 00	98,787 02	98,787 02	Kingston .....	98,787 02		98,787 02
352 00	380,619 19	380,628 69	London .....	380,628 69		380,628 69
931 80	337,821 56	337,821 56	Ottawa .....	337,821 56		337,821 56
1 00	17,159 22	17,159 22	Owen Sound .....	17,159 22		17,159 22
1,027 58	198,929 21	198,929 21	Perth .....	198,929 21		198,929 21
202 00	67,405 34	67,405 34	Peterborough .....	67,405 34		67,405 34
500 00	126,021 71	126,021 71	Port Arthur .....	126,021 71		126,021 71
1,280 00	152,145 31	152,145 31	Prescott .....	152,145 31		152,145 31
312 80	42,183 02	42,183 02	St. Catharines .....	42,183 02		42,183 02
250 00	49,294 19	49,294 19	Stratford .....	49,294 19		49,294 19
15,581 85	1,567,340 46	1,567,340 46	Toronto .....	1,567,340 46		1,567,340 46
16,365 23	551,100 68	551,100 68	Windsor .....	551,100 68		551,100 68
		522 89	Suspense Account .....		522 89	522 89
47,961 54	5,416,553 17	5,417,198 17	..... Ontario .....	5,416,562 67	635 50	5,417,198 17
11,160 00	93,245 38	93,245 38	Joliette .....	93,245 38		93,245 38
4,093 59	7,370,585 55	7,371,248 74	Montreal .....	7,369,740 54	1,508 20	7,371,248 74
1,909 25	655,649 99	655,649 99	Quebec .....	655,649 29	70	655,649 99
852 00	505,360 77	505,360 77	Sherbrooke .....	505,360 77		505,360 77
1,470 00	105,693 22	105,693 22	St. Hyacinthe .....	105,693 22		105,693 22
350 00	58,544 32	58,598 59	Three Rivers .....	58,544 32	54 27	58,598 59
		3,295 57	Suspense Account .....		3,295 57	3,295 57
19,834 84	8,789,079 23	8,793,092 26	..... Quebec .....	8,788,233 52	4,858 74	8,793,092 26
1,101 85	195,776 18	195,776 18	St. John .....	195,776 18		195,776 18
		1,442 62	Suspense Account .....		1,442 62	1,442 62
1,101 85	195,776 18	197,218 80	..... New Brunswick .....	195,776 18	1,442 62	197,218 80
300 00	85,966 01	85,966 01	Halifax .....	85,966 01		85,966 01
100 00	9,048 91	9,048 91	Pictou .....	9,048 91		9,048 91
		5,860 50	Suspense Account .....		5,860 50	5,860 50
400 00	95,014 92	100,875 42	..... Nova Scotia .....	95,014 92	5,860 50	100,875 42
	14,281 73	14,281 73	..... Charlottetown—P. E. I. .....	14,281 73		14,281 73
2,320 30	1,054,704 85	1,054,704 85	..... Winnipeg—Manitoba .....	1,054,704 85		1,054,704 85
1,225 00	419,444 30	425,008 29	..... Calgary—Alberta .....	419,444 30	5,563 99	425,008 29
650 00	156,373 17	156,373 17	Moose Jaw—Saskatchewan .....	156,373 17		156,373 17



2 GEORGE V., A. 1912

## EXCISE

DR.

No. 3.—COLLECTION DIVISIONS

Balances due April 1, 1910.	AMOUNT ACCRUED DURING THE YEAR, INCLUDING LICENSE FEES.							
	Spirits.	Malt Liquor.	Malt.	Tobacco.	Cigars.	Acetic Acid.	Bonded Manu- factures.	Seizures.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1,202 09	363,068 43	22,609 60	89,397 17	33,705 38	12,910 40	.....	2,293 72	53 55
.....	164,105 98	4,160 24	43,961 55	22,744 02	5,651 29	.....	.....	2,500 00
1,202 09	527,174 41	26,769 84	133,358 72	56,449 40	18,561 69	.....	2,293 72	2,553 55
10	7,349 40	100 00	1,419 87	.....	.....	.....	.....	.....
18,727 32	7,913,376 48	52,893 01	1,529,471 89	6,784,139 90	470,196 92	10,241 94	77,839 51	5,604 97
.....	59,541 12	.....	72,398 57	1,504 49	.....	.....	80 01	.....
.....	7,853,835 36	52,893 01	1,457,073 32	6,782,635 41	470,196 92	10,241 94	77,759 50	5,604 97

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

SESSIONAL PAPER No. 12

1910-1911—*Concluded.*IN ACCOUNT WITH REVENUES—*Concluded.*

CR.

Sundries.	Total Duties Accrued.	Total Debits.	DIVISIONS.	Deposited to Credit of the Receiver General.	Balances due March 31, 1911.	Total Credits.
\$ cts.	\$ cts.	\$ cts.		\$ cts.	\$ cts.	\$ cts.
1,620 00	525,658 25	526,860 34	Vancouver.....	525,658 25	1,202 09	526,860 34
425 00	243,548 08	243,548 08	Victoria.....	243,548 08		243,548 08
2,045 00	769,206 33	770,408 42	British Columbia.....	769,206 33	1,202 09	770,408 42
250 00	9,119 27	9,119 37	Yukon.....	9,119 37		9,119 37
75,788 53	16,919,553 15	16,938,280 48	Totals.....	16,918,717 04	19,563 44	16,938,280 48
750 00	134,274 19		Less refunds as per state- ment No. 16.....			
75,038 53	16,785,278 96		Net Revenue.....			

W. J. GERALD,  
Deputy Minister.

EXCISE

DR.

No. 4.—COLLECTION DIVISIONS

Balances due by Collectors, April 1, 1910.	Amounts received from Department to meet Expenditures.	DEDUCTIONS FROM SALARIES FOR				Balances due to Collectors, March 31, 1911.	Totals.	DIVISIONS.
		Super-annua-tion.	Insur-ance.	Retire-ment.	Guar-antee.			
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
43 98	15,334 98	164 07	12 84	280 00	34 08	.....	15,869 95	Belleville.....
.....	8,040 12	82 48	.....	232 25	25 20	.....	8,380 05	Brantford.....
.....	21,285 01	296 35	.....	222 69	52 56	.....	21,856 61	Guelph.....
.....	23,764 22	159 64	32 64	638 08	76 80	.....	24,671 38	Hamilton.....
.....	9,340 62	112 29	.....	94 29	28 08	.....	9,575 28	Kingston.....
.....	22,430 59	202 10	71 76	378 37	56 88	.....	23,139 70	London.....
.....	9,874 49	91 34	.....	262 14	32 40	.....	10,260 37	Ottawa.....
.....	6,811 51	48 86	.....	108 72	15 84	.....	6,984 93	Owen Sound.....
.....	11,854 29	25 45	47 52	370 15	41 76	.....	12,389 17	Perth.....
.....	4,758 17	14 98	.....	168 68	12 96	.....	4,954 79	Peterborough.....
.....	4,336 58	.....	.....	186 84	12 24	.....	4,535 66	Port Arthur.....
.....	11,328 34	59 66	164 10	355 68	32 40	.....	11,940 18	Prescott.....
.....	6,137 82	80 71	.....	117 37	18 72	.....	6,374 62	St. Catharines.....
.....	7,530 49	57 90	190 32	235 98	24 48	.....	8,039 17	Stratford.....
.....	44,561 20	485 08	45 08	942 16	121 79	.....	46,135 31	Toronto.....
.....	28,785 58	292 89	191 88	639 14	86 80	49 08	30,045 37	Windsor.....
.....	6,850 01	51 97	.....	.....	18 00	.....	6,919 98	District Inspectors.....
43 98	243,044 02	2,225 77	756 14	5,232 54	690 99	49 08	252,042 52	Ontario.....
.....	11,963 26	.....	35 04	466 77	28 80	.....	12,493 87	Joliette.....
.....	60,759 72	576 27	.....	1,399 95	171 36	.....	62,907 30	Montreal.....
.....	26,643 93	196 88	.....	544 94	64 50	.....	27,450 25	Quebec.....
.....	14,809 26	74 61	250 08	469 20	41 91	.....	15,645 06	St. Hyacinthe.....
.....	8,050 45	67 93	.....	202 49	24 48	.....	8,345 35	Sherbrooke.....
.....	3,700 64	49 95	.....	46 17	11 88	.....	3,808 64	Three Rivers.....
.....	5,693 65	51 97	.....	130 08	18 00	.....	5,893 70	District Inspectors.....
.....	131,620 91	1,017 61	285 12	3,259 60	360 93	.....	136,544 17	Quebec.....
.....	12,170 22	177 89	.....	156 53	40 32	.....	12,544 96	St. John.....
.....	2,978 18	51 97	.....	.....	9 00	.....	3,039 15	District Inspector.....
.....	15,148 40	229 86	.....	156 53	49 32	.....	15,584 11	New Brunswick.....
.....	12,342 62	238 59	.....	22 44	36 00	.....	12,639 65	Halifax.....
.....	3,356 77	25 94	.....	86 73	9 36	.....	3,478 80	Pictou.....
.....	15,699 39	264 53	.....	109 17	45 36	.....	16,118 45	Nova Scotia.....
100 00	3,316 09	.....	.....	.....	6 48	.....	3,422 57	Charlottetown, P.E.I....
200 00	20,726 29	199 88	.....	450 07	49 21	.....	21,625 45	Winnipeg.....
.....	10,870 48	36 68	.....	225 44	20 88	.....	11,153 48	Calgary.....
.....	5,696 79	23 84	.....	142 78	14 32	.....	5,877 73	Moose Jaw.....
.....	4,336 47	.....	.....	.....	9 00	.....	4,345 47	District Inspector.....
200 00	41,630 03	260 40	.....	818 29	93 41	.....	43,002 13	Manitoba Alberta and Saskatchewan.....

SESSIONAL PAPER No. 12

1910-1911.

IN ACCOUNT WITH EXPENDITURES.

Cr.

Balances due to Collectors, April 1, 1910.	EXPENDITURES AUTHORIZED BY THE DEPARTMENT.						Balances due by Collectors, March 31, 1911.	Totals.
	Salaries.	Seizures Expendi- tures.	Special Assist- ance.	Rent.	Travelling Expenses.	Sundries.		
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
.....	12,863 14	.....	1,117 30	.....	1,659 60	185 93	43 98	15,869 95
.....	7,824 88	.....	.....	.....	289 10	266 07	.....	8,380 05
.....	20,848 42	.....	.....	157 50	306 90	543 79	.....	21,856 61
.....	23,912 06	3 00	341 68	.....	75 80	338 84	.....	24,671 38
.....	9,412 24	.....	.....	.....	66 00	97 04	.....	9,575 28
.....	21,955 34	.....	661 62	.....	172 30	350 44	.....	23,139 70
.....	9,822 34	.....	224 24	.....	43 00	170 79	.....	10,260 37
.....	6,324 88	.....	299 91	.....	263 50	96 59	.....	6,984 93
.....	11,032 28	.....	566 64	250 00	116 45	373 80	.....	12,339 17
.....	4,124 97	53 60	499 92	.....	108 75	167 55	.....	4,954 79
.....	3,739 91	.....	100 06	.....	471 25	224 50	.....	4,535 66
.....	11,058 51	.....	566 64	.....	.....	315 03	.....	11,940 18
.....	6,029 91	.....	.....	60 00	129 15	155 56	.....	6,374 62
.....	7,624 91	.....	50 00	.....	170 30	193 96	.....	8,039 17
.....	41,914 41	.....	2,668 54	.....	781 70	790 66	.....	46,155 31
49 08	27,900 44	.....	1,325 02	84 00	413 85	272 98	.....	30,045 37
.....	5,408 35	.....	.....	200 00	1,183 84	127 79	.....	6,919 98
49 08	231,796 99	56 60	8,421 56	751 50	6,251 49	4,671 32	43 98	252,042 52
.....	9,342 99	.....	2,041 45	.....	502 83	606 60	.....	12,493 87
.....	52,910 53	55 50	7,097 85	.....	1,155 48	1,687 94	.....	62,907 30
.....	21,002 46	39 90	4,793 28	.....	900 27	714 34	.....	27,450 25
.....	12,519 94	.....	2,349 96	144 00	275 33	355 83	.....	15,645 06
.....	7,454 81	.....	.....	.....	612 55	277 99	.....	8,345 35
.....	3,424 97	.....	199 92	.....	50 40	133 35	.....	3,808 64
.....	5,200 00	.....	.....	.....	661 25	32 45	.....	5,893 70
.....	111,855 70	95 40	16,482 46	144 00	4,158 11	3,808 50	.....	136,544 17
.....	12,223 51	26 25	.....	.....	56 75	238 45	.....	12,544 96
.....	2,600 00	.....	.....	.....	395 55	43 60	.....	3,039 15
.....	14,823 51	26 25	.....	.....	452 30	282 05	.....	15,584 11
.....	13,399 88	.....	.....	.....	126 55	113 22	.....	12,639 65
.....	3,034 94	.....	.....	.....	265 96	177 90	.....	3,478 89
.....	15,434 82	.....	.....	.....	392 51	291 12	.....	16,118 45
.....	2,499 96	.....	711 79	.....	27 95	82 87	100 00	3,422 57
.....	17,109 41	.....	2,573 60	60 00	554 45	1,127 99	200 00	21,625 45
.....	6,347 06	.....	2,909 65	.....	1,284 95	611 82	.....	11,153 48
.....	3,657 13	.....	987 78	120 00	824 25	288 57	.....	5,877 73
.....	2,600 02	.....	.....	.....	1,607 00	138 45	.....	4,345 47
.....	29,713 62	.....	6,471 03	180 00	4,270 65	2,166 33	200 00	43,002 13

2 GEORGE V., A. 1912

## EXCISE

DR.

No. 4.—COLLECTION DIVISIONS

Bal- ances due by Collect- ors, April 1, 1910.	Amounts received from Depart- ment to meet Expendi- tures.	DEDUCTIONS FROM SALARIES FOR				Bal- ances due to Collect- ors, March 31, 1911.	Totals.	DIVISIONS.
		Super- annua- tion.	Insur- ance.	Retire- ment.	Guar- antee.			
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
23,036 08	37 94	18 72	785 71	65 13	23,943 58	Vancouver.....		
8,859 61	149 68	78 28	22 32	9,109 89	Victoria.....			
4,422 74	51 97	9 00	4,483 71	District Inspector. . . .				
36,318 43	239 59	18 72	863 99	96 45	37,537 18	British Columbia.....		
1,113 80		50 00	7 20	1,171 00	Yukon.....			
363 01				363 01	Inspector of Bonded Fac- tories.....			
955 10				955 10	Inspector of Breweries and Malt Houses . . .			
25 00				25 00	Inspector of Distilleries..			
3,184 55				3,184 55	Inspector of Tobacco Factories.....			
343 98	492,360 76	4,295 73	1,059 98	10,490 12	1,350 14	49 08	509,949 79	Totals of Divisions.....
11,748 32							11,748 32	General Expenditures...
172 00							172 00	Legal Expenses. . . . .
4,369 82							4,369 82	Printing.....
1,776 83							1,776 83	Stationery.....
26 60							26 00	Lithographing and En- graving, &c.....
3,923 07							3,923 07	Commission to Customs Officers...
12,804 89							12,804 89	Duty-pay to Officers in charge of most impor- tant establishments....
3,928 58							3,928 58	Provisional Allowance...
3 16							3 16	Special Translation. ....
71,300 92							71,300 92	Printing Tobacco Stamps
343 98	602,414 35	4,295 73	1,059 98	10,490 12	1,350 14	49 08	620,603 38	Grand Totals. . . . .

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.



SESSIONAL PAPER No. 12

1910-1911.

IN ACCOUNT WITH EXPENDITURES—*Concluded.*

CR.

Balances due to Collectors, April 1, 1910.	EXPENDITURES AUTHORIZED BY THE DEPARTMENT.						Balances due by Collectors, March 31, 1911.	Totals.
	Salaries.	Seizures Expendi- tures.	Special Assist- ance.	Rent.	Travelling Expenses.	Sundries.		
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
.....	17,527 45	.....	3,222 79	456 00	1,255 10	1,482 24	.....	23,943 58
.....	7,074 29	.....	1,572 50	.....	121 85	341 25	.....	9,109 89
.....	2,600 00	.....	.....	.....	1,826 01	57 70	.....	4,483 71
.....	27,201 74	.....	4,795 29	456 00	3,202 96	1,881 19	.....	37,537 18
.....	1,000 00	.....	.....	.....	.....	171 00	.....	1,171 00
.....	300 00	.....	.....	.....	63 01	.....	.....	363 01
.....	300 00	.....	.....	.....	634 75	20 35	.....	955 10
.....	25 00	.....	.....	.....	.....	.....	.....	25 00
.....	2,900 00	.....	.....	.....	247 40	37 15	.....	3,184 55
49 08	437,851 34	178 25	36,882 13	1,531 50	19,701 13	13,412 38	343 98	509,949 79
.....	.....	.....	.....	.....	.....	11,748 32	.....	11,748 32
.....	.....	.....	.....	.....	.....	172 00	.....	172 00
.....	.....	.....	.....	.....	.....	4,369 82	.....	4,369 82
.....	.....	.....	.....	.....	.....	1,776 83	.....	1,776 83
.....	.....	.....	.....	.....	.....	26 00	.....	26 00
.....	.....	.....	.....	.....	.....	3,923 07	.....	3,923 07
.....	.....	.....	.....	.....	.....	12,804 89	.....	12,804 89
.....	.....	.....	.....	.....	.....	3,928 58	.....	3,928 58
.....	.....	.....	.....	.....	.....	3 16	.....	3 16
.....	.....	.....	.....	.....	.....	71,300 92	.....	71,300 92
49 08	437,851 34	178 25	36,882 13	1,531 50	19,701 13	123,465 97	343 98	620,003 38

W. J. GERALD,  
*Deputy Minister.*

## PREVENTIVE SERVICE, 1910-1911.

## No. 5.—IN ACCOUNT WITH EXPENDITURES.

Dr.

Cr.

Amount received from Department to meet Expenditures.		Guarantee.	Totals.		EXPENDITURES AUTHORIZED BY THE DEPARTMENT.					Totals.	
\$	cts.	\$	cts.	\$	cts.	Salaries.	Special Assistance.	Travelling Expenses.	Sundries.	\$	cts.
5	50							5 50			5 50
32	15							32 15			32 15
851	97	2 88				825 00		29 85			854 85
699	96						699 96				699 96
609	65						600 00	9 65			609 65
3,084	03						3,022 58	60 45	1 00		3,084 03
600	00						600 00				600 00
39	15							39 15			39 15
1,331	35					900 00	300 00	131 35			1,331 35
199	92						199 92				199 92
1,060	63						981 63	77 75	1 25		1,060 63
10	40							10 40			10 40
1,186	15								1,186 15		1,186 15
9,710	86	2 88				1,725 00	6,404 09	396 25	1,188 40		9,713 74

W. J. GERALD,  
*Deputy Minister.*INLAND REVENUE DEPARTMENT.  
OTTAWA, June 16, 1911.

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## FOOD INSPECTION, 1910—1911.

No. 6.—IN ACCOUNT WITH EXPENDITURES.

DR.

CR.

Balance due by Inspectors April 1, 1910.	Amount received from Department to meet Expenditures.	Superannuation.	Guarantee.	Totals.	EXPENDITURES AUTHORIZED BY THE DEPARTMENT.					Balance due by Inspectors, March 31, 1911.	Totals.
					Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.		
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
3,616 33	3,616 33			3,616 33							3,616 33
439 40	439 40		1 08	440 48			266 67	438 25	2,911 41		440 48
400 13	400 13		1 08	401 21	200 00			100 95	139 53		401 21
251 67	251 67			251 67	200 00			84 70	116 51		251 67
198 92	198 92			198 92				105 90	145 77		198 92
786 01	786 01		1 08	787 09	200 00						787 09
438 95	438 95		1 08	440 03	200 00		90 00	123 25	45 93	50 00	440 03
734 75	734 75	7 00	1 08	742 83	500 00			123 30	116 73		742 83
675 43	675 43		1 08	676 51	200 00			189 20	203 63		676 51
492 74	492 74		1 08	493 82	350 00			103 50	273 01		493 82
621 59	621 59		1 08	622 67	200 00			216 55	77 27		622 67
585 95	585 95	4 00	1 08	590 03	200 00			268 95	157 72		590 03
369 31	369 31		1 08	370 39	350 00			130 98	106 05		370 39
617 37	617 37		1 08	618 45	200 00			71 35	59 04		618 45
415 34	415 34		1 08	416 42	200 00			270 25	148 20		416 42
27 23	27 23			27 23	200 00			109 65	106 77		27 23
417 12	417 12		1 08	418 20	27 37						418 20
452 47	452 47		1 08	453 55	200 00			63 80	154 40		453 55
359 74	359 74			359 74	200 00			49 85	203 70		359 74
2,770 79	2,770 79			2,770 79					359 74		2,770 79
50 94	50 94			50 94					2,770 79		50 94
6,546 71	6,546 71			6,546 71					50 94		6,546 71
23 09	21,268 89	11 00	16 34	21,318 32	3,727 37		356 67	2,450 43	14,733 85	50 00	21,318 32

W. J. GERALD,  
Deputy Minister.INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911

## BILL STAMPS, 1910-1911.

Dr.

No. 7.—Bill Stamps Distributors in account with the Inland Revenue Department.

Cr.

BALANCES, APRIL 1, 1910.		Totals.	BALANCES, MARCH 31, 1911.		Totals.
Stamps on hand.	Cash on hand.		Stamps on hand.	Cash on hand.	
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1,372 77	11 54	1,372 77	1,372 77	11 54	1,372 77
.....	33 50	33 50	.....	33 50	11 54
.....	.....	160 00	.....	.....	33 50
.....	.....	.....	.....	.....	160 00
1,532 77	45 04	1,577 81	1,532 77	45 04	1,577 81

Post Office Department.....  
 Belleville, ex-Collector E. R. Benjamin.....  
 Three Rivers, ex-Collector B. Lasalle.....  
 McLeod, Colonel J. F., Fort McLeod.....

Totals.....

W. J. GERALD,  
*Deputy Minister.*

INLAND REVENUE DEPARTMENT,  
 OTTAWA, June 16, 1911.





2 GEORGE V., A. 1912

DR.

## No. 9.—SUNDRY MINOR REVENUES, 1910-1911.

CR.

Memo. of Refunds deducted below.	Accrued during the year ended March 31, 1911.	Totals.		Deposited to the Credit of the Receiver General.	Totals.
\$ cts.	\$ cts.	\$ cts.		\$ cts.	\$ cts.
5 00	542 00	542 00	Fertilizer Inspection Fees—\$242 and Licenses \$300.....	542 00	542 00
.....	634 93	634 93	Adulteration of Food Fees—\$180 and Penalties \$454.93.....	634 93	634 93
.....	204 70	204 70	Casual Revenue.....	204 70	204 70
1 00	1,297 16	1,297 16	Patent Medicine Registration Fees \$1,277, Stamps \$0.16 and Fines \$20 ..	1,297 16	1,297 16
.....	225 00	225 00	Licenses to Export Electric Power, Natural Gas, &c. ....	225 00	225 00
.....	74 75	74 75	Electrical Standards Laboratory.....	74 75	74 75
1 00	425 00	425 00	Commercial Feeding Stuff Fees—\$110 and Licenses—\$315.....	425 00	425 00
.....	3,403 54	3,403 54		3,403 54	3,403 54
7 00	.....	7 00	Less Refunds as follows, viz.: Statement No. 15.....	7 00	7 00
.....	3,403 04	3,396 54	.....Totals.....	3,396 04	3,396 04

W. J. GERALD,  
Deputy Minister.

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

## DR. No. 10.—SUNDRY MINOR EXPENDITURES, 1910-1911. CR.

Amounts received from the Department to meet Expenditures.	Totals.		Printing.	Contingencies.	Totals.
\$ cts.	\$ cts.		\$ cts.	\$ cts.	\$ cts.
539 30	539 30	Patent Medicine Act.....	76 45	462 85	539 30
273 55	273 55	Export of Electric Power.....		273 55	273 55
244 44	244 44	International Electrotechnical Commission.....		244 44	244 44
9 17	9 17	Patent Medicine (Special Translation).....		9 17	9 17
1,066 46	1,066 46	.....	76 45	990 01	1,066 46

W. J. GERALD,  
Deputy Minister.

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

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DR.

No. 11.—FERRY LICENSES, REVENUE FOR 1910-1911.

CR.

12—21  
22

Balances due April 1, 1910.	Accrued during the year ended March, 31, 1911.	Totals.	<i>Ferries.</i>	Deposited to the credit of the Receiver General.	Balances due March 31, 1911.	Totals.
\$ cts.	\$ cts.	\$ cts.		\$ cts.	\$ cts.	\$ cts.
.....	15 00	15 00	Buckingham and Cumberland.....	15 00	.....	15 00
.....	50 00	50 00	Buffalo and Point Abino.....	50 00	.....	50 00
45 83	.....	45 83	Clair Station and Kent.....	.....	45 83	45 83
.....	10 00	10 00	Courtright and St. Clair.....	10 00	.....	10 00
20 00	.....	20 00	Edmundston and Maine.....	.....	20 00	20 00
.....	50 00	50 00	Port Erie and Buffalo.....	50 00	.....	50 00
.....	25 00	25 00	Fort Frances.....	25 00	.....	25 00
1,736 79	.....	1,736 79	Hull (old lease).....	.....	1,736 79	1,736 79
.....	50 00	50 00	Lapasse.....	50 00	.....	50 00
.....	6 00	6 00	Montebello and Alfred.....	6 00	.....	6 00
.....	30 00	30 00	Niagara and Youngstown.....	30 00	.....	30 00
1 00	.....	1 00	Ouellette Street, Detroit.....	1 00	1 00	1 00
.....	.....	.....	Pembroke and Allumette Island (old lease).....	.....	.....	.....
.....	130 00	130 00	Pembroke and Allumette Island (new lease).....	130 00	.....	130 00
.....	1 00	1 00	Prescott and Ogdensburg.....	1 00	.....	1 00
.....	5 00	5 00	Rockcliffe and Gatineau.....	5 00	.....	5 00
.....	100 00	100 00	Sault Ste. Marie.....	100 00	.....	100 00
30 00	.....	30 00	St. Leonard and Van Buren.....	.....	30 00	30 00
.....	1 00	1 00	Walkerville and Detroit.....	1 00	.....	1 00
1,833 62	474 00	2,307 62	Totals.....	474 00	1,833 62	2,307 62

INLAND REVENUE DEPARTMENT,

OTTAWA, June 16, 1911.

W. J. GERALD,

Deputy Minister

2 GEORGE V., A. 1912

No. 12.—STATEMENT showing the quantities of the several articles subject  
1909, 1910, 1911, and

ARTICLES SUBJECT TO EXCISE DUTY.	1909.				
	QUANTITIES.			Duty.	
	Ex-manu- factory.	Ex-Ware- house.	Totals.		
	Gallons.	Gallons.	Gallons.	\$	cts.
Spirits.....	{ 19,201 *Imported	{ 3,627,266 109,885	{ 3,646,467 109,885	6,914,123	72 32,965 40
Totals. ....	19,201	3,737,151	3,756,352	6,947,089	12
Malt Liquor, the duty being paid on malt.....	37,317,964		37,317,964	10,952	76
Malt.....	Lbs.	Lbs.	Lbs.	1,389,831	83
		92,631,306	92,631,306		
Cigars—	No.	No.	No.		
Foreign .....	13,476,815	42,503,090	55,979,905	335,889	48
Canadian .....	124,910	366,990	491,810	1,475	43
Combination.....	432,180	1,536,285	1,968,465	5,905	40
Under amended rates of duty (1909).....	78,570,906	55,094,285	133,665,191	267,363	84
Totals.....	92,604,811	99,500,560	192,105,371	610,634	15
Cigarettes—					
Foreign .....	52,647,940	1,741,100	54,389,040	164,506	77
Canadian .....	61,000		61,000	91	50
Combination.....	1,596,400	1,576,100	3,172,500	4,758	75
Under amended rates of duty (1909).....	296,004,140	3,129,450	299,133,590	723,739	59
Totals .....	350,309,480	6,446,650	356,756,130	893,096	61
	Lbs.	Lbs.	Lbs.		
Tobacco from Foreign leaf .....	327,606	2,707,283	3,034,889	758,789	71
" Canadian leaf.....	526,273	1,584	527,857	26,392	87
" Combination .....	319,450	183,368	502,818	25,140	91
Snuff.....	28,682		28,682	5,298	70
Canadian twist.....		19,844	19,844	992	23
Tobacco under amended rates of duty (1909).....	7,645,677	5,283,129	12,928,806	646,639	91
Snuff " " " .....	174,814		174,814	8,541	32
Totals.....	9,022,502	8,195,208	17,217,710	2,364,892	26
Raw leaf tobacco, foreign.....		13,530,827	13,530,827	3,422,858	48
Other materials.....		1,073,732	1,073,732	171,797	12
Total duties on tobacco and cigarettes.....				5,959,547	86
Vinegar.....				68,569	31
Acetic acid.....				3,740	65
Licenses, spirits.....				3,500	00
" malt liquor .....				6,675	00
" malt.....				6,175	00
" cigars.....				15,425	00
" tobacco.....				4,457	00
" bonded manufactures.....				3,100	00
" acetic acid.....				100	00
Grand total duty. ....				15,029,797	68

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

INLAND REVENUE DEPARTMENT,

Ottawa, June 16, 1911.

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

1910.			1911.				
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.
5,280	3,777,156	3,782,436	7,166,260 26	7,058	4,146,452	4,153,510	7,864,335 27
					151,387	151,387	45,416 21
5,280	3,777,156	3,782,436	7,166,260 26	7,058	4,297,839	4,304,897	7,909,751 48
38,558,201		38,558,201	20,838 89	41,752,448		41,752,448	46,818 01
Lbs.	Lbs.	Lbs.		Lbs.	Lbs.	Lbs.	
15,187	95,150,947	95,166,134	1,427,804 32		101,525,430	101,525,430	1,523,271 89
No.	No.	No.		No.	No.	No.	
	2,370,910	2,370,910	14,225 46		950,905	950,905	5,705 43
	106,850	106,850	320 55		94,000	94,000	282 00
111,608,576	91,734,515	203,343,091	408,768 34	126,132,892	100,407,895	226,540,787	453,159 49
111,608,576	94,212,275	205,820,851	421,314 35	126,132,892	101,452,800	227,585,692	459,146 92
			6 00				
440,847,938	10,247,200	451,095,138	1,092,300 07	569,205,170	16,730,200	585,935,370	1,416,070 50
440,847,938	10,247,200	451,095,138	1,092,306 07	569,205,170	16,730,200	585,935,370	1,416,070 50
Lbs.	Lbs.	Lbs.		Lbs.	Lbs.	Lbs.	
	32,160	32,160	8,039 90		1,091	1,091	272 75
	1,193	1,193	59 65				
	20,673	20,673	1,033 65		19,181	19,181	959 05
10,187,431	7,427,199	17,614,630	880,731 56	10,999,196	7,500,886	18,500,082	925,004 28
292,623		292,623	14,631 15	382,968		382,968	19,148 40
10,480,054	7,481,225	17,961,279	1,996,801 98	11,382,164	7,521,158	18,903,322	2,361,454 98
	13,729,875	13,729,875	3,864,607 88		15,012,704	15,012,704	4,239,736 64
	1,269,027	1,269,027	203,044 32		1,123,383	1,123,383	179,741 28
			6,064,454 18				6,780,932 90
			74,710 75				74,564 51
			5,937 14				10,111 94
			3,500 00				3,625 00
			6,475 00				6,075 00
			6,200 00				6,200 00
			11,225 00				11,050 00
			3,145 00				3,207 00
			3,100 00				3,275 00
			100 00				100 00
			15,215,064 89				16,838,159 65

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

W. J. GERALD,  
Deputy Minister.

2 GEORGE V., A. 1912

## 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.....	396,367 40	610,877 13	15,373 61	6,092 32
" Seizures.....		56 80		
Ferries.....	190 00	21 00		
Weights and Measures Inspection.....	1,481 33	1,123 55	75 00	100 00
" " Seizures.....	10 00			
Gas Inspection.....	41 75			
Electric Light Inspection.....	112 50			
" Export Power Licenses.....	200 00		25 00	
Law Stamps (Exchequer Court).....	764 75			
Patent Medicines Fees.....	113 00	25 00	6 00	3 00
Adulteration of Food Fees.....	20 00	5 00		19 00
Fertilizers Fees.....	1 00	27 00		
Methylated Spirits.....	5,427 36	1,868 72		166 93
Commerical Feeding Stuffs.....	14 00			
Totals.....	404,743 09	614,003 20	15,479 61	6,381 25
MAY:—				
Excise.....	461,853 72	702,123 98	12,232 90	6,839 79
" Seizures.....		200 00		
Ferries.....	1 00	5 00		
Weights and Measures Inspection.....	3,937 29	2,645 58	143 36	187 13
Gas Inspection.....	3,644 25	1,369 75	23 00	34 00
Electric Light Inspection.....	1,676 00	526 25	157 75	60 25
Electrical Standards of Laboratory.....	7 50			
Law Stamps (Supreme Court).....	211 85			
" (Exchequer Court).....	523 45			
" (Territorial Court, Yukon).....				
Patent Medicines Fees.....	33 00	16 00	1 00	4 00
Adulteration of Food Fees.....	15 00	40 00	5 00	5 00
Fertilizers Fees.....	18 00			
Methylated Spirits.....	5,046 08	1,279 55	26 24	409 49
Commerical Feeding Stuffs.....	9 00			
Totals.....	476,976 14	708,206 11	12,589 25	7,539 66
JUNE:—				
Excise.....	397,652 57	701,597 92	17,503 84	8,240 32
" Seizures.....	300 00	502 53		
Ferries.....	65 00			
Weights and Measures Inspection.....	2,102 46	2,436 15	446 75	287 23
Gas Inspection.....	2,997 75	869 50	33 75	21 75
Electric Light Inspection.....	1,817 25	937 75	105 00	65 25
Law Stamps (Supreme Court).....	138 95			
" (Exchequer Court).....	532 00			
" (Territorial Court, Yukon).....				
Patent Medicines Fees.....	30 00	8 00		4 00
" Stamps.....		06		
Adulteration of Food Fees.....	46 00			
Methylated Spirits.....	5,570 88	1,697 95	51 00	162 51
Commerical Feeding Stuffs.....				
Fertilizers Fees.....	1 00	1 00		3 00
Totals.....	411,253 86	708,050 86	18,140 34	8,784 06



## SESSIONAL PAPER No. 12

account of Inland Revenues during the Year ended March 31, 1911—*Continued.*

Prince Edward Island.	Manitoba.	Alberta.	Saskatchewan.	British Columbia.	Yukon.	Totals.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
943 40	66,261 82	25,883 80	9,726 61	41,741 45	513 67	1,173,781 21
.....	.....	.....	.....	.....	.....	56 80
.....	.....	351 45	101 62	.....	.....	211 90
.....	.....	.....	.....	.....	.....	3,232 95
.....	.....	.....	.....	.....	.....	10 00
.....	.....	.....	.....	.....	.....	41 75
.....	.....	.....	.....	30 75	.....	143 25
.....	.....	.....	.....	.....	.....	225 00
.....	.....	.....	.....	.....	.....	764 75
2 00	8 00	2 00	1 00	5 00	.....	164 00
.....	.....	.....	.....	.....	.....	44 00
.....	.....	11 00	.....	.....	.....	39 00
.....	.....	.....	.....	.....	.....	7,453 01
.....	.....	.....	.....	.....	.....	14 00
945 40	66,269 82	26,248 25	9,829 23	41,777 20	513 67	1,186,190 72
.....	.....	.....	.....	.....	.....	.....
1,325 97	78,031 59	33,929 20	10,398 63	55,642 24	205 39	1,362,583 41
.....	.....	.....	.....	.....	.....	200 00
.....	.....	.....	.....	.....	.....	6 00
12 90	597 10	371 00	354 67	393 40	.....	8,642 43
.....	223 75	.....	.....	203 00	.....	5,497 75
.....	445 00	421 50	54 75	1,238 50	.....	4,580 00
.....	.....	.....	.....	.....	.....	7 50
.....	.....	.....	.....	.....	.....	211 85
.....	.....	.....	.....	.....	.....	523 45
.....	.....	.....	.....	.....	233 25	233 25
.....	5 00	2 00	1 00	7 00	.....	69 00
.....	.....	12 50	.....	.....	.....	77 50
9 00	.....	.....	.....	.....	.....	27 00
.....	33 55	.....	.....	.....	.....	6,794 91
.....	.....	.....	.....	.....	.....	9 00
1,347 87	79,335 99	34,736 20	10,809 05	57,484 14	438 64	1,389,463 05
.....	.....	.....	.....	.....	.....	.....
1,246 85	73,187 00	31,646 65	12,921 36	57,929 86	618 96	1,302,545 33
.....	.....	.....	.....	.....	.....	802 53
.....	.....	.....	.....	.....	.....	65 00
21 12	831 20	449 50	406 99	396 15	.....	7,377 55
.....	146 25	.....	.....	361 00	.....	4,430 00
21 00	467 50	415 25	.....	469 00	.....	4,298 00
.....	.....	.....	.....	.....	.....	138 95
.....	.....	.....	.....	.....	.....	532 00
.....	.....	.....	.....	.....	183 75	183 75
1 00	2 00	2 00	.....	2 00	.....	49 00
.....	.....	04	.....	.....	.....	10
.....	.....	.....	5 00	.....	.....	51 00
.....	.....	.....	.....	100 94	.....	7,583 28
.....	7 00	.....	.....	.....	.....	7 00
2 00	.....	.....	.....	.....	.....	7 00
1,291 97	74,640 95	32,513 44	13,333 35	59,258 95	802 71	1,328,070 49

2 GEORGE V., A. 1912

## 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.....	387,800 64	555,998 70	16,136 28	6,351 10
" Seizures .....		175 00	100 00	
Weights and Measures Inspection .....	4,457 93	2,875 30	663 80	205 47
Gas Inspection.....	3,030 00	1,209 25	64 00	59 75
Electric Light Inspection.....	1,374 25	825 00	216 00	54 00
Law Stamps (Supreme Court).....	90 80			
" (Exchequer Court).....	204 25			
" (Territorial Court, Yukon).....				
Patent Medicines Fees.....	21 00	5 00	3 00	1 00
" Stamps.....				06
Adulteration of Food Fees.....	96 00	45 28		
Fertilizers Fees.....		2 00		
Methylated Spirits.....	4,952 34	1,914 81	52 56	367 65
Commercial Feeding Stuff.....	16 00			
Casual Revenues .....				
Totals.....	402,043 21	563,050 34	17,235 64	7,039 03
AUGUST:—				
Excise.....	476,829 16	767,136 97	15,865 27	9,921 18
" Seizures .....		134 00	50 00	
Weights and Measures Inspection .....	3,406 30	4,573 65	591 57	511 42
Gas Inspection.....	2,844 75	820 00	55 25	7 50
Electric Light Inspection.....	1,575 75	837 75	77 00	120 50
Law Stamps (Exchequer Court).....	9 50			
" (Territorial Court).....				
Electrical Standard of Laboratory.....	18 75			
Patent Medicines Fees.....	14 00	3 00		
" Fines.....		20 00		
Adulteration of Food Fees.....	5 00	82 00		
Methylated Spirits.....	6,046 71	2,157 25	26 44	
Commercial Feeding Stuffs .....	23 00			
Fertilizers Fees.....		4 00		
Totals.....	490,772 92	775,768 62	16,665 53	10,560 60
SEPTEMBER:—				
Excise.....	461,693 63	774,510 76	15,584 40	9,498 39
" Seizures .....		75 00		
Weights and Measures Inspection .....	2,523 61	2,581 35	288 65	345 50
Gas Inspection.....	2,418 50	1,245 25	29 50	26 50
Electric Light Inspection.....	1,763 90	832 50	29 00	316 75
Law Stamps (Supreme Court).....	85 90			
" (Exchequer Court).....	1,876 25			
" (Territorial Court, Yukon).....				
Patent Medicines Fees .....	52 00	14 00	3 00	3 00
Adulteration of Food Fees.....	13 00	90 15	15 00	
Fertilizers Fees.....	9 00			
Methylated Spirits.....	5,439 35	1,688 82	26 44	73 52
Commercial Feeding Stuffs.....	12 00	2 00		
Totals.....	475,887 14	781,039 83	15,975 99	10,264 66

## SESSIONAL PAPER No. 12

account of Inland Revenues during the Year ended March 31, 1911—*Continued.*

Prince Edward Island.	Manitoba.	Alberta.	Saskatchewan.	British Columbia.	Yukon.	Totals.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1,075 82	83,389 16	30,027 99	11,749 10	53,952 51	608 35	1,147,089 65
78 10	694 85	352 70	308 28	115 70	71 25	275 00
23 00	213 75	180 25	291 25	318 50		9,823 38
8 25	422 75			540 00		4,918 25
						3,911 75
						90 80
						204 25
					447 00	447 00
	2 00	1 00				33 00
		17 00		5 00		06
	35 21			142 52		163 28
		5 00				2 00
	176 70					7,465 09
						21 00
						176 70
1,185 17	84,934 42	30,583 94	12,348 63	55,074 23	1,126 60	1,174,421 21
989 37	81,764 09	36,778 74	12,539 52	97,340 67	1,654 97	1,500,819 94
79 46	577 35	368 45	358 08	422 00		184 00
25 75	203 75	451 25	51 50	326 50		10,888 28
	179 25			815 00		4,257 75
						4,133 75
						9 50
					263 50	263 50
				1 00		18 75
						18 00
				5 00		20 00
	30 36			106 72		92 00
		7 00		9 00		8,367 48
						39 00
						4 00
1,094 58	82,754 80	37,605 44	12,949 10	99,025 89	1,918 47	1,529,115 95
1,319 96	98,553 70	32,807 65	13,560 29	62,351 76	570 71	1,470,451 25
104 36	824 30	477 05	484 23	2,500 00		2,575 00
	232 25	329 00	183 00	252 35		7,882 40
	472 25			213 75		4,165 75
				715 00		4,641 40
						85 90
						1,876 25
	4 00	2 00	3 00	3 00	318 50	318 50
						84 00
						118 15
						9 00
				218 73		7,446 86
						14 00
1,424 32	100,086 50	33,615 70	14,230 52	66,254 59	889 21	1,499,668 46

2 GEORGE V., A. 1912

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

	Ontario.	Quebec.	New Brunswick.	Nova Scotia.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.
<b>OCTOBER :—</b>				
Excise.....	502,852 62	826,697 30	23,906 69	10,109 51
" Seizures.....	25 00	131 65		
Ferries.....	50 00			
Weights and Measures Inspection.....	4,245 16	2,738 30	456 80	303 44
" Seizures.....	20 00			
Gas Inspection.....	2,918 00	1,262 50	97 25	50 00
Electric Light Inspection.....	1,972 10	699 50	231 75	356 25
Law Stamps (Supreme Court).....	253 60			
" (Exchequer Court).....	7,128 14			
" (Territorial Court, Yukon).....				
Patent Medicines Fees.....	38 00	9 00		
Adulteration of Food Fees.....				
Methylated Spirits.....	5,276 62	2,448 38	25 98	
Commercial Feeding Stuffs.....	9 00	2 00		
Totals.....	524,788 24	833,988 63	24,718 47	10,819 20
<b>NOVEMBER :—</b>				
Excise.....	488,084 74	786,771 53	17,748 13	10,440 45
" Seizures.....		69 26		
Ferries.....	1 00			
Weights and Measures Inspection.....	2,901 78	1,185 80	170 51	317 66
Gas Inspection.....	2,795 75	1,001 25		24 75
Electric Light Inspection.....	1,944 75	600 25		122 25
Law Stamps (Supreme Court).....	61 90			
" (Exchequer Court).....	884 45			
" (Territorial Court, Yukon).....				
Patent Medicines Fees.....	15 00	8 00		1 00
Adulteration of Food Fees.....				10 00
Fertilizers Fees.....	32 00	21 00	5 00	
Methylated Spirits.....	5,964 81	1,884 51	51 58	186 99
Commercial Feeding Stuffs.....	47 00	5 00		
Totals.....	502,733 18	791,537 60	17,975 22	11,103 10
<b>DECEMBER :—</b>				
Excise.....	500,449 65	899,926 47	16,400 01	8,254 77
" Seizures.....	250 00	213 25		
Ferries.....	30 00			
Weights and Measures Inspection.....	3,541 12	1,747 00	142 28	198 27
Gas Inspection.....	3,069 50	977 00	42 00	39 00
Electric Light Inspection.....	2,079 25	997 75	172 25	475 50
Electric Standards of Laboratory.....	18 25			
Law Stamps (Supreme Court).....	103 75			
" (Exchequer Court).....	223 25			
" (Territorial Court, Yukon).....				
Patent Medicines Fees.....	14 00	4 00		
Fertilizers Fees.....	91 00	5 00	5 00	5 00
Methylated Spirits.....	4,440 44	1,662 90	26 51	403 19
Commercial Feeding Stuffs.....	82 00	36 00		
Totals.....	514,392 21	905,569 37	16,788 05	9,375 73

## SESSIONAL PAPER No. 12

account of Inland Revenues during the Year ended March 31, 1911—*Continued.*

Prince Edward Island.	Manitoba.	Alberta.	Saskatchewan.	British Columbia.	Yukon.	Totals.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1,367 54	106,204 78	37,244 73	17,710 27	60,263 97	1,117 11	1,587,474 52
				53 55		210 20
						50 00
93 74	762 35	644 00	375 91	367 75		9,987 45
						20 00
10 75	300 00			298 00		4,936 50
29 25	621 00	323 25	302 00	1,169 50		5,704 60
						253 60
						7,128 14
					435 00	435 00
1 00	5 00	1 00	3 00	3 00		60 00
	14 00					14 00
	126 43					7,877 41
						11 00
1,502 28	108,033 56	38,212 98	18,391 18	62,155 77	1,552 11	1,624,162 42
1,041 64	102,402 85	42,071 66	16,396 25	68,572 30	408 32	1,533,937 87
						60 26
						1 00
56 85	681 60	572 40	426 14	413 15	3 00	6,728 89
	283 75			292 25		4,397 75
36 75	834 25	306 00	196 00	1,221 75		5,262 00
						61 90
						884 45
					107 00	107 00
	1 00	2 00		1 00		28 00
				5 00		15 00
				12 00		70 00
						8,087 89
	10 00					62 00
1,135 24	104,213 45	42,952 06	17,018 39	70,517 45	518 32	1,559,704 01
1,532 83	107,702 61	39,879 97	16,650 71	72,275 58	1,839 71	1,664,912 31
						463 25
						30 00
43 96	814 90	396 35	384 32	331 35		7,599 55
	246 75			385 50		4,759 75
55 75	964 00	416 75	437 00	1,129 50		6,727 75
						18 25
						103 75
						223 25
					235 25	235 25
	1 00			2 00		21 00
	7 00	15 00		5 00		133 00
	55 40					6,588 44
		7 00				125 00
1,632 54	109,791 66	40,715 07	17,472 03	74,128 93	2,074 96	1,691,940 55



2 GEORGE V., A. 1912

## 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.....	404,424 09	572,148 70	17,069 09	7,018 35
" Seizures.....	50 00	68 60	50 00	
Ferries.....	4,200 43	1,207 20	43 06	28 12
Weights and Measures Inspection.....	10 00			
" " Seizures.....	2,877 50	1,027 50	52 00	47 00
Gas Inspection.....	1,657 25	811 00	170 00	38 50
Electric Light Inspection.....	3 00			
Electric Standards of Laboratory.....	80 40			
Law Stamps (Supreme Court).....	183 35			
" (Exchequer Court).....				
" (Territorial Court, Yukon).....	27 00	6 00		2 00
Patent Medicines Fees.....				5 00
Adulteration of Food Fees.....	63 00	3 00		
Fertilizers Fees.....	3,803 67	1,352 84	53 28	208 81
Methylated Spirits.....	27 00	5 00		
Commercial Feeding Stuffs.....	28 00			
Casual Revenue.....				
Totals.....	417,434 69	576,579 84	17,437 43	7,347 78
FEBRUARY :—				
Excise.....	417,356 14	719,247 18	11,721 64	4,384 63
" Seizures.....	61 00	409 84		
Ferries.....	3,260 31	899 90	33 00	14 05
Weights and Measures Inspection.....				
" " on account of	367 45			
Testing Milk Glasses.....	2,553 50	925 00	38 25	4 75
Gas Inspection.....	1,622 25	631 00	259 50	169 50
Electric Light Inspection.....	338 15			
Law Stamps (Supreme Court).....	109 25			
" (Exchequer Court).....	36 00	23 00	1 00	
" (Territorial Court, Yukon).....	5 00			
Patent Medicines Fees.....	61 00			
Adulteration of Food Fees.....	5,755 86	2,039 42	25 37	76 09
Fertilizers Fees.....	46 00			
Methylated Spirits.....				
Commercial Feeding Stuffs.....				
Totals.....	431,571 91	724,085 34	12,078 76	4,649 02
MARCH :—				
Excise.....	520,623 31	869,035 46	15,919 32	7,864 11
" Seizures.....		134 49	115 00	
Weights and Measures Inspection.....	6,420 04	3,181 30	138 52	66 17
" " Seizures.....	30 00			
" " on account of				
Testing Milk Glasses.....	307 16			
Gas Inspection.....	4,512 75	1,127 50	94 00	68 50
Electric Light Inspection.....	4,562 75	1,455 75	648 25	127 00
Electrical Standards of Laboratory.....	27 25			
Law Stamps (Supreme Court).....	171 80			
" (Exchequer Court).....	750 50			
" (Territorial Court, Yukon).....	466 00	77 00	16 00	24 00
Patent Medicines Fees.....		30 00		20 00
Adulteration of Food Fees.....	94 00	3 00		
Fertilizers Fees.....	6,699 82	2,054 49	52 22	180 61
Methylated Spirits.....	14 00	14 00		
Commercial Feeding Stuffs.....				
Totals.....	544,679 33	877,112 99	16,983 31	8,350 39

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account of Inland Revenues during the Year ended March 31, 1911—*Concluded.*

Prince Edward Island.	Manitoba.	Alberta.	Saskatchewan.	British Columbia.	Yukon.	Totals.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1,289 61	85,314 08	34,661 40	10,598 93	52,196 45	.....	1,185,020 70
.....	.....	.....	.....	.....	.....	118 60
.....	.....	.....	.....	.....	.....	50 00
16 19	598 25	314 90	355 51	178 34	.....	6,942 00
.....	.....	15 00	.....	.....	.....	25 00
24 50	256 25	.....	.....	307 75	.....	4,592 50
44 25	627 00	327 50	97 25	1,290 25	.....	5,063 00
.....	.....	.....	.....	.....	.....	3 00
.....	.....	.....	.....	.....	.....	80 40
.....	.....	.....	.....	.....	.....	183 35
.....	.....	.....	.....	.....	83 50	83 50
.....	1 00	.....	.....	.....	.....	36 00
.....	.....	.....	.....	.....	.....	5 00
5 00	.....	.....	.....	2 00	.....	73 00
.....	235 07	.....	.....	213 58	.....	5,817 25
.....	5 00	.....	.....	5 00	.....	42 00
.....	.....	.....	.....	.....	.....	28 00
1,379 55	87,036 65	35,318 80	11,051 69	54,493 37	83 50	1,208,163 30
.....	.....	.....	.....	.....	.....	.....
639 20	70,960 16	30,971 10	8,196 95	57,742 59	426 49	1,321,646 08
.....	.....	.....	.....	.....	.....	409 84
.....	.....	.....	.....	.....	.....	61 00
14 95	550 89	403 30	556 75	261 35	.....	5,904 50
.....	.....	.....	.....	.....	.....	367 45
.....	182 50	.....	.....	184 50	.....	3,888 50
8 00	346 75	205 00	445 50	730 50	.....	4,478 00
.....	.....	.....	.....	.....	.....	338 15
.....	.....	.....	.....	.....	.....	109 25
.....	.....	.....	.....	.....	132 00	132 00
.....	1 00	2 00	.....	8 00	.....	71 00
.....	.....	.....	.....	.....	.....	5 00
.....	286 57	.....	.....	.....	.....	61 00
.....	7 00	.....	.....	.....	.....	8,183 31
.....	.....	.....	.....	.....	.....	53 00
662 15	72,327 87	31,648 40	9,199 20	58,926 94	558 49	1,345,708 08
.....	.....	.....	.....	.....	.....	.....
1,509 54	100,933 01	43,541 41	15,924 55	86,343 40	1,155 69	1,662,849 80
.....	.....	.....	.....	.....	.....	249 49
24 55	1,283 05	356 10	626 21	519 71	42 75	12,658 40
.....	.....	.....	.....	.....	.....	30 00
.....	.....	.....	.....	.....	.....	307 16
17 25	285 75	.....	.....	575 25	.....	6,681 00
87 50	580 25	549 25	498 50	2,130 25	.....	10,639 50
.....	.....	.....	.....	.....	.....	27 25
.....	.....	.....	.....	.....	.....	171 80
.....	.....	.....	.....	.....	.....	750 50
.....	.....	.....	.....	.....	267 50	267 50
4 00	20 00	9 00	6 00	22 00	.....	644 00
.....	.....	.....	.....	.....	.....	50 00
.....	.....	13 00	.....	7 00	.....	117 00
.....	227 42	.....	.....	109 99	.....	9,324 55
.....	.....	.....	.....	.....	.....	28 00
1,642 84	103,329 48	44,468 76	17,055 26	89,707 60	1,465 94	1,704,795 95

2 GEORGE V., A. 1912

## RECAPITULATION of Statement No. 13 showing the

	Ontario.	Quebec.	New Brunswick.	Nova Scotia.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Excise.....	5,415,987 67	8,786,072 10	195,461 18	95,014 92
" Seizures.....	575 00	2,161 42	315 00	...
Ferries.....	448 00	26 00	...	...
Weights and Measures Inspection.....	42,477 76	27,105 08	3,193 30	2,565 46
" " Seizures.....	70 00	...	...	...
Gas Inspection.....	33,704 00	11,834 50	529 00	383 50
Electric Light Inspection.....	22,158 00	9,154 50	2,066 50	1,905 75
" Export Power Licenses.....	200 00	...	25 00	...
Law Stamps (Supreme Court).....	1,537 10	...	...	...
" (Exchequer Court).....	13,189 14	...	...	...
" (Territorial " Yukon).....	...	...	...	...
Patent Medicines Fees.....	859 00	197 00	30 00	42 00
" Stamps.....	...	06	...	06
" Fines.....	...	20 00	...	...
Adulteration of Food.....	200 00	292 43	20 00	59 00
Fertilizers Fees.....	370 00	66 00	10 00	8 00
Commercial Feeding Stuffs.....	299 00	64 00	...	...
Electrical Standards of Laboratory.....	74 75	...	...	...
Methylated Spirits.....	64,423 94	21,999 64	417 62	2,235 79
Testing Milk Glasses Revenue.....	674 61	...	...	...
Casual Revenue.....	28 00	...	...	...
Totals.....	5,597,275 97	8,858,992 73	202,067 60	102,214 48

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

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total revenues for the year ended March 31, 1911.

Prince Edward Island.	Manitoba.	Alberta.	Saskatchewan.	British Columbia.	Yukon.	Totals.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
14,281 73	1,054,704 85	419,444 30	156,373 17	766,652 78	9,119 37	16,913,112 07
				2,553 55		5,604 97
						474 00
546 18	8,215 84	5,057 20	4,738 71	3,651 25	117 00	97,667 78
		15 00				85 00
75 50	2,574 75			3,466 00		52,567 25
316 50	5,960 00	3,985 00	2,556 75	11,480 00		59,583 00
						225 00
						1,537 10
						13,189 14
					2,706 25	2,706 25
8 00	50 00	23 00	14 00	54 00		1,277 00
		04				16
						20 00
	14 00	29 50	5 00	15 00		634 93
16 00	7 00	39 00		26 00		542 00
	22 00	26 00		14 00		425 00
						74 75
	1,030 01			892 48		90,999 48
						674 61
	176 70					204 70
15,243 91	1,072,755 15	428,619 04	163,687 63	788,805 06	11,942 62	17,241,604 19

W. J. GERALD,  
*Deputy Minister.*

2 GEORGE V., A. 1912

## EXCISE

DR.

## No. 14.—COMPARATIVE Statement

	April.	May.	June.	July.	August.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Spirits..... { 1909-1910....	717,101 87	461,357 27	469,239 69	480,428 66	497,020 78
{ 1910-1911....	607,673 27	599,498 23	550,213 51	541,966 19	650,489 55
Increase.....		138,140 96	80,973 82	61,537 53	153,438 77
Decrease.....	109,428 60				
Malt Liquor..... { 1909-1910....	7,361 40	1,079 13	1,082 70	2,860 80	894 63
{ 1910-1911....	8,144 40	1,486 10	3,391 38	5,091 32	4,433 00
Increase.....	783 00	406 97	2,308 68	2,230 52	3,533 37
Decrease.....					
Malt..... { 1909-1910....	166,697 14	108,243 07	116,235 49	113,780 71	120,660 09
{ 1910-1911....	133,987 73	136,117 29	134,637 36	143,497 62	143,401 77
Increase.....		27,874 22	18,421 87	29,716 91	24,741 68
Decrease.....	32,709 41				
Tobacco..... { 1909-1910....	520,302 06	508,091 91	526,697 89	558,450 88	545,616 82
{ 1910-1911....	608,716 70	546,745 40	550,934 95	467,279 83	630,687 98
Increase.....	88,414 64	38,653 49	24,237 06		85,071 16
Decrease.....				91,171 05	
Cigars..... { 1909-1910....	42,740 75	35,720 80	38,155 94	38,428 88	36,353 45
{ 1910-1911....	46,490 48	39,263 13	41,010 46	38,531 80	40,846 86
Increase.....	3,749 73	3,542 33	2,854 52	102 92	4,493 41
Decrease.....					
Manufactures in Bond. { 1909-1910....	9,105 06	8,353 43	5,675 02	7,156 53	8,981 74
{ 1910-1911....	9,408 78	8,890 18	7,840 77	5,558 70	9,167 02
Increase.....	303 72	536 75	2,165 75		185 28
Decrease.....				1,597 83	
Acetic Acid..... { 1909-1910....	1,130 73	617 99	334 34	179 34	693 44
{ 1910-1911....	763 60	972 66	580 05	533 56	735 83
Increase.....		354 67	245 71	354 22	42 39
Decrease.....	367 13				
Seizures..... { 1909-1910....	179 95	589 44	259 80	15 00	380 25
{ 1910-1911....	56 80	406 03	621 50	377 70	56 30
Increase.....			361 70	362 70	
Decrease.....	123 15	183 41			323 95
Other Receipts.. { 1909-1910....	10,525 82	4,746 31	5,548 00	3,066 35	3,085 50
{ 1910-1911....	16,011 85	2,976 68	4,098 85	4,772 75	5,212 58
Increase.....	5,486 03			1,766 40	2,127 08
Decrease.....		1,769 63	1,449 15		
Total Revenue..... { 1909-1910....	1,475,144 78	1,128,799 35	1,163,228 87	1,204,307 15	1,213,716 70
{ 1910-1911....	1,431,253 61	1,336,355 70	1,293,348 83	1,207,609 47	1,487,030 89
Total Increase.....		207,556 35	130,119 96	3,302 32	273,314 19
" Decrease.....	43,891 17				

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.



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## REVENUES.

of Receipts for 1909-1910 and 1910-1911.

CR.

September.	October.	November.	December.	January.	February.	March.	Totals.
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
627,968 42 719,769 23	691,132 18 726,940 05	709,711 90 811,338 80	907,358 79 914,187 12	540,349 17 577,963 99	504,097 76 576,831 54	563,963 77 636,505 00	7,169,760 26 7,913,376 48
91,800 81	35,807 87	101,626 90	6,828 33	37,614 82	72,733 78	72,541 23	743,616 22
3,508 96 4,246 95	1,105 73 2,959 42	1,798 00 5,023 88	675 80 4,714 25	1,402 39 2,340 78	2,025 82 2,275 03	3,518 53 8,786 50	27,313 89 52,893 01
737 99	1,853 69	3,225 88	4,038 45	938 39	249 21	5,257 97	25,579 12
115,997 36 127,115 26	102,951 65 107,385 11	117,456 22 128,226 29	115,369 17 114,777 45	111,247 92 102,115 72	108,898 80 109,997 57	136,466 70 146,192 72	1,434,004 32 1,529,471 89
11,117 90	4,433 46	10,770 07	591 72	9,132 20	1,098 77	9,726 02	95,467 57
543,916 04 587,823 81	526,347 46 587,546 59	545,115 71 625,906 85	431,978 00 489,766 79	422,251 58 531,983 36	521,369 87 569,954 58	417,460 96 586,793 06	6,067,599 18 6,784,139 90
43,907 77	61,199 13	80,791 14	57,788 79	109,731 78	48,584 71	169,332 10	716,540 72
35,810 48 40,306 96	36,343 01 39,402 76	38,525 56 42,453 44	34,747 81 39,960 16	29,230 66 31,336 66	28,745 34 30,967 89	37,936 67 39,626 32	432,539 35 470,196 92
4,496 48	3,059 75	4,127 88	5,212 35	2,106 00	2,222 55	1,689 65	37,657 57
11,477 77 11,801 51	8,212 90 8,520 73	6,354 06 4,893 54	3,115 91 1,797 41	2,159 78 1,750 56	2,163 15 2,471 70	5,055 40 5,733 61	77,810 75 77,839 51
323 74	307 83	1,455 52	1,318 50	409 22	308 55	678 21	28 76
557 95 1,494 59	354 69 1,434 51	482 23 1,728 77	326 39	213 91 583 31	645 73 573 90	500 40 841 16	6,037 14 10,241 94
936 64	1,079 82	1,246 54	326 39	369 40	71 83	340 76	4,204 80
420 00 2,578 55	137 40 206 65	432 06 60 26	341 61 463 25	115 50 168 60	67 86 359 84	111 90 249 49	3,050 77 5,604 97
2,158 55	69 25	271 80	121 64	53 10	291 98	137 59	2,554 20
4,302 00 4,960 37	3,679 21 8,443 38	5,920 76 6,630 51	6,611 85 4,588 97	5,100 99 8,813 25	6,725 70 2,646 12	6,296 69 6,603 22	65,549 18 75,788 53
658 37	4,764 17	709 75	2,022 88	3,742 26	4,079 58	306 53	10,239 35
1,343,958 98 1,590,997 23	1,370,264 23 1,482,839 20	1,425,596 50 1,626,267 34	1,500,525 33 1,570,255 40	1,112,071 90 1,257,086 23	1,174,740 03 1,296,078 17	1,171,311 02 1,431,331 08	13,283,664 84 16,919,553 15
156,138 25	112,574 97	200,670 84	69,730 07	145,014 33	121,338 14	260,020 66	1,635,888 31

W. J. GERALD,  
Deputy Minister.

No. 15.—REFUNDS of Revenue during the fiscal year ended March 31, 1911.

## EXCISE.

Articles.	To whom paid.	Date.	Divisions.	Under what Authority Refunded.	Amounts.	Totals.
					cts.	cts.
Spirits.	Parke, Davis & Co.	1910. Apl. 14.	Windsor.	Refunded under Revised Statutes, cap. 34, sec. 238.	360 69	238
	"	" 27.	"	"	238 62	238
	J. J. Heney.	" 6.	Prescott.	"	18,427 12	238
	Parke, Davis & Co.	" 7.	Windsor.	"	223 38	238
	"	" 12.	"	"	291 17	238
	"	" 18.	"	"	675 52	238
	J. J. Heney.	" 18.	Prescott.	"	16,411 33	238
	Eastern Townships Bank for A. L. Howard & Co.	" 23.	Sherbrooke.	"	4,788 14	238
	Parke, Davis & Co.	" 28.	Windsor.	"	232 92	238
	"	" June	"	"	277 68	238
	"	" 1.	"	"	38 00	238
	"	" 14.	"	"	394 14	238
	"	" 22.	"	"	485 46	238
	Gooderham & Worts.	" 25.	Toronto.	"	4 67	238
	Parke, Davis & Co.	" July 11.	Windsor.	"	425 13	238
	"	" 16.	"	"	411 11	238
	"	" 9.	"	"	708 97	238
	"	" Aug.	"	"	172 78	238
	"	" 17.	"	"	512 39	238
	"	" 26.	"	"	131 87	238
	"	" Sept.	"	"	276 01	238
	"	" 19.	"	"	815 75	238
	"	" Oct.	"	"	529 54	238
	"	" 7.	"	"	5,789 62	238
	Eastern Townships Bank for A. L. Howard & Co.	" 18.	Sherbrooke.	"	162 33	238
	Hamilton, J. S., & Co.	" 18.	Brantford.	"	206 62	238
	Parke, Davis & Co.	" 21.	Windsor.	"	269 16	238
	"	" 27.	"	"	289 16	238
	"	" 27.	"	"	171 84	238
	"	" Nov.	"	"	37 63	238
	"	" 2.	"	"	221 35	238
	"	" 18.	"	"	624 81	238
	"	" 21.	"	"	278 78	238
	"	" 26.	"	"	55 61	238
	"	" Dec.	"	"	238 96	238
	"	" 1.	"	"		238
	"	" 13.	"	"		238
	"	" 20.	"	"		238

Company	Year	City	Refunded	Less refunded by Parke, Davis & Co.	Total
Corby, H., Distillery Co., Ltd	"	Belleville	"	"	6 63
Goderham & Worts, Ltd...	"	Toronto	"	"	5 22
Parke, Davis & Co.	"	Windsor	"	"	311 14
"	"	"	"	"	196 12
1911.					
"	Jan.	"	"	"	132 20
"	"	"	"	"	313 27
"	"	"	"	"	309 54
"	Feb.	"	"	"	197 50
"	"	"	"	"	175 46
"	"	"	"	"	742 87
"	"	"	"	"	99 89
"	Mar.	"	"	"	146 57
"	"	"	"	"	101 87
"	"	"	"	"	558 81
"	"	"	"	"	46 77
"	"	"	"	"	120 75
"	Apr.	"	"	"	590 79
"	"	"	"	"	318 93
"	"	"	"	"	59,592 05
"	"	"	"	"	50 93
1910.					
Bowie & Co.'s Brewery, Ltd.	May	Prescott	Refunded under Revised Statutes, cap. 34 sec. 238		103 97
Bernhardt, V. P.	"	Guelph	"	"	251 61
Jones, Simeon, Ltd.	"	St. John.	"	"	240 00
Ready, James	"	"	"	"	780 00
Mueller, August	"	"	"	"	59 85
Union Brewing Co.	"	Vancouver	"	"	300 00
Vancouver Breweries, Ltd.	"	Victoria	"	"	396 00
Silver Spring Brewery, Ltd.	"	Vancouver	"	"	694 77
Nelson Brewing Co., Ltd.	"	Sherbrooke	"	"	30 00
Copland Brewing Co., Ltd.	"	Vancouver	"	"	872 63
Henderson, H.	"	Toronto	"	"	29 40
Nelson, Nels.	"	Vancouver	"	"	27 00
Proteau & Carignan	"	Quebec	"	"	765 00
Vancouver Breweries, Ltd.	"	Vancouver	"	"	391 50
Lethbridge Brewing & Malt-	"	"	"	"	
ing Co., Ltd., The	"	"	"	"	
Vancouver Breweries, Ltd.	"	"	"	"	
Hoschen Wentzler Brewing	"	"	"	"	
Co., Ltd., The	"	"	"	"	
Lethbridge Brewing & Malt-	"	"	"	"	
ing Co., Ltd., The	"	"	"	"	
Vancouver Breweries, Ltd.	"	"	"	"	
Lethbridge Brewing & Malt-	"	"	"	"	
ing Co., Ltd., The	"	"	"	"	
Hoschen Wentzler Brewing	"	"	"	"	
Co., Ltd., The	"	"	"	"	
1909.					
"	"	"	"	"	225 00
"	"	"	"	"	611 25
"	"	"	"	"	92 70
"	"	"	"	"	270 00
"	"	"	"	"	543 00
"	"	"	"	"	408 00
"	"	"	"	"	61 80

## No. 15.—REFUNDS OF REVENUE—Continued.

## EXCISE—Continued.

Articles.	To whom paid.	Date.	Divisions.	Under what Authority Refunded.	Amounts.		Totals.	
					£	cts.	£	cts.
Malt ( <i>continued</i> )....	Westbrook & Hacker .....	1910.						
	Vancouver Breweries, Ltd. ....	Oct. 8	Brantford .....	Refunded under Revised Statutes, cap. 29 sec. 78.	40	80		
	Hoschen Wentzler Brewing Co., Ltd., The .....	" 12	Vancouver .....	" 34 " 238	246	00		
	Victoria Phoenix Brewing Co., Ltd. ....	" 18	Moosejaw .....	" 34 " 238	185	40		
	Lethbridge Brewing & Malting Co., Ltd., The .....	" 29	Victoria .....	" 34 " 238	246	00		
	Vancouver Breweries, Ltd. ....	Nov. 10	Calgary .....	" 34 " 238	372	00		
	Hoschen Wentzler Brewing Co., Ltd., The .....	" 11	Vancouver .....	" 34 " 238	373	50		
	Lethbridge Brewing & Malting Co., Ltd., The .....	" 15	Moosejaw .....	" 34 " 238	123	60		
	" " " .....	" 16	" .....	" 34 " 238	50	70		
	Edmonton Brewing & Malting Co., Ltd., The .....	Dec. 10	" .....	" 34 " 238	270	00		
	Hoschen Wentzler Brewing Co., Ltd., The .....	" 10	Calgary .....	" 34 " 238	81	00		
	Vancouver Breweries, Ltd. ....	" 10	Moosejaw .....	" 34 " 238	88	80		
	Anderton & Co. ....	" 13	Vancouver .....	" 34 " 238	382	50		
	" " " .....	" 14	Toronto .....	" 34 " 238	30	45		
	Lethbridge Brewing & Malting Co., Ltd., The .....	1911.						
	Canadian Brewing & Malting Co., Ltd. ....	Jan. 10	Moosejaw .....	" 34 " 238	220	50		
	Nelson Brewing Co., Ltd. ....	" 12	Vancouver .....	" 34 " 238	76	50		
	Vancouver Breweries, Ltd. ....	" 12	" .....	" 34 " 238	30	00		
	Hoschen Wentzler Brewing Co., Ltd., The .....	" 14	" .....	" 34 " 238	462	00		
	Edmonton Brewing & Malting Co., Ltd. ....	" 16	Moosejaw .....	" 34 " 238	81	00		
	Edmonton Brewing & Malting Co., Ltd. ....	" 16	Calgary .....	" 34 " 238	240	00		
	O'Dwyer, Patrick .....	Feb. 1	London .....	" 29 " 78	279	00		
					1	55		

## SESSIONAL PAPER No. 12

Victoria Phoenix Brewing Co., Ltd.	"	7.	Victoria.....	"	"	34	"	238....	123 00
Lethbridge Brewing & Malting Co., Ltd., The.....	"	9.	Calgary .....	"	"	34	"	238....	84 00
Beaumont Brewing Co., The.....	"	11.	Quebec.....	"	"	29	"	78....	450 00
Union Brewing Co., Ltd., The.....	"	11.	London.....	"	"	34	"	238....	44 40
Boswell & Bro., Ltd. ....	"	13.	Quebec.....	"	"	29	"	78....	107 69
Rowie & Co. Brewery, Ltd. ....	"	13.	Prescott.....	"	"	29	"	78....	198 60
Vancouver Breweries, Ltd., Canadian Brewing & Malting Co., Ltd. ....	"	14.	Vancouver.....	"	"	34	"	238....	264 00
Brantford Brewing Co., Ltd., The.....	"	15.	" .....	"	"	34	"	238....	171 00
New Ontario Brewery Co., Ltd. ....	"	15.	Brantford.....	"	"	34	"	238....	33 33
Rowie & Co. Brewery, Ltd., Edmonton Brewing & Malting Co., Ltd. ....	Mar.	4.	Perth.....	"	"	29	"	78....	166 11
Hoeschen Wentzler Brewing Co., Ltd., The.....	"	4.	Prescott.....	"	"	29	"	78....	354 60
Lethbridge Brewing & Malting Co., Ltd., The.....	"	8.	Calgary .....	"	"	34	"	238....	29 00
Canadian Brewing & Malting Co., Ltd. ....	"	8.	Moosejaw.....	"	"	34	"	238....	27 00
Carling, F. H. ....	"	13.	Calgary .....	"	"	34	"	238....	174 00
McCarthy, T. C. ....	"	16.	Vancouver.....	"	"	34	"	238....	85 50
Edmonton Brewing & Malting Co., Ltd. ....	Apr.	30.	London.....	"	"	34	"	238....	57 12
Hoeschen Wentzler Brewing Co., Ltd., The.....	"	5.	Prescott.....	"	"	29	"	78....	88 92
Nelson, Nels .....	"	6.	Calgary .....	"	"	34	"	238....	126 00
Vancouver Breweries, Ltd., Union Brewing Co., Ltd., Corby H. Distillery Co., Ltd.	"	11.	Moosejaw.....	"	"	34	"	238....	135 75
Roy, James A. ....	"	13.	Vancouver.....	"	"	34	"	238....	15 00
Oland, J. C. ....	"	15.	" .....	"	"	34	"	238....	780 00
Bixol, A. ....	"	25.	Victoria.....	"	"	34	"	238....	390 00
Sleeman, Geo. A. ....	"	27.	Belleville.....	"	"	29	"	78....	135 00
Berlin, Lion Brewery, Ltd., The.....	"	27.	" .....	"	"	29	"	78....	143 40
Rau, Mary.....	"	27.	Brantford.....	"	"	29	"	78....	44 64
Holliday, W. R. ....	"	27.	" .....	"	"	29	"	78....	399 90
Bauer, A. ....	"	27.	Calph.....	"	"	29	"	78....	660 75
Lutz, W. H. ....	"	27.	" .....	"	"	29	"	78....	1,122 00
Bernhardt, V. P. ....	"	27.	" .....	"	"	29	"	78....	183 60
Seagram, J. E. ....	"	27.	" .....	"	"	29	"	78....	391 21
Hamilton Brewing Association, Ltd., The.....	April	27.	Hamilton.....	"	"	29	"	78....	2,630 96
Grant's Spring Brewery Co., Ltd. ....	"	27.	" .....	"	"	29	"	78....	33 56
	"	27.	" .....	"	"	29	"	78....	207 46
	"	27.	" .....	"	"	29	"	78....	225 00
	"	27.	" .....	"	"	29	"	78....	631 35
	"	27.	" .....	"	"	29	"	78....	860 50





Cosgrave Brewery Co., Ltd., The.....	"	28	Toronto	"	"	29	"	78	1,439 63
Reinhardt, L.....	"	28	"	"	"	29	"	78	1,693 50
Keup, D. C.....	"	28	"	"	"	29	"	78	179 30
Korman Brewery, Ltd., The.....	"	28	"	"	"	29	"	78	54 00
Copland Brewing Co., Ltd.....	"	28	"	"	"	29	"	78	2,037 75
Soo Falls Brewing Co., Ltd.....	"	28	"	"	"	29	"	78	717 75
Barrie Malting and Extract Co., The.....	"	28	"	"	"	29	"	78	76 59
Wright, A. J.....	"	28	"	"	"	29	"	78	17 32
O'Keefe Brewery Co., Ltd., The.....	"	28	"	"	"	29	"	78	4,607 08
Toronto Brewing and Mal- ting Co., Ltd.....	"	28	"	"	"	29	"	78	738 15
Donington Brewery Co., Ltd., The.....	"	28	"	"	"	29	"	78	1,334 85
Gooderham & Worts, Ltd.....	"	28	"	"	"	29	"	78	828 15
Dawes & Co., Ltd.....	"	28	Montreal	"	"	29	"	78	1,700 81
Dow, W. & Co.....	"	28	"	"	"	29	"	78	2,279 57
Molson, John T.....	"	28	"	"	"	29	"	78	4,365 00
Canada Malting Co., Ltd., The.....	"	28	"	"	"	29	"	78	7,491 63
Robitaille Eureka Distillery Ltd.....	"	28	Quebec	"	"	29	"	78	334 50
St. Hyacinthe Distillery Co., Ltd., The.....	"	28	"	"	"	29	"	78	75 00
Jones, Simeon, Ltd.....	"	28	St. John	"	"	29	"	78	210 00
Ready, James.....	"	28	"	"	"	29	"	78	747 00
Oland & Son.....	"	28	Halifax	"	"	29	"	78	299 23
Halifax Breweries, Ltd.....	"	28	"	"	"	29	"	78	443 96
Wickwire, W. N.....	"	28	"	"	"	29	"	78	825 00
Hiram Walker & Sons, Ltd.....	"	29	Windsor	"	"	29	"	78	1,759 53
Irion, A. L.....	"	29	"	"	"	29	"	78	483 75
Mueller, J.....	"	29	Moosejaw	"	"	29	"	78	121 00
Moosejaw B. & M. Co., Ltd.....	"	29	"	"	"	29	"	78	150 00
Hoischen Wentzler Brewing Co., Ltd.....	"	29	"	"	"	29	"	78	330 00
Golden Lion Brewing Co.....	"	29	"	"	"	29	"	78	188 62
Pilsener Brewing Co.....	"	29	Victoria	"	"	29	"	78	109 89
Victoria Phoenix Brewing Co., Ltd.....	"	29	"	"	"	29	"	78	750 00
Silver Spring Brewing Co.....	"	29	"	"	"	29	"	78	493 76
Lethbridge B. & M. Co., Ltd., The.....	"	29	Calgary	"	"	34	"	238	109 50
1910.									
Carreras & Mercianus Cigar- ettes, Ltd.....	June	29	Montreal	"	"	34	"	238	156 00
Belyea, T. H.....	"	29	St. John	"	"	34	"	238	0 20
Carreras & Mercianus Cigar- ettes, Ltd.....	July	27	Montreal	"	"	34	"	270	168 00

72,398 57

Tobacco.....

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

Articles.	To whom paid.	Date.	Divisions.	Under what Authority refunded.	Amounts.		Totals.	
					\$	cts.	\$	cts.
Tobacco—( <i>continued</i> )	Geo. E. Tuckett & Son Co., Ltd., The .....	1910.						
	Nicholson, D. ....	Sept. 29.	Hamilton.....	Refunded under Revised Statutes cap. 34 sec. 238.	35	80		
	Imperial Tobacco of Canada, Ltd. ....	" 29.	Charlottetown .....	" 34 " 238.	9	36		
	Carreras & Mercianus Cigarettes, Ltd. ....	Oct. 6.	Montreal .....	" 34 " 238.	55	63		
	Macdonald, W. C. ....	" 6.	" .....	" 34 " 270.	203	68		
	Carreras & Mercianus Cigarettes, Ltd. ....	" 22.	" .....	" 34 " 270.	9	46		
		" 27.	" .....	" 31 " 270.	216	00		
		1911.						
	Carreras & Mercianus Cigarettes, Ltd. ....	Jan. 17.	" .....	" 34 " 270.	192	00		
	Thompson & Nadeau .....	" 27.	Quebec .....	" 34 " 238.	25	00		
Officers' salary .....	Carreras & Mercianus Cigarettes, Ltd. ....	Mar. 29.	Montreal .....	" 34 " 270.	264	00		
	Cooke, H. C. ....	April 5.	Owen Sound .....	" 34 " 238.	17	36		
	Carreras & Mercianus Cigarettes, Ltd. ....	" 18.	Montreal .....	" 34 " 270.	152	00		
							1,504	49
		1910.						
	Leopold Larue .....	May 18.	Montreal .....	" 34 " 238.	300	00		
	Allen Solomon .....	June 2.	Brantford .....	" 34 " 238.	300	00		
	Belleville Fruit and Vinegar Co. ....	Nov. 16.	Belleville .....	" 34 " 238.	125	00		
							725	00
Manufactures in Bond .....	Allen, S. (Estate of late) .....	Sept. 29.	Brantford .....	" 31 " 238.	76	01		
	British Columbia Distillery Co., Ltd. ....	Nov. 16.	Vancouver. ....	" 34 " 238.	4	60		
		" 16.	Ottawa .....	" 34 " 238.			80	01
							25	00
Warehouse Licenses.				Total Excise .....			134,274	19

SESSIONAL PAPER No. 12

Gas Inspection .....	The Sarnia Gas & Electric Light Co. ....	23..	Sarnia.....	"	34 "	238.....	42 00
Fertilizers' Fees.....	Blackee Bros. ....	24..	Halifax .....	"	34 "	238.....	5 00
Patent Medicines.....	Benedict F. S. & Co .....	Dec. 15..	Montreal.....	"	34 "	238.....	1 00
		1911.					
Commercial Feeding Stuffs .....	Siple R. A. ....	Feb. 13..		"	34 "	238.....	1 00
					Total .....		134,323 19

W. J. GERALD,  
*Deputy Minister.*

INLAND REVENUE DEPARTMENT,  
Ottawa, June 16, 1911.

No. 16.—DEPARTMENT EXPENDITURES FOR 1910-1911.

Dr.

Cr.

Due by sundry persons, April 1, 1910.	DEDUCTIONS FOR			Totals.	Salaries.	Contingen- cies.	Due by sundry persons, March 31, 1911.	Totals.
	Superan- nation.	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
93,022 28	183 63	267 34	2,893 37	96,666 62	96,666 62			96,666 62
285 46				285 46		285 46		285 46
508 58				508 58		508 58		508 58
1,013 08				1,013 08		1,013 08		1,013 08
102 43				102 43		132 43		102 43
1,491 20				1,491 20		1,491 20		1,491 20
1,919 90				1,919 90		1,919 90		1,919 90
11 00				11 00		11 00		11 00
1,565 69				1,582 35		1,565 69	16 66	1,582 35
106,919 62	483 63	267 34	2,893 37	110,580 62	103,666 62	6,897 34	16 66	110,580 62

INLAND REVENUE DEPARTMENT,

OTTAWA, June 16, 1911.

W. J. GERALD,  
*Deputy Minister.*



## SESSIONAL PAPER No. 12

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

No. 17.—STATEMENT showing amount of Revenue accrued during the year ended March 31, 1911.

Dr.

	Weights and Measures Stamps.	Gas Stamps.		Electric Light Stamps.		LAW STAMPS.			Totals.
		¢	cts.	¢	cts.	Supreme Court.	Exchequer Court.	Yukon Territorial Court.	
To amount of stamps destroyed and returned by distributors		67	45						¢ cts.
To commission allowed				1	756		694		1,824 50
To amount of stamps remaining in hands of distributors, March 31, 1911.		91,227	78	54,280	00	35	40	6,074	95
To balance being the revenue during the year ended March 31, 1911.		97,901	69	52,567	25	1,537	10	2,706	25
Totals.		189,196	92	106,848	30	1,572	50	8,781	20
									437,240 97

Cr.

By amount of stamps in the hands of distributors, April 1, 1910	82,031	92	51,060	80	52,483	75	72	50	7,281	20	193,630	17
By stamps issued by the Inland Revenue Department during the year ended March 31, 1911 . . . . .	107,165	00	55,787	50	64,375	00	1,500	00	13,883	30	244,210	80
Totals.	189,196	92	106,848	30	116,858	75	1,572	50	13,883	30	437,240	97

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

W. J. GERALD,  
*Deputy Minister.*

## WEIGHTS AND MEASURES, 1910-1911.

Dr.

No. 18 (A).—INSPECTION DIVISIONS in Account with Revenue.

Cr.

BALANCES DUE BY INSPECTORS, APRIL 1, 1910.			Seizures and Penalties.	Other Receipts.	Totals.	Divisions.	Stamps returned or destroyed.	Deposited to the Credit of the Receiver General.	BALANCES DUE BY INSPECTORS, MARCH 31, 1911.		Totals.
Stamps on hand.	Cash on hand.								Stamps on hand.	Cash on hand.	
§ cts.	§ cts.	§ cts.	§ cts.	§ cts.	§ cts.		§ cts.	§ cts.	§ cts.	§ cts.	§ cts.
3,401 65	2,250 00	5,651 65			5,651 65	Bellefleur.....		2,038 85	3,612 80		5,651 65
5,285 38	9,455 00	13,270 38	30 00		13,270 38	Hamilton.....		10,215 37	5,055 01		15,270 38
1,553 15	1,325 00	3,078 15			3,078 15	Kingston.....		1,719 05	1,359 10		3,078 15
11,069 70	11,650 00	22,719 70			22,719 70	London.....		12,208 35	10,511 35		22,719 70
1,793 76	4,410 00	6,203 76			6,203 76	Ottawa.....	2 65	3,333 61	2,867 50		6,203 76
7,730 69	10,300 00	18,070 69	40 00		18,070 69	Toronto.....		13,032 53	5,038 16		18,070 69
30,834 33	40,000 00	70,994 33	70 00		70,994 33	Ontario.....	2 65	42,547 76	28,443 92		70,994 33
15,221 00	22,400 00	37,621 00			37,621 00	Montreal.....		12,399 00	25,222 00		37,621 00
4,212 95	4,300 00	8,555 95			8,555 95	Quebec.....		5,113 15	3,442 80		8,555 95
8,717 38	5,375 00	14,692 38			14,692 38	St. Hyacinthe.....	2 00	9,339 18	5,358 70	52 50	14,692 38
2,541 85	525 00	3,066 85			3,066 85	Three Rivers.....		353 75	2,713 10		3,066 85
30,693 18	33,200 00	63,896 18			63,896 18	Quebec.....	2 00	27,105 08	36,776 60	52 50	63,896 18
1,551 94	3,540 00	5,094 94			5,094 94	St. John, N.B.....		3,133 30	1,676 73	224 91	5,094 94
386 90	1,076 00	1,462 90			1,462 90	Cape Breton.....	46 30	712 73	703 87		1,462 90
1,855 25	332 50	2,187 75			2,187 75	Halifax.....		1,117 87	1,069 91		2,187 75
1,965 53	1,261 00	3,166 53			3,166 53	Pictou.....	1 50	674 86	2,490 17		3,166 53
4,147 71	2,669 50	6,817 21			6,817 21	Nova Scotia.....	47 80	2,565 46	4,203 95		6,817 21

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751 08	236 00	.....	987 08	.....	546 18	440 90	.....	987 08
4,924 28	11,787 50	.....	16,711 78	.....	8,215 84	8,495 94	.....	16,711 78
1,180 55	5,987 00	.....	7,167 55	.....	4,738 71	2,428 84	.....	7,167 55
1,949 60	5,860 00	15 00	7,824 60	.....	5,072 20	2,737 40	.....	7,824 60
1,322 05	1,070 00	.....	2,392 05	.....	1,226 30	1,165 75	.....	2,392 05
2,285 20	2,725 00	50	5,010 70	.....	2,424 95	2,585 75	.....	5,010 70
3,607 25	3,795 00	50	7,402 75	.....	3,651 25	3,751 50	.....	7,402 75
2,389 00	.....	.....	2,389 00	.....	117 00	2,272 00	.....	2,389 00
82,031 92	43 00	85 00	189,325 42	.....	97,752 78	91,227 78	277 41	189,325 42
.....	.....	.....	674 61	W. & M. on account of testing milk glasses.....	674 61	.....	.....	674 61
.....	.....	.....	190,000 03	Grand Totals.....	98,427 39	.....	.....	190,000 03

INLAND REVENUE DEPARTMENT  
OTTAWA, June 16, 1911.

W. J. GERALD,  
Deputy Minister.

2 GEORGE V., A. 1912

## WEIGHTS AND MEASURES, 1910-1911.

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

Dr.

Cr.

Balances due April 1, 1910. — Cash on hand.	Totals.	Divisions.	Balances due April 1, 1911. — Cash on hand.	Totals.
\$ 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. J. GERALD,  
*Deputy Minister.*

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

SESSIONAL PAPER No. 12

## WEIGHTS AND MEASURES—1910-1911.

Cr.

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

Dr.

Amounts received from Department to meet Expenditures.				DEDUCTIONS FROM SALARIES FOR				Divisions.				EXPENDITURES AUTHORIZED BY THE DEPARTMENT.				Totals.			
\$	cts.	%	cts.	Superannuation.	%	cts.	%	Insurance.	%	cts.	%	Totals.	%	cts.	%	Salaried.	%	cts.	%
39,565 38			76 94				66 60					39,708 92				29,755 63		480 00	
11,681 46			18 97				16 20					11,716 63				7,949 72		550 00	
10,509 47			38 40				17 10					10,564 97				7,133 10		600 00	
7,660 02							9 00					7,669 02				3,974 83		1,282 45	
1,907 61							5 40					1,946 01				1,799 90			
31,758 56			57 37				47 70					31,896 63				20,857 55		2,432 45	
4,503 77							9 00					4,512 77				3,600 00			
1,468 63																			
3,839 85							3 60					1,472 23				1,000 01			
2,241 28							5 40					3,845 25				1,749 84		799 92	
							5 40					2,298 72				1,949 97			
7,549 76			22 01				14 40					7,586 20				4,699 82		799 92	
2,046 80																			
							5 40					2,062 20				1,762 44			

Belleville.....  
 Hamilton.....  
 Kingston.....  
 Ottawa.....  
 Toronto.....  
 Windsor.....  
 .. Ontario.

Montreal.....  
 Quebec.....  
 St. Hyacinthe.....  
 ... Three Rivers.....  
 .. Quebec.

St. John, N.B.....

Cape Breton.....  
 Halifax.....  
 Pictou.....  
 Nova Scotia.....

Charlottetown, P.E.I.....



# WEIGHTS AND MEASURES—1910-1911. No. 19 (A)—INSPECTION DIVISIONS in Account with Expenditures.

Dr.

Cr.

Amounts received from Departmental Expenditures.	DEDUCTIONS FROM SALARIES FOR			Totals.	DIVISIONS.	EXPENDITURES AUTHORIZED BY THE DEPARTMENT.									
	Superannuation.	Insurance.	Guarantee.			Salaries.	Special Assistance.	Seizures.	Rent.	Travelling Expenses.	Sundries.	Total.			
\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.
6,989 75						Winnipeg, Man.....	4,248 92	949 96					1,648 21	152 82	6,999 91
5,645 88						Calgary, Alberta.....	2,216 60	549 98					2,060 20	248 79	5,675 57
4,763 19						Regina, Sask.....	1,233 31	945 60					2,433 47	154 71	4,767 09
2,437 85						Nelson.....	1,200 00						1,185 20	56 25	2,441 45
4,518 66						Vancouver.....	3,824 76						218 45	484 99	4,528 11
6,955 91						British Columbia.....	5,024 76						1,403 65	541 15	6,969 56
1,260 85						Dawson, Yukon.....	1,000 00						258 25	6 20	1,264 45
492 41						Chief Inspector.....							443 50	48 91	492 41
2,063 73						General Contingencies.....								2,063 73	2,063 73
9 96						Metric System.....								9 96	9 96
1,237 38						Printing.....								1,237 38	1,237 38
562 23						Stationery.....								562 23	562 23
362 88						Lithographing.....								362 88	362 88
690 89						Provisional allowance.....								690 89	690 89
209 37						International Bureau of Weights and Measures.....								209 37	209 37
116,668 70		180 34	33 00	180 11		Grand totals.....	74,399 03	6,157 91					25,728 20	8,402 67	117,062 15

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

W. J. GERALD,  
Deputy Minister.

SESSIONAL PAPER No. 12

## WEIGHTS AND MEASURES, 1910-1911.

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

Balances due by sundry persons, April 1, 1910.	Totals.	Divisions.	Balances due by sundry persons, March 31, 1911.	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		73 09	73 09
		Ontario.		
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		96 17	96 17
		Quebec.		
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 16, 1911.

W. J. GERALD,  
*Deputy Minister.*

GAS INSPECTION, 1910-1911.

No. 20.—Inspection Districts in Account with Revenue.

Dr.

Cr.

BALANCES DUE BY INSPECTORS. April 1, 1910.			Stamps issued to Inspectors.			Totals.			Districts.			Deposited to the credit of the Receiver General.			BALANCES DUE BY INSPECTORS. March 31, 1911.			Totals.		
Stamps on hand.	%	cts.	Cash on hand.	%	cts.	%	cts.	%	cts.	%	cts.	%	cts.	%	cts.	%	cts.	%	cts.	%
861 50					150 00		1,011 50		Barrie				133 00		878 50		1,011 50			
681 25							681 25		Bellefleur				241 75		439 50		681 25			
1,800 75					375 00		2,255 75		Berlin				480 25		1,755 50		2,255 75			
1,147 25					225 00		1,372 25		Brockville				276 25		1,096 00		1,372 25			
197 25					75 00		272 25		Colborne				157 00		115 25		272 25			
222 75					500 00		722 75		Cornwall						722 75		722 75			
1,379 50					375 00		1,754 50		Guelph				401 00		1,353 50		1,754 50			
3,290 25					6,150 00		9,440 25		Hamilton				6,305 00		3,135 25		9,440 25			
609 00					1,175 00		1,784 00		Kingston				465 75		1,318 25		1,784 00			
269 00							269 00		Listowel				37 50		231 50		269 00			
2,186 00					6,100 00		8,286 00		London				5,538 50		2,747 50		8,286 00			
259 75							259 75		Napanee				56 50		203 25		259 75			
7,485 75					375 00		7,860 75		Ottawa				1,524 75		6,336 00		7,860 75			
545 75							545 75		Owen Sound				128 25		417 50		545 75			
478 00					887 50		1,365 50		Peterborough				259 25		1,106 25		1,365 50			
1,163 25					1,275 00		2,438 25		Sarnia				892 25		1,546 00		2,438 25			
453 75					175 00		1,428 75		Stratford				178 25		1,250 50		1,428 75			
4,683 05					22,000 00		26,683 05		Toronto			1 05	16,258 00		10,424 00		26,683 05			
1,254 25					300 00		1,554 25		Woodstock				379 75		1,183 50		1,554 25			
29,528 05					40,437 50		69,965 55		Ontario			1 05	33,704 00		36,230 50		69,965 55			
6,945 75					7,800 00		14,745 75		Montreal				11,126 75		3,619 00		14,745 75			
2,012 75					375 00		2,387 75		Quebec				535 25		1,852 50		2,387 75			
456 50					150 00		606 50		Sherbrooke				117 00		489 50		606 50			
861 25					75 00		936 25		St. Hyacinthe				55 50		880 75		936 25			
10,276 25					8,400 00		18,676 25		Quebec				11,834 50		6,841 75		18,676 25			

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587 75	.....	587 75	.....	12 00	575 75	.....	587 75
372 00	.....	1,272 00	.....	517 00	755 00	.....	1,272 00
959 75	.....	1,859 75	.....	529 00	1,330 75	.....	1,859 75
1,710 75	.....	1,910 75	.....	383 50	1,527 25	.....	1,910 75
898 75	.....	1,186 25	.....	75 50	1,110 75	.....	1,186 25
2,970 25	.....	4,720 25	.....	2,574 75	2,145 50	.....	4,720 25
592 25	.....	629 75	.....	92 50	537 25	.....	629 75
780 00	.....	1,005 00	.....	127 75	877 25	.....	1,005 00
1,986 75	.....	5,036 75	.....	2,712 00	2,324 75	.....	5,036 75
1,358 00	.....	1,858 00	.....	533 75	1,324 25	.....	1,858 00
4,717 00	.....	8,529 50	.....	3,466 00	5,063 50	.....	8,529 50
51,060 80	.....	106,848 30	.....	52,567 25	54,280 00	.....	106,848 30
.....	.....	42 00	.....	42 00	.....	.....	42 00
.....	.....	106,806 30	.....	52,525 25	.....	.....	106,806 30
Less refund, as per Statement No. 16 .. .. .							
Grand Totals.....							

INLAND REVENUE DEPARTMENT,  
OTTAWA, JUNE 16, 1911.

W. J. GERALD,  
*Deputy Minister.*

DR.

No. 21.—INSPECTION DISTRICTS IN

Balances due by Inspectors, April 1, 1910.	Amounts received from Department to meet Expenditures.	DEDUCTIONS FROM SALARIES FOR			Totals.	DISTRICTS.
		Superannuation.	Retirement.	Guarantee.		
£ cts.	£ cts.	£ cts.	£ cts.	£ cts.	£ cts.	
109 25	109 25	2 00		3 60	114 85	Barrie.....
734 78	734 78	9 00		6 48	750 26	Belleville.....
229 99	229 99			3 60	233 59	Berlin.....
151 15	151 15	2 00		3 60	156 75	Cobourg.....
32 50	32 50				32 50	Cornwall.....
323 87	323 87	6 00		3 60	333 47	Guelph.....
4,569 78	4,569 78	40 04		9 00	4,618 82	Hamilton.....
194 15	194 15			3 60	197 75	Listowel.....
2,933 01	2,933 01			5 40	2,938 41	London.....
25 90	25 90				25 90	Napanee.....
3,667 04	3,667 04			9 36	3,676 40	Ottawa.....
224 47	224 47			3 60	228 07	Owen Sound.....
151 65	151 65			3 60	155 25	Peterborough.....
200 80	200 80			3 60	204 40	Sarnia.....
205 40	205 40	4 00		3 60	213 09	Stratford.....
5,485 54	5,485 54	16 65		10 27	5,512 46	Toronto.....
211 15	211 15			1 80	212 95	Woodstock.....
19,450 43	19,450 43	79 69		74 71	19,604 83	Ontario.....
5,323 06	5,323 06			11 16	5,334 22	Montreal.....
1,723 07	1,723 07	22 04		7 20	1,752 31	Quebec.....
211 56	211 56	3 60		5 40	249 96	Sherbrooke.....
98 20	98 20			1 80	100 00	St. Hyacinthe.....
7,385 89	7,385 89	25 04		25 56	7,436 49	Quebec.....
140 70	140 70			1 80	142 50	Fredericton.....
1,423 41	1,423 41			3 60	1,427 01	St. John.....
1,564 11	1,564 11			5 40	1,569 51	New Brunswick.....
2,620 11	2,620 11	2 00		2 10	2,624 21	Halifax.....
12 88	12 88				12 88	Pictou.....
2,620 11	2,620 11	2 00		2 10	2,637 09	Nova Scotia.....
458 90	458 90			3 60	462 50	Charlottetown, P.E.I.....
2,904 45	2,904 45			5 51	2,909 96	Winnipeg, Man.....
99 40	99 40			3 60	103 00	Nanaimo.....
186 40	186 40		10 00	3 60	200 00	New Westminster.....
514 45	514 45				514 45	Vancouver.....
293 40	293 40	6 00		3 60	303 00	Victoria.....
1,093 65	1,093 65	6 00	10 00	10 80	1,120 45	British Columbia.....
200 00	200 00				200 00	General.....
196 50	196 50				196 50	Dominion Inspector.....
986 56	986 56				986 56	General Contingencies.....
730 08	730 08				730 08	Printing.....
576 54	576 54				576 54	Stationery.....
212 88	37,967 22	112 73	10 00	127 68	38,430 51	Grand Total.....

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.



SESSIONAL PAPER No. 12

TION 1910-1911.

ACCOUNT WITH EXPENDITURES.

Cr.

EXPENDITURES AUTHORIZED BY THE DEPARTMENT.					Balances due by Inspectors, March 31, 1911.	Totals.
Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.		
\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
100 00			7 60	7 25		114 85
549 96		162 50	2 55	35 25		750 26
100 00			93 70	39 89		233 59
100 00			28 35	28 40		156 75
				32 50		32 50
300 00				33 47		333 47
3,999 92		120 00	246 75	252 15		4,618 82
100 00		78 00		19 75		197 75
2,399 91			440 55	97 95		2,938 41
			25 55	35		25 90
3,249 88		300 00		126 52		3,676 40
200 00				28 07		228 07
150 00				5 25		155 25
200 00				4 40		204 40
200 00				13 00		213 00
5,439 54				72 92		5,512 46
200 00				12 95		212 95
17,289 21		660 50	845 05	810 07		19,604 83
4,899 77		240 00	35 25	159 20		5,334 22
1,499 96		150 00	3 95	98 40		1,752 31
249 96						249 96
100 00						100 00
6,749 69		390 00	39 20	257 60		7,436 49
100 00			36 10	6 40		142 50
1,300 01			72 25	54 75		1,427 01
1,400 01			108 35	61 15		1,569 51
262 09	1,494 85	501 84	227 50	137 93		2,624 21
					12 88	12 88
262 09	1,494 85	501 84	227 50	137 93	12 88	2,637 09
462 50						462 50
2,427 73	83 33			398 90		2,909 96
100 00				3 00		103 00
200 00						200 00
			11 50	502 95		514 45
300 00				3 00		303 00
600 00			11 50	508 95		1,120 45
					200 00	200 00
				196 50		196 50
				986 56		986 56
				730 08		730 08
				576 54		576 54
29,191 23	1,578 18	1,552 34	1,231 60	4,664 28	212 88	38,430 51

W. J. GERALD,  
Deputy Minister.

2 GEORGE V., A. 1912

## ELECTRIC LIGHT

DR.

No. 22.—INSPECTION DISTRICTS in

BALANCES DUE BY INSPECTORS. April 1, 1910.		Stamps issued to Inspectors.	Totals.	DISTRICTS.
Stamps on hand.	Cash on hand.			
§ cts	§ cts.	§ cts.	§ cts.	
1,967 50	.....	1,425 00	3,392 50	..... Belleville .....
3,620 50	.....	2 525 00	6,145 50	..... Hamilton.....
1,853 25	.....	3,950 00	5,803 25	..... London.....
7,226 75	.....	4,375 00	11,601 75	..... Ottawa .....
8,819 00	.....	11,500 00	20,319 00	..... Toronto.....
23,487 00	.....	23,775 00	47,262 00	..... Ontario.....
2,960 75	.....	7,725 00	10,685 75	..... Montreal.....
2,876 75	.....	750 00	3,626 75	..... Quebec.....
1,322 75	.....	475 00	1,797 75	..... Sherbrooke .....
W.T.P. 998 00	.....	350 00	1,348 00	..... St. Hyacinthe.....
996 50	.....	150 00	1,146 50	..... Three Rivers.....
9,154 75	.....	9,450 00	18,604 75	..... Quebec.....
1,761 00	.....	2,000 00	3,761 00	..... St. John, N.B.....
2,455 50	.....	2,100 00	4,555 50	..... Halifax, N.S.....
396 50	.....	675 00	1,071 50	..... Charlottetown, P.E.I.....
3,833 75	.....	6,625 00	10,458 75	..... Winnipeg, Man.....
1,350 00	.....	2,350 00	3,700 00	..... Regina, Sask.....
1,717 25	.....	4,225 00	5,942 25	..... Edmonton, Alta.....
4,357 25	.....	11,100 00	15,457 25	..... Vancouver.....
2,720 75	.....	2,075 00	4,795 75	..... Victoria.....
7,078 00	.....	13,175 00	20,253 00	..... British Columbia.....
1,350 00	.....	.....	1,350 00	..... Dawson, Yukon.....
52,583 75	.....	64,375 00	116,958 75	..... Totals.....

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

SESSIONAL PAPER No. 12

INSPECTION, 1910-1911.

Account with Revenue.

CR.

Stamps returned damaged.	Deposited to the Credit of the Receiver General.	BALANCES DUE BY INSPECTORS.		Totals.
		Stamps on hand.	Cash on hand.	
£ cts.	£ cts.	£ cts.	£ cts.	£ cts.
.....	1,490 50	1,902 00	.....	3,392 50
1,256 00	3,021 75	1,867 75	.....	5,145 50
.....	3,086 25	2,717 00	.....	5,803 25
.....	3,853 75	7,748 00	.....	11,601 75
.....	10,705 75	9,613 25	.....	20,319 00
1,256 00	22,158 00	23,848 00	.....	47,262 00
.....	7,526 50	3,159 25	.....	10,685 75
.....	624 00	3,002 75	.....	3,626 75
500 00	540 75	757 00	.....	1,797 75
.....	353 00	995 00	.....	1,348 00
.....	110 25	1,036 25	.....	1,146 50
500 00	9,154 50	8,950 25	.....	18,604 75
.....	2,066 50	1,694 50	.....	3,761 00
.....	1,905 75	2,649 75	.....	4,555 50
.....	316 50	755 00	.....	1,071 50
.....	5,960 00	4,498 75	.....	10,458 75
.....	2,556 75	1,143 25	.....	3,700 00
.....	3,985 00	1,957 25	.....	5,942 25
.....	9,361 25	6,096 00	.....	15,457 25
.....	2,118 75	2,677 00	.....	4,795 75
.....	11,480 00	8,773 00	.....	20,253 00
.....	.....	1,350 00	.....	1,350 00
1,756 00	59,583 00	55,619 75	.....	116,958 75

W. J. GERALD,  
*Deputy Minister.*

ELECTRIC LIGHT INSPECTION, 1910-1911.  
No. 23.—Inspection in Account with Expenditures.

Amounts received from Department to meet ex- penditures.	Guarantee.	Totals.	Districts	EXPENDITURES AUTHORIZED BY THE DEPARTMENT.					Totals.
				Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.	
\$ cts.	\$ cts.	\$ cts.		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
1,135 08	7 20	1,142 28	Belleville.....	416 65			507 21	218 42	1,142 28
155 61		155 61	Hamilton.....				139 50	16 31	155 61
202 50		202 50	London.....				190 15	12 35	202 50
332 35		332 35	Ottawa.....				332 35		332 35
1 00		1 00	Owen Sound.....					1 00	1 00
2,882 81		2,882 81	Toronto.....		1,349 44		1,286 85	246 52	2,882 81
857 10		857 10	Montreal.....		799 92		47 25	9 93	857 10
131 85		131 85	Quebec.....				45 25	86 60	131 85
180 95		180 95	Sherbrooke.....				161 20	19 75	180 95
450 70	1 80	452 50	St. Hyacinthe.....	300 00			149 30	3 20	452 50
668 70	1 80	670 50	Three Rivers.....	500 00		120 00	38 40	12 20	670 50
311 56		311 56	St. John.....				281 85	29 71	311 56
404 40		404 40	Halifax.....				332 45	71 95	404 40
129 60		129 60	Charlottetown.....				50 85	78 75	129 60
1,279 58		1,279 58	Winnipeg.....		916 65		304 45	58 50	1,279 58
2,436 78	3 60	2,436 78	Edmonton.....	1,400 02		315 00	658 25	63 51	2,436 78
1,387 85	1 80	1,389 65	Regina.....	600 00			232 75	56 90	1,389 65
4,133 26	9 05	4,142 31	Vancouver.....	3,629 46	500 00		309 45	203 50	4,142 31
83 20		83 20	Victoria.....				54 25	28 95	83 20
496 40	3 60	500 00	Yukon.....	500 00					500 00
875 45		875 45	Chief Electrical Engineer.....				285 32	590 13	875 45
2,703 09	3 00	2,706 09	Dominion Inspector.....	1,916 60	166 94		141 35		2,706 09
3,653 89		3,653 89	General Contingencies.....					3,653 89	3,653 89
50 92		50 92	Printing.....					50 92	50 92
194 52		194 52	Stationery.....					194 52	194 52
25,135 55	31 85	25,167 40	Totals.....	9,262 73	3,732 93	425 00	5,518 03	6,188 71	25,167 40

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

W. J. GERALD,  
*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, 1911.

Services.	Grants.	Expenditures.	Over Expenditures.	Under Expenditures.
	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Minister's salary.....	7,000 00	7,000 00		
Departmental salaries.....	104,212 50	96,663 62		7,545 88
" contingencies.....	8,000 00	6,897 34		1,102 66
Excise salaries.....	439,600 00	437,851 34		1,148 66
" contingencies.....	90,000 00	89,620 11		379 89
Duty pay at large distilleries and other factories.....	12,000 00	11,671 56		328 44
Duty pay other than special survey.....	1,500 00	1,133 33		366 67
Preventive service, Salaries and Contingencies.....	13,000 00	9,713 74		3,286 26
Tobacco stamps.....	85,000 00	71,300 92		13,699 08
Excise Commission to Customs officers.....	10,000 00	3,923 07		6,076 93
Tobacco stamps Commission.....	100 00			100 00
Technical translation.....	100 00	63 27		36 73
Provisional allowance.....	6,000 00	4,619 47		1,380 53
Methylated spirits, contingencies.....	75,000 00	74,453 73		546 27
Weights and Measures, salaries.....	76,000 00	74,399 03		1,600 97
" " contingencies.....	45,000 00	41,762 86		3,237 14
Gas and electric light salaries.....	40,000 00	38,453 96		1,546 04
" " contingencies.....	25,000 00	24,931 07		68 93
Adulteration of food, salaries and contingencies.....	30,000 00	21,267 38		8,732 62
Minor expenditures.....	500 00			500 00
Export of electric power.....	1,000 00	273 55		726 45
International Bureau of Weights and Measures.....	216 00	209 37		6 63
Proprietary or patent medicines.....	2,750 00	539 30		2,210 70
International electro-technical Commission..	250 00	244 44		5 56
	1,071,628 50	1,016,995 46		54,633 04

W. J. GERALD,  
*Deputy Minister.*

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.



Dr. No. 25.—STATEMENT showing the transactions in connection with the manufacture of Methylated Spirits for the year ended March 31, 1911. Cr.

	Amounts.	Totals.		Amounts.	Totals.
	§ cts.	§ cts.		§ cts.	§ cts.
To stock on hand March 31, 1910.....		4,226 01	By cash received on account of Methylated Spirits, &c.		
Wood Naphtha, 607·72 Std. Galls. = 1,033·15 Proof			Methylated Spirits, 113,103·96 S. Galls. = 187,868·80		
Galls. at 54c. per Std. Galls. ....	328 17		Proof Galls. :—		
Alcohol, 2,945·65 Proof Galls. at 30c.	883 69		15,911·19 Std. Galls. at 53c.	8,470 44	
Methylated Spirits, 2,465·93 Std. Galls. = 3,694·23			23,693·45 " " at 55c.	13,031 30	
Proof Galls. :—			422·97 " " at 60c.	253 77	
853·24 Std. Galls. No. 1 special at 55c.	469 28		20,403·71 " " at 63c.	12,853 96	
686·05 " " " at 65c.	445 93		41,682·35 " " at 65c.	27,093 15	
548·26 " " No. 2 at 75c.	411 19		11,290·29 " " at 75c.	8,467 49	
318·38 " " special at 65c.	206 33		Barrels, 4,000 at \$4, 167 at \$3; drums, 412 at		
Barrels, 124 at \$4, 73 at \$3.	715 00		\$10, 15 at \$12.	29,801 00	
Pyridine (Industrious alcohol) on hand	479 82		Cans, 2 at 30c., 3 at \$1·75, 1 at \$2·25, 1 at \$3·75.	11 85	
Drums, 27 at \$10, 4 at \$4.	236 00		Alcohol, 69·63 Proof Galls. at 25c., 1 barrel, \$4.	21 41	
Methylated Spirits sold and not paid up to March 31,		1,476 18		91,004 37	
1910			Less freight	4 89	
2,018·84 Std. Galls. = 3,394·77 Proof Galls. :—			Methylated Spirits sold and not paid up to March 31,		
258·36 at 53c.	136 93		1911 :—		
358·45 at 55c.	197 15		3,025·56 Proof Galls. = 1,826·92 Std. Galls. :—		
40·14 at 60c.	24 08		212·46 Std. Galls. at 53c.	112 61	
460·40 at 63c.	290 05		478 11 " " at 55c.	262 96	
766·43 at 65c.	498 18		387·21 " " at 63c.	243 93	
165·06 at 75c.	123 79		402·57 " " at 65c.	261 67	
Barrels, 29 at \$4, Drums, 9 at \$10.	206 00		346·57 " " at 75c.	259 92	
Alcohol bought and not paid up to March 31, 1911 :—			Barrels 34 at \$4, drums 4 at \$10.	176 00	
13,455·75 Proof Galls. at 20c, and 190 barrels at 84			Barrels returned and not paid up to March 31,		
Barrels returned and not paid up to March 31,		3,451 15	1911, 60 at \$4.		
1910 :—			By stock on hand at the end of the year		
69 at \$4.		276 00	Wood Naphtha, 2,234·19 Std. Galls. = 3,753·40 Proof		
Alcohol sold and not paid up to March 31, 1910 :—			Galls. at 51c.		
69·63 Proof Galls. at 25c., 1 barrel, \$4.		21 41	Alcohol, 8,322·63 at 20c.	1,139 44	
Disbursements for purchases of materials, &c. :—		70,387 04	Methylated Spirits, 1,817·24 Std. Galls. = 3,053·97	1,664 33	
Alcohol, 148,647·32 Proof Galls. :—			Proof Galls. :—		
66,019·11 at 30c.	19,805 76		1,170·63 Std. Galls. at 55c.	648 85	
46,617·56 at 25c.	11,654 41		45·45 " " at 65c.	29 59	
56,010·65 at 20c.	7,292 14		420·20 " " at 65c.	273 13	

Wood Naphtha, 85,526-27 Proof Galls.=20,748 55  
Std. Galls. ---  
4,089-93 at 51c. add \$4.38 difference on freight  
13,226-68 at 52c. . . . .  
3,798-90 at 57c. . . . .  
Head light oil, 207-39 galls. at 14 $\frac{1}{2}$ c. = \$29.53, less 6  
brls. at \$1.50, \$7.80  
Gasoline 13-53 galls. at 17 $\frac{1}{2}$ c. 45-7 at 20 $\frac{1}{2}$ c. = \$33.05,  
less 1 brls. at \$1.50. . . . .  
12 cast iron plugs. . . . .  
Harrels, 210 at \$3.35, 79 at \$4 : drums, 39 at  
\$12.367 at \$40

Loss freight and cartage.

Other expenses as follows:—

Rent.....	
Salaries (paid from Civil Govt. Vote).....	
Retirement.....	
Freight.....	
Stationery.....	
Printing.....	
Sundries including fuel, &c.....	
Profit.....	

Manufactured during the year 186,559·33 Proof Calls. =  
112,623·35 Std. Calls., Total.....

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

W. J. GERALD,  
*Deputy Minister.*

210.96	"	at 75c.	158 22
Barrels on hand, 243	at \$4.109	at \$3.	1,299 00
Drums, 4	at \$4.11	at \$10	126 00
Barrels destroyed, 63.			179 82
Pyridine on hand.			
Alcohol used in manufacture, 156,726.09	Proof Galls.		
Wood Naphtha, 32,896.02	Proof Galls. = to		
19,489.04,	Std. Galls.		
		9,066 69	
			98,370 15
2,090 24			
6,877 89			
2,165 37			
21 73			
31 75			
9 00			
20,684 01			
70,542 29			
155 25			
840 64			
4,750 00			
250 00			
2,221 61			
10 74			
8 57			
985 13			
		9,465 67	

98,370 15



APPENDIX A

STATISTICS

2 GEORGE V., A. 1912

APPENDIX A.—SPIRITS.

No. 1.—RETURN of Manufactures for

DIVISIONS.	LICENSES.		MATERIALS TAKEN FOR USE.					
	No.	Fees.	GRAIN.					
			Malt.	Indian Corn.	Rye.	Oats.	Wheat.	Barley.
		\$	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
Belleville, Ont.....	1	250	195,794	2,673,888	375,218			
Guelph ".....	1	250	273,380	3,728,120	965,060	27,800	38,640	
Hamilton ".....	1	250	110,140	1,880,860	403,905	15,540	98,355	
Perth ".....	2	500	103,652					
Prescott ".....	1	250	113,544	2,233,926	422,540	11,886		
Toronto ".....	2	500	1,147,112	15,313,353	2,569,038	270,822		
Windsor ".....	1	250	1,368,300	17,064,000	3,949,800	142,200		
Totals.....	9	2,250	3,311,922	42,894,141	8,685,561	468,248	136,995	
Joliette, Que.....	1	250	1,751,825	1,665,500	1,971,025			
Montreal ".....	1	250						
Quebec ".....	1	250	466,807	4,400,965	224,443		174,000	
St. Hyacinthe, Que....	1	250	94,825	1,335,600	127,825			
Totals.....	4	1,000	2,313,457	7,402,065	2,323,293		174,000	
Winnipeg, Man.....	1	125	15,825	156,613	6,855	280		3,600
Vancouver, B.C....	1	250	125,300	1,627,775	304,379	15,680	650,076	
Grand Totals.....	15	3,625	5,766,504	52,080,594	11,320,088	484,208	961,071	3,600

No. 2.—COMPARATIVE Statement of Manufactures for

1910.								
Ontario.....	9	2,250	5,349,714	49,740,055	9,105,991	453,215		
Quebec.....	4	1,000	2,361,170	8,099,399	2,638,116		320,789	*28,601
British Columbia.....	1	250	81,205	58,100	126,070	11,900	1,521,335	43,476
Totals.....	14	3,500	7,792,089	57,897,554	11,870,177	465,115	1,842,124	*28,601
1911.								
Ontario.....	9	2,250	3,311,922	42,894,141	8,685,561	468,248	136,995	
Quebec.....	4	1,000	2,313,457	7,402,065	2,323,293		174,000	
Manitoba.....	1	125	15,825	156,613	6,855	280		3,600
British Columbia.....	1	250	125,300	1,627,775	304,379	15,680	650,076	
Totals.....	15	3,625	5,766,504	52,080,594	11,320,088	484,208	961,071	3,600

\*Rice.

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.



## SESSIONAL PAPER No. 12

the Fiscal Year ended March 31, 1911.

Total Grain.	Molasses.	USED IN SPIRITS MANUFACTURED.		Proof Spirits Manufactured including surpluses.	Duty Collected ex-Manu- factory, on Deficiencies and Assessments.		Total Duty Collected ex-Manu- factory, including License Fees.
		Grain.	Molasses.				
Lbs.	Lbs.	Lbs.	Lbs.	Galls.	Galls.	8 cts.	8 cts.
3,244,900		3,421,300		213,335·66			250 00
3,033,000		3,061,000		306,143·72	3·42	6 50	256 50
2,508,800		2,486,400		153,107·89	88·90	168·91	418 91
103,652		96,932		5,225·77	3·35	6·43	506 43
2,781,890		2,836,620		170,744·33			250 00
19,300,325	10,414,529	19,228,325	10,414,529	1,720,945·04	5,408·07	10,275·33	10,775 33
22,524,300		22,477,500		1,335,411·74	1,554·39	2,953·34	3,203 34
55,496,867	10,414,529	55,608,077	10,414,529	3,910,914·15	7,058·13	13,410·51	15,660 51
5,388,350		5,385,950		267,641·21			250 00
8,116,850		8,116,850		510,688·75			250 00
5,266,215		5,286,715		302,434·96			250 00
1,558,250		1,558,250		89,911·83			250 00
12,212,815	8,116,850	12,230,915	8,116,850	1,170,676·75			1,060 00
183,173		175,423		9,393·21			125 00
2,723,210		2,712,010		164,148·96			250 00
70,616,065	18,531,379	70,726,425	18,531,379	5,255,133·07	7,058·13	13,410·51	17,035 51

the Fiscal years ended March 31, 1910 and 1911.

64,648,975	10,216,927	64,755,975	10,216,927	4,446,579·33	2,587·55	4,920 58	7,170 58
13,491,551	6,893,068	13,374,601	6,893,068	1,172,795·80	2,692·71	5,116 15	6,116 15
1,798,610		1,773,810		102,049·11			250 00
79,939,136	17,109,995	79,904,386	17,109,995	5,721,424·24	5,280·26	10,036 73	13,536 73
55,496,867	10,414,529	55,608,077	10,414,529	3,910,914·15	7,058·13	13,410 51	15,660 51
12,212,815	3,116,850	12,230,915	8,116,850	1,170,676·75			1,000 00
183,173		175,423		9,393·21			125 00
2,723,210		2,712,010		164,148·96			250 00
70,616,065	18,531,379	70,726,425	18,531,379	5,255,133·07	7,058·13	13,410 51	17,035 51

W. J. GERALD,  
*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.
	Gallons.	Gallons.	Gallons.	Gallons.
Belleville, Ont.....	71,877 95	213,335 66	.....	13 38
Guelph " .....	23,806 81	306,143 72	.....	27 95
Hamilton " .....	2,551 58	153,107 89	.....	60,347 82
Perth " .....	664 91	5,225 77	.....	.....
Prescott " .....	9,024 32	176,744 33	406 67	.....
Toronto " .....	103,093 44	1,720,945 04	346 10	310,764 17
Windsor " .....	53,677 07	1,335,411 74	.....	409,502 26
Totals.....	264,701 08	3,910,914 15	752 77	780,655 58
Joliette, Que.....	10,768 85	267,641 21	.....	.....
Montreal " .....	30,690 92	510,688 75	.....	.....
Quebec " .....	36,281 57	302,434 96	.....	210 50
St. Hyacinthe " .....	10,568 94	89,911 83	.....	845 55
Totals.....	88,310 28	1,170,676 75	.....	1,056 05
Winnipeg, Man.. .....	.....	9,393 21	.....	.....
Vancouver, B.C. ....	7,900 46	164,148 96	.....	107 58
Grand Totals. ....	360,911 82	5,255,133 07	752 77	781,819 21

INLAND REVENUE DEPARTMENT,

OTTAWA, June 16, 1911.

## SESSIONAL PAPER No. 12

Dominion of Canada, during the Fiscal Year ended March 31, 1911.

Received from Other Sources. Duty Paid.	Totals.	Warehoused.	Fusel Oil Written off	Deficiencies on Which Duty was Collected.	In Process, including Deficiencies. Carried for- ward.	Totals.
Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.
5,709·67	290,936·66	273,637·16	.....	.....	17,299·50	290,936·66
1,071·52	331,050·00	310,770·51	1,170·99	3·42	19,105·08	331,050·00
417·90	216,425·19	204,785·98	56·16	72·10	11,510·95	216,425·19
.....	5,890·68	4,426·72	.....	3·35	1,460·61	5,890·68
1,517·91	187,693·23	184,556·53	467·42	.....	2,669·28	187,693·23
2,104·77	2,137,258·52	1,962,059·15	7,252·79	5,408·07	162,538·51	2,137,258·52
964·44	1,799,555·51	1,753,544·72	176·40	1,554·39	44,280·00	1,799,555·51
11,786·21	4,968,809·79	4,693,780·77	9,123·76	7,041·33	258,863·93	4,968,809·79
.....	278,410·06	262,800·19	.....	.....	15,609·87	278,410·06
40·46	541,420·13	506,864·75	5,685·25	.....	23,870·13	541,420·13
.....	338,927·03	304,597·74	10,202·65	.....	24,126·64	338,927·03
955·21	102,281·53	88,482·88	179·30	.....	13,669·35	102,281·53
995·67	1,261,038·75	1,162,695·56	16,067·20	.....	82,275·99	1,261,038·75
.....	9,393·21	9,125·85	.....	.....	267·36	9,393·21
1,429·94	173,586·94	149,415·27	135·47	.....	24,036·20	173,586·94
14,211·82	6,412,828·69	6,015,017·45	23,326·43	7,041·33	365,443·48	6,412,828·69

W. J. GERALD,  
*Deputy Minister.*

## APPENDIX A.—Continued.—SPIRITS.

No. 4.—WAREHOUSE RETURN for the Fiscal Year ended March 31, 1911.

DR.

DIVISIONS.	Remaining in Warehouse from last year.	Warehoused.		Imported.		REMOVED FROM OTHER DIVISIONS.		Totals.
		Gallons.	Gallons.	Gallons.	Gallons.	Removed during year.	In Transit last year.	
Belleville, Ont.	1,395,386.35	273,637.16	.....	.....	23,325.86	9,400.12	.....	1,701,749.49
Brantford "	8,282.10	.....	.....	.....	32,637.93	121.93	.....	41,041.26
Guelph "	1,852,688.52	310,770.51	.....	.....	40,745.76	187.56	.....	2,204,392.35
Hamilton, "	812,742.23	204,785.98	.....	.....	88,552.66	2,516.15	.....	1,108,596.42
Kingston "	3,538.71	.....	.....	.....	48,381.59	.....	.....	51,920.30
London "	6,008.82	.....	.....	.....	40,543.71	137.14	.....	46,709.68
Ottawa "	31,194.54	.....	.....	.....	171,571.00	924.43	.....	203,689.97
Ottawa, Government Warehouse, Ont.	2,945.65	.....	.....	.....	162,163.07	.....	.....	165,048.72
Ottawa, Department Laboratory, Ont.	.....	.....	.....	.....	58.13	.....	.....	58.13
Perth, "	97,428.77	4,426.72	.....	.....	81,446.31	402.91	.....	183,704.74
Peterborough "	10,806.79	.....	.....	.....	29,186.23	679.14	.....	40,672.16
Port Arthur "	12,090.63	.....	.....	.....	57,033.07	1,389.95	.....	70,513.65
Prescott "	1,014,670.95	184,556.53	116,128.16	.....	887.83	.....	.....	1,316,243.47
St. Catharines "	1,140.30	.....	.....	.....	7,390.32	245.05	.....	8,775.67
Stratford "	1,707.14	.....	.....	.....	14,407.93	316.80	.....	16,431.87
Toronto "	5,512,766.16	1,962,059.15	.....	.....	409,278.62	9,002.14	.....	7,893,106.07
Windsor "	7,581,150.87	1,753,514.72	.....	.....	11,330.08	47.40	.....	9,346,073.07
Totals.	18,344,548.54	4,693,780.77	116,128.16	.....	1,218,878.83	25,390.72	.....	24,398,727.02
Joliette, Que.	262,417.83	262,800.19	.....	.....	20,304.53	.....	.....	1,010,529.55
Montreal "	781,431.45	506,864.75	*231.32	.....	963,539.45	8,122.83	.....	2,260,189.80
Quebec "	619,092.34	304,597.74	.....	.....	186,226.79	886.17	.....	1,140,803.04
St. Hyacinthe "	388,146.85	88,432.88	.....	.....	47,657.09	.....	.....	524,236.82
Sherbrooke "	7,564.66	.....	.....	.....	77,990.54	658.80	.....	121,473.21
Three Rivers "	4,311.24	.....	.....	.....	28,918.40	482.07	.....	33,711.71
Totals.	2,557,964.37	1,162,695.56	*231.32	.....	1,324,636.80	10,149.87	.....	5,090,937.13
St. John, N. B.	23,471.72	.....	.....	.....	94,518.21	585.27	.....	118,575.20

Halifax, N. S.	5,246.58	27,349.33	32,595.91
Pictou "	313.91	2,800.05	3,400.53
<b>Totals</b>			226.57
Winnipeg, Man.	5,560.49	30,209.38	35,996.44
	66,251.67	472,190.77	566,630.61
Moose Jaw, Sask.	18,418.23	69,112.72	88,211.52
	35,034.70	158,900.88	198,911.05
Calgary, Alta.			4,975.47
Vancouver, B. C.	309,749.58	143,620.66	610,677.04
Victoria "	21,350.43	88,630.25	114,914.44
<b>Totals</b>	331,070.01	232,270.91	725,591.48
Dawson, Y. T.	831.12	3,821.86	4,665.77
Sundries	8,612.54		8,612.54
<b>Grand Totals</b>	21,391,766.39	3,604,540.36	31,236,858.76

\* Seizure.



## APPENDIX A.—Continued.—SPIRITS.

No. 4.—WAREHOUSE RETURN for the Fiscal Year ended March 31, 1911—Concluded.

Cr.

DIVISIONS.	ENTERED FOR CONSUMPTION.		REMOVED IN BOND 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.				
										Gallons.	\$ cts.
Belleville Ont	72,982.95	138,674.47	227,882.24	5,884.69	13.38	8,495.35	5,121.65	2,524.43	9,769.53	1,369,105.27	1,701,749.49
Brantford "	24,732.46	47,038.54	41.76						11,207.48	5,039.56	41,041.26
Guelph "	203,489.56	390,437.24	111,236.21	1,772.34	27.95	39,572.88	1,196.20	27,713.60	24,223.80	1,817,363.61	2,204,392.35
Hamilton "	137,504.17	260,378.42	90,965.59	2,797.38	60,347.82	18,049.52	240.59	1,665.65	9,660.30	772,801.90	1,108,596.42
Kingston "	34,561.15	65,668.52	95.50				53.02			7,550.33	51,920.30
London "	39,849.42	75,714.90						15.25		6,845.01	46,709.68
Ottawa "	165,973.46	314,017.78	1,497.71				256.53		5,292.22	31,570.05	293,689.97
Ottawa, Govt. Warehouse									±156,726.09	8,322.63	165,048.72
Ottawa, Dept. Laboratory											58.13
Perth, Ont	89,132.30	169,535.36	5,663.65			887.46		26.81		87,994.52	183,704.74
Peterborough "	28,595.83	54,362.88								12,076.33	40,672.16
Port Arthur "	55,872.01	106,190.49								14,641.64	70,513.65
Prescott "	45,212.71	124,748.50	248,251.17	8,753.58		5,456.83	1,943.73	1,529.98	116,128.16	888,967.31	1,316,243.47
St. Catharines "	7,883.92	14,379.50								891.75	8,775.67
Stratford "	13,648.51	25,936.37	1,435,135.53	43,339.29	310,764.17	29,274.74	3,912.84	2,496.79	121,311.10	5,397,903.47	7,893,106.07
Toronto "	548,968.14	1,030,342.23			409,502.26	115,404.67	972.47	236,394.37	3,388.77	7,597,218.31	9,346,073.07
Windsor "	246,851.89	464,155.64	718,323.56	18,016.77							
Totals.....	1,716,378.48	3,278,180.84	2,839,082.92	80,564.05	780,655.58	217,141.45	13,755.16	272,366.88	±156,726.09	18,021,075.05	24,398,727.62
Joliette, Que			255,634.90	3,134.19		738.71				738,892.49	1,010,522.55
Montreal "	32,102.26	61,271.99	289,843.20	1,588.41		1,596.00		64.85		975,630.63	2,260,189.80
Quebec "	957,234.17	1,808,552.86				3,798.65	10,751.66			796,379.29	1,140,803.04
St. Hyacinthe "	215,869.35	410,511.74	91,216.58	7,654.81	210.50	935.60	608.97	225.19		366,369.08	524,236.82
St. Hyacinthe "	50,413.57	95,859.57	82,716.86	1,997.12	845.55					9,766.99	121,473.21
Sherbrooke "	73,810.77	154,647.13	636.24							5,260.60	33,711.71
Three Rivers "	28,451.11	54,112.67									
Totals.....	1,359,881.23	2,584,455.96	700,047.78	14,374.53	1,656.05	7,088.96	11,360.63	290.04	104,538.83	2,892,299.08	5,090,937.13



APPENDIX A.—*Continued*—SPIRITS.  
 No. 5.—COMPARATIVE STATEMENT of Warehouse Returns for the Fiscal Years ended March 31, 1910 and 1911.

PROVINCES.	Remaining in Warehouse from last Year.	Warehoused.	Imported.	RECEIVED FROM OTHER DIVISIONS.			Totals.
				Removed during Year.	In Transit last Year.	Gallons.	
1910.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	
Ontario .....	17,894,424.73	5,548,860.44	63.76	1,228,923.49	15,467.48	24,687,739.90	
Quebec.....	2,455,543.34	1,145,502.40	.....	1,125,883.60	12,613.28	4,739,572.62	
New Brunswick.....	13,747.54	.....	.....	103,038.74	366.25	117,152.53	
Nova Scotia .....	3,919.89	.....	.....	33,330.38	2,100.48	39,350.75	
Manitoba .....	63,510.86	.....	.....	450,980.27	3,311.42	517,802.55	
Saskatchewan .....	15,784.90	.....	.....	60,636.69	2,029.92	77,851.51	
Alberta.....	26,965.33	.....	.....	134,939.27	6,906.33	168,840.93	
British Columbia.....	317,758.12	113,079.77	.....	189,413.31	7,104.31	627,355.51	
Yukon Territory.....	2,591.99	.....	.....	2,563.25	.....	5,555.24	
Sundries.....	8,612.54	.....	.....	.....	.....	8,612.54	
Totals.....	20,803,289.24	6,807,412.61	63.76	3,329,169.00	49,929.47	30,989,834.08	

## SESSIONAL PAPER No. 12

1911.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.
Ontario.....	18,344,548·54	4,693,780·77	116,128·16	1,218,878·83	25,390·72	24,398,727·02	
Quebec.....	2,557,964·37	1,162,695·56	{ *231·32 35,259·21 }	1,324,636·80	10,149·87	5,090,337·13	
New Brunswick.....	23,471·72	.....	.....	94,518·21	585·27	118,575·20	
Nova Scotia.....	5,560·49	.....	.....	30,209·38	226·57	35,496·44	
Manitoba.....	66,251·67	9,125·85	.....	472,190·77	19,062·32	566,630·61	
Saskatchewan.....	18,418·23	.....	.....	69,112·72	680·57	88,211·52	
Alberta.....	35,034·70	.....	.....	158,900·88	4,975·47	198,911·05	
British Columbia.....	331,070·01	149,415·27	.....	232,270·91	12,835·29	725,591·48	
Yukon Territory.....	834·12	49·79	.....	3,821·86	.....	4,665·77	
Sundries.....	8,612·54	.....	.....	.....	.....	8,612·54	
Totals.....	21,391,766·39	{ 49·79 6,015,017·45 }	{ *231·32 151,387·37 }	3,604,540·36	73,906·08	31,226,858·76	

† Surplus in warehouse, \* Seizure.

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APPENDIX A.—*Continued*—SPIRITS.  
 No. 5.—COMPARATIVE STATEMENT of Warehouse Returns for the Fiscal Years ended March 31, 1910 and 1911—*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.				
1910.	Gallons.	\$ cts.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.
Ontario .....	1,589,435·80	3,008,401 24	2,514,365·81	47,246·63	1,166,603·82	182,378·27	9,355·68	359,032·15	{ *119,843·85 354,239·35	18,344,548·54	24,687,739·90
Quebec .....	1,277,717·04	2,419,001 84	738,626·16	23,067·39	763·47	10,774·62	528·59	74·17	130,056·81	2,557,964·37	4,739,572·62
New Brunswick .....	76,813·31	145,982 11	159·46	96·83	.....	.....	.....	12·35	10,598·86	23,471·72	117,152·53
Nova Scotia .....	31,011·38	58,965 56	2,421·89	188·75	.....	.....	.....	108·24	.....	5,560·49	39,350·75
Manitoba .....	383,420·28	728,127 32	17,276·76	1,291·15	.....	.....	.....	5·84	49,556·85	66,251·67	517,802·55
Saskatchewan .....	57,568·82	109,452 83	1,864·46	.....	.....	.....	.....	.....	.....	18,418·23	77,851·51
Alberta .....	133,674·90	254,004 22	131·33	.....	.....	.....	.....	.....	.....	35,034·70	168,840·93
British Columbia .....	222,793 34	423,318 22	54,263·13	2,015·33	1,061·30	5,256·34	1,305·56	2,641·70	6,948·80	331,070·01	627,355·51
Yukon Territory .....	4,721·12	8,970 19	.....	.....	.....	.....	.....	.....	.....	834·12	5,555·24
Sundries .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8,612·54	8,612·54
Totals .....	3,777,155·99	7,156,223 53	3,329,109·00	73,906·08	1,168,518·59	192,409 23	11,789 83	361,934·45	{ *119,843·85 557,400·67	21,391,766·39	30,989,834·08



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1911.	Gallons.	\$ cts.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.
Ontario .....	1,716,378·48	3,278,180·84	2,839,082·92	80,564·05	789,655·58	217,141·45	13,755·16	272,366·88	{ *156,726·09 300,981·36	18,021,075·03
Quebec .....	1,359,881·23	2,584,955·96	700,047·78	14,374·53	1,056·05	7,038·96	11,360·63	290·04	104,538·83	2,892,299·08
New Brunswick .....	82,458·11	156,764·78							10,802·26	25,314·83
Nova Scotia .....	29,119·12	55,378·29	604·28					101·16		6,171·88
Manitoba .....	451,290·26	857,018·91	12,302·67	1,442·26			32·11	2·91	30,779·72	70,780·68
Saskatchewan .....	67,334·93	128,020·67								20,876·59
Alberta .....	158,803·62	301,747·71								40,107·43
British Columbia .....	277,318·36	526,924·41	52,502·71		107·58	5,815·10	1,641·33	1,201·76	8,495·83	378,508·87
Yukon Territory .....	3,808·12	7,349·40								797·65
Sundries .....										8,612·54
Totals .....	4,146,452·17	7,896,340·97	3,604,540·36	96,380·84	781,819·21	230,045·51	26,789·23	273,962·75	{ *156,726·09 455,598·00	21,464,544·60

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

	1910.	1911.
Total duty collected ex-manufactory and ex-warehouse .....	\$ 7,166,260·26	\$ 7,969,751·48
License fees .....	3,500·00	3,625·00
	<u>\$ 7,169,760·26</u>	<u>\$ 7,913,376·48</u>

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.W. J. GERALD,  
*Deputy Minister.*

## APPENDIX A.—Continued—MALT.

No. 6.—RETURN of Manufactures for the Fiscal Year ended March 31, 1911.

DIVISIONS.	LICENSES.		Grain Steeped.	Grain used in Malt Manufactured.	MALT.			Total Duty Collected ex-manufactory, including License Fees.
	No.	Fees.			Manufactured.	Paid Duty.	Warehoused.	
		\$ cts.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	\$ cts.
Belleville, Ont. . .	1	50 00	145,824	145,824	111,687	.....	111,687	50 00
Brantford " ..	2	100 00	540,093	540,077	426,914	.....	426,914	100 00
Guelph " ..	5	550 00	6,850,822	6,589,639	5,271,082	.....	5,271,082	550 00
Hamilton " ..	2	350 00	4,702,560	4,534,900	3,603,690	.....	3,603,690	350 00
Kingston " ..	1	50 00	11,264	57,224	45,158	.....	45,158	50 00
London " ..	3	450 00	5,346,874	5,266,778	4,149,433	.....	4,149,433	450 00
Owen Sound, Ont	1	200 00	4,765,350	5,038,350	3,972,578	.....	3,972,578	200 00
Perth " ..	1	50 00	132,245	121,375	99,036	.....	99,036	50 00
Peterborough " ..	2	250 00	465,360	472,800	371,898	.....	371,898	250 00
Prescott " ..	3	200 00	707,296	699,686	533,880	.....	533,880	200 00
St. Catharines "	1	50 00	395,560	382,470	306,140	.....	306,140	50 00
Stratford " ..	1	200 00	8,591,550	8,573,550	6,836,820	.....	6,836,820	200 00
Toronto " ..	10	1,400 00	15,005,360	15,259,960	11,888,853	.....	11,888,853	1,400 00
Windsor " ..	1	200 00	2,419,000	2,272,500	1,824,540	.....	1,824,540	200 00
Totals .....	34	4,100 00	50,079,158	49,955,333	39,441,709	.....	39,441,709	4,100 00
Montreal, Que. . .	4	800 00	41,980,495	44,983,795	35,634,303	.....	35,634,303	800 00
Quebec " ..	1	150 00	1,225,250	1,225,751	991,213	.....	991,213	150 00
Totals . . .	5	950 00	46,205,745	46,209,546	36,625,516	.....	36,625,516	950 00
Halifax, N.S. . . .	1	150 00	78,212	118,584	91,952	.....	91,952	150 00
Winnipeg, Man. . .	4	600 00	24,254,530	23,963,650	19,614,271	.....	19,614,271	600 00
Calgary, Alta. . .	3	350 00	4,269,425	4,269,430	3,484,192	.....	3,484,192	350 00
Victoria, B.C. . .	1	50 00	1,039,077	1,029,971	828,692	.....	828,692	50 00
Grand Totals	48	6,200 00	125,926,147	125,546,514	100,086,332	.....	100,086,332	6,200 00

W. J. GERALD,  
Deputy Minister.

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

SESSIONAL PAPER No. 12

APPENDIX A.—*Continued*—MALT.

No. 7.—COMPARATIVE STATEMENT of Manufactures for the Fiscal Years ended March 31, 1910 and 1911.

PROVINCES.	LICENSES.		Grain Steeped.	Grain used in Malt Manufactured.	MALT.			Total Duty Collected ex-manufactory, including License Fees.
	No.	Fees.			Manufactured.	Paid Duty.	Warehoused.	
1910.		\$ cts.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	\$ cts.
Ontario. ....	35	4,200 00	52,121,534	52,231,025	41,349,282	.....	41,349,282	4,200 00
Quebec. ....	5	950 00	38,411,128	37,813,314	30,256,801	15,187	30,241,614	1,177 80
Nova Scotia. ....	1	150 00	518,398	507,345	402,050	.....	402,050	150 00
Manitoba. ....	3	500 00	17,370,079	17,491,995	14,255,308	.....	14,255,308	500 00
Alberta. ....	3	350 00	4,509,236	4,490,218	3,674,313	.....	3,674,313	350 00
British Columbia..	1	50 00	817,085	792,145	621,292	.....	621,292	50 00
Totals .....	48	6,200 00	113,947,451	113,386,042	90,559,046	15,187	90,543,859	6,427 80
1911.								
Ontario. ....	34	4,100 00	50,079,158	49,955,333	39,441,709	.....	39,441,709	4,100 00
Quebec. ....	5	950 00	46,205,745	46,209,546	36,625,516	.....	36,625,516	950 00
Nova Scotia. ....	1	150 00	78,212	118,584	91,952	.....	91,952	150 00
Manitoba. ....	4	600 00	24,254,530	23,963,650	19,614,271	.....	19,614,271	600 00
Alberta. ....	3	350 00	4,269,425	4,269,430	3,484,192	.....	3,484,192	350 00
British Columbia..	1	50 00	1,039,077	1,029,971	828,692	.....	828,692	50 00
Totals .....	48	6,200 00	125,926,147	125,546,514	100,086,332	.....	100,086,332	6,200 00

W. J. GERALD,  
*Deputy Minister.*INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

APPENDIX A.—Continued—MALT.

Dr.

No. 8.—WAREHOUSE RETURN for

Remain- ing in Ware- house 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.		
97,131	111,687	1,670	180,000	40,000	.. .. .	430,488	Belleville,	Ont. ....
255,062	426,914	7,432	132,518	.. .. .	3,000	824,926	Brantford	" .....
2,842,690	5,271,082	56,852	2,424,000	45,000	.. .. .	10,639,624	Guelph	" .....
2,095,962	3,603,690	36,946	841,800	.. .. .	.. .. .	6,578,398	Hamilton	" .....
289,310	45,158	2,640	160,000	.. .. .	.. .. .	497,108	Kingston	" .....
2,498,824	4,149,433	39,556	406,200	.. .. .	1,551	7,095,564	London	" .....
90,252	.. .. .	4,800	1,233,600	.. .. .	.. .. .	1,328,652	Ottawa	" .....
2,363,500	3,972,578	45,353	514,400	16,700	.. .. .	6,852,531	Owen Sound	" .....
25,241	99,036	.. .. .	1,643,960	80,000	2,640	1,850,877	Perth	" .....
348,885	371,898	17,773	188,500	.. .. .	.. .. .	927,056	Peterborough	" .....
19,600	.. .. .	.. .. .	1,090,000	40,000	2,630	1,151,630	Port Arthur	" .....
408,296	533,880	6,813	1,198,260	.. .. .	.. .. .	2,147,189	Prescott	" .....
139,110	306,140	3,930	947,878	40,950	.. .. .	1,438,008	St. Catharines	" .....
2,103,322	6,836,820	91,280	72,000	.. .. .	.. .. .	9,103,422	Stratford	" .....
8,555,846	11,888,853	218,325	4,845,000	.. .. .	36,000	25,544,024	Toronto	" .....
2,046,560	1,824,540	45,656	797,480	.. .. .	95,210	4,809,446	Windsor	" .....
24,119,591	39,441,709	579,026	16,675,536	262,650	140,431	81,218,943	Totals	.. .. .
41,398	.. .. .	14,983	1,680,880	40,000	.. .. .	1,777,261	Joliette,	Que. ....
7,843,578	35,634,303	95,290	60,000	.. .. .	31,920	43,665,091	Montreal	" .....
89,029	991,213	.. .. .	1,738,003	114,000	.. .. .	2,932,245	Quebec	" .....
15,000	.. .. .	.. .. .	85,000	.. .. .	.. .. .	100,000	St. Hyacinthe	" .....
20,234	.. .. .	.. .. .	880,000	.. .. .	.. .. .	900,234	Sherbrooke	" .....
8,009,239	36,625,516	110,273	4,443,883	154,000	31,920	49,374,831	Totals	.. .. .
.. .. .	.. .. .	.. .. .	1,236,000	40,000	.. .. .	1,276,000	St. John, N.B.	.. .. .
199,469	91,952	2,438	1,932,000	.. .. .	.. .. .	2,225,859	Halifax, N.S.	.. .. .
2,062,788	19,614,271	112,398	1,534,000	.. .. .	95,418	23,418,875	Winnipeg, Man.	.. .. .
11,500	.. .. .	1,349	1,040,000	.. .. .	146,560	1,199,409	Moose Jaw, Sask	.. .. .
1,429,597	3,484,192	20,998	1,714,000	40,000	375,898	7,064,685	Calgary, Alta.	.. .. .
178,041	.. .. .	.. .. .	3,961,948	170,000	1,845,854	6,155,843	Vancouver, B.C.	.. .. .
87,082	828,692	.. .. .	1,818,350	160,000	371,116	3,265,240	Victoria, B.C.	.. .. .
265,123	828,692	.. .. .	5,780,298	330,000	2,216,970	9,421,083	Totals	.. .. .
69,483	.. .. .	12,553	.. .. .	.. .. .	66,640	148,676	Dawson, Y.T.	.. .. .
36,166,790	100,086,332	839,035	34,355,717	826,650	3,073,837	175,348,361	Grand Totals	.. .. .

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the Fiscal Year ended March 31, 1911.

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.
371,201	5,568 02	.....	.....	.....	.....	.....	59,287	430,488
650,122	9,781 83	.....	.....	.....	.....	.....	112,660	824,926
6,472,720	97,090 80	929,254	76,000	.....	.....	62,144	3,161,650	10,639,624
4,381,552	65,723 28	275,200	.....	.....	.....	.....	1,921,646	6,578,398
433,960	6,509 40	.....	.....	.....	.....	.....	63,148	497,108
4,414,777	66,222 13	91,480	.....	116,000	.....	.....	2,473,307	7,095,564
1,273,152	19,097 28	.....	.....	.....	.....	.....	55,500	1,328,652
793,569	11,903 54	4,021,442	80,000	40,000	.....	.....	1,917,520	6,852,531
1,733,640	26,004 60	.....	.....	.....	103,652	5,241	8,344	1,850,877
761,186	11,417 80	.....	.....	.....	.....	.....	165,870	927,056
1,149,600	17,244 00	.....	.....	.....	.....	.....	2,030	1,151,630
1,849,975	27,749 65	.....	.....	.....	.....	.....	297,214	2,147,189
1,318,188	19,772 82	.....	.....	.....	.....	.....	119,820	1,438,008
740,460	11,106 90	6,441,000	80,000	.....	.....	.....	1,841,962	9,103,422
18,375,412	275,991 18	400,000	40,000	.....	.....	.....	6,728,612	25,544,024
3,146,256	47,193 84	.....	.....	.....	590,393	.....	1,072,797	4,809,446
47,865,770	718,377 07	12,158,376	276,000	156,000	694,045	67,385	20,001,367	81,218,943
.....	.....	.....	.....	.....	1,751,825	.....	25,436	1,777,261
21,814,612	327,219 18	12,318,783	134,000	148,000	.....	.....	9,249,696	43,665,091
2,883,216	43,248 09	40,000	.....	.....	.....	9,029	.....	2,932,245
100,000	1,500 00	.....	.....	.....	.....	.....	.....	100,000
890,634	13,359 51	.....	.....	.....	.....	.....	9,600	900,234
25,688,462	385,326 78	12,358,783	134,000	148,000	1,751,825	9,029	9,284,732	49,374,831
1,276,000	19,140 00	.....	.....	.....	.....	.....	.....	1,276,000
2,090,921	31,363 82	.....	.....	23,500	.....	.....	111,438	2,225,859
8,681,488	130,222 31	9,608,610	571,000	224,000	.....	4,100	4,329,677	23,418,875
1,199,409	17,991 13	.....	.....	.....	.....	.....	.....	1,199,409
5,741,480	86,122 19	.....	.....	.....	.....	.....	1,323,205	7,064,685
5,959,809	89,397 17	.....	.....	.....	.....	.....	196,034	6,155,843
2,927,435	43,911 55	229,948	48,311	.....	.....	.....	59,546	3,265,240
8,887,244	133,308 72	229,948	48,311	.....	.....	.....	255,580	9,421,083
94,656	1,419 87	.....	.....	.....	.....	.....	54,020	148,676
101,525,430	1,523,271 89	34,355,717	1,029,311	551,500	2,445,870	80,514	35,360,019	175,348,361

W. J. GERALD,  
Deputy Minister.



APPENDIX A.—*Continued.*—MALT.

DR.

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

Remaining in Warehouse from last year.	Warehoused	Increases.	RECEIVED FROM OTHER DIVISIONS.		Imported.	Totals.	Provinces.
			Removed during year.	In Transit last year.			
Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	1910.
27,897,351	41,349,282	634,683	11,308,025	293,000	37,267	81,519,608	Ontario.....
8,789,283	30,241,614	186,797	6,128,517	129,000	6,720	45,481,931	Quebec.....
.....	.....	.....	1,320,000	40,000	.....	1,360,000	New Brunswick..
291,232	402,050	2,582	1,999,655	.....	5,813	2,701,332	Nova Scotia.....
3,267,258	14,255,308	87,314	54,000	.....	75,009	17,738,889	Manitoba.....
.....	.....	1,390	680,000	40,000	364,354	1,085,744	Saskatchewan....
1,267,510	3,674,313	16,916	1,104,300	.....	362,250	6,425,369	Alberta.....
300,059	621,292	445	5,067,713	69,090	1,356,865	7,406,374	British Columbia
147,345	.....	.....	.....	.....	29,250	176,595	Yukon Territory.
41,960,038	90,543,859	930,207	27,662,210	562,000	2,237,528	163,895,842	.....Totals.....
							1911.
24,119,591	39,441,709	579,026	16,675,536	262,650	140,431	81,218,943	Ontario.....
8,009,239	36,625,516	110,273	4,443,883	154,000	31,920	49,374,831	Quebec.....
.....	.....	.....	1,236,000	40,000	.....	1,276,000	New Brunswick..
199,469	91,952	2,438	1,932,000	.....	.....	2,225,859	Nova Scotia.....
2,062,788	19,614,271	112,398	1,534,000	.....	95,418	23,418,875	Manitoba.....
11,500	.....	1,349	1,040,000	.....	146,560	1,199,409	Saskatchewan....
1,429,597	3,484,192	20,998	1,714,000	40,000	375,898	7,064,685	Alberta.....
265,123	828,692	.....	5,780,298	330,000	2,216,970	9,421,683	British Columbia
69,483	.....	12,553	.....	.....	66,640	148,676	Yukon Territory.
36,166,790	100,086,332	839,035	34,355,717	826,650	3,073,837	175,348,361	.....Totals.....

INLAND REVENUE DEPARTMENT,  
OTTAWA, JUNE 16, 1911.

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Fiscal Years ended March 31, 1910 and 1911.

CR.

Entered for Consumption.			REMOVED TO OTHER DIVISIONS.		Exported.	Free.	Written Off.	Remain- ing in Ware- house.	Totals.
			Warehoused in Divisions to which Removed.	In Transit.					
Lbs.	\$	cts.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
44,841,071	672,928	39	10,160,710	242,650	188,000	1,960,968	6,618	24,119,591	81,519,608
26,139,830	392,097	37	9,369,787	174,000	108,000	1,681,075	.....	8,009,239	45,481,931
1,360,000	20,400	00	.....	.....	.....	.....	.....	.....	1,360,000
2,501,863	37,527	98	.....	.....	.....	.....	.....	199,469	2,701,332
7,001,450	105,021	76	8,131,713	410,000	129,600	.....	3,338	2,062,788	17,738,889
1,074,244	16,113	66	.....	.....	.....	.....	.....	11,500	1,085,744
4,995,772	74,936	52	.....	.....	.....	.....	.....	1,429,597	6,425,369
7,129,605	106,944	11	.....	.....	.....	.....	11,646	265,123	7,406,374
107,112	1,606	73	.....	.....	.....	.....	.....	69,483	176,595
95,150,947	1,427,576	52	27,662,210	826,650	425,600	3,642,043	21,602	36,166,790	163,895,842
47,865,770	718,377	07	12,158,376	276,000	156,000	691,045	67,385	20,001,367	81,218,943
25,688,462	385,326	78	12,358,783	134,000	148,000	1,751,825	9,029	9,284,732	49,374,831
1,276,000	19,140	00	.....	.....	.....	.....	.....	.....	1,276,000
2,090,921	31,363	82	.....	.....	23,500	.....	.....	111,438	2,225,859
8,681,488	130,222	31	9,608,610	571,000	224,000	.....	4,100	4,329,677	23,418,875
1,199,409	17,991	13	.....	.....	.....	.....	.....	.....	1,199,409
5,741,480	86,122	19	.....	.....	.....	.....	.....	1,323,205	7,064,685
8,887,244	133,308	72	229,948	48,311	.....	.....	.....	255,580	9,421,083
94,656	1,419	87	.....	.....	.....	.....	.....	54,020	148,676
101,525,430	1,523,271	89	34,355,717	1,029,311	551,500	2,445,870	80,514	35,360,019	175,348,361

	1910.	1911.
Total duty collected ex-manufactory and ex-warehouse. ....	\$1,427,804 32	\$1,523,271 89
License fees. ....	6,200 00	6,200 00
	\$1,434,004 32	\$1,529,471 89

W. J. GERALD,  
Deputy Minister.

2 GEORGE V., A. 1912

## APPENDIX A.—Continued.—MALT LIQUOR.

No. 10.—RETURN of Manufactures for the Fiscal Year ended March 31, 1911.

DIVISIONS.	LICENSES.		Malt Used.	Other commodities used.	Malt Liquor manufactured.	Malt Liquor Exported.	Total Duty Collected, including License Fees.
	No.	Fees.					
		\$ cts.	Lbs.	Lbs.	Galls.	* Galls.	\$ cts.
Belleville, Ont.....	1	50 00	190,666	.....	89,647	.....	50 00
Brantford ".....	3	150 00	652,322	.....	272,707	.....	150 00
Guelph ".....	6	300 00	6,075,291	.....	2,833,850	.....	300 00
Hamilton ".....	2	100 00	4,288,954	.....	2,090,190	.....	100 00
Kingston ".....	2	100 00	438,645	.....	153,825	.....	100 00
London ".....	6	300 00	4,311,919	100	1,783,421	1,585	308 30
Ottawa ".....	3	150 00	1,674,408	.....	805,600	.....	150 00
Owen Sound ".....	5	250 00	716,071	90	299,350	.....	252 00
Perth ".....	2	100 00	1,774,480	.....	862,968	.....	100 00
Peterborough ".....	3	150 00	764,063	.....	284,606	.....	150 00
Port Arthur ".....	2	100 00	1,138,958	.....	511,600	.....	100 00
Prescott ".....	3	150 00	1,917,117	.....	789,455	.....	150 00
St. Catharines ".....	2	100 00	1,318,950	.....	554,600	.....	100 00
Stratford ".....	3	150 00	490,216	.....	237,350	.....	150 00
Toronto ".....	13	700 00	17,055,869	.....	7,512,730	.....	700 00
Windsor ".....	2	100 00	2,041,820	.....	973,007	.....	100 00
Totals .....	58	2,950 00	44,849,749	190	20,054,906	1,585	2,960 30
Montreal, Que. ....	6	300 00	19,407,517	65,950	8,316,732	.....	2,925 77
Quebec ".....	4	200 00	4,107,631	8,521	1,654,623	.....	405 80
Sherbrooke ".....	1	50 00	893,095	.....	459,004	.....	50 00
Totals .....	11	550 00	24,408,243	74,471	10,431,359	.....	3,381 57
St. John, N.B. ....	2	100 00	1,277,816	.....	484,986	.....	100 00
Halifax, N. S. ....	3	150 00	2,089,501	687	757,920	.....	162 00
Winnipeg, Man. ....	6	300 00	8,275,370	1,343	3,549,234	.....	372 80
Moose Jaw, Sask. ....	4	200 00	1,190,720	30,200	557,587	.....	3,881 20
Calgary, Alta. ....	5	250 00	5,531,141	104,800	2,465,618	.....	15,165 30
Vancouver, B.C. ....	23	1,125 00	5,844,870	232,256	2,361,715	.....	22,609 60
Victoria ".....	7	350 00	2,824,305	45,000	1,053,572	.....	4,160 24
Totals.....	30	1,475 00	8,669,175	277,256	3,415,287	.....	26,769 84
Dawson, Y. T. ....	2	*100 00	94,656	.....	36,521	.....	100 00
Grand Totals. ...	121	6,075 00	96,386,371	488,947	41,752,448	1,585	52,893 01

\* Includes License fee for 1911-12.

W. J. GERALD,  
Deputy Minister.INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

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## APPENDIX A.—Continued—MALT LIQUOR.

No. 11.—COMPARATIVE Statement of Manufactures for the Fiscal Years ended March 31, 1910 and 1911.

PROVINCES.	LICENSES.		Malt used.	Other Commodities used.	Malt Liquor manufactured.	Malt Liquor exported.	Total Duty collected, ex-manu- factory including License Fees.	
	No.	Fees.						
1910.		\$ cts.	Lbs.	Lbs.	Galls.	Galls.	\$ cts.	
Ontario.....	61	3,025 00	41,339,422	.. .. .	18,358,387	3,303	3,025 00	
Quebec.....	16	800 00	23,830,028	63,400	10,390,828	.....	3,239 90	
New Brunswick.....	2	100 00	1,373,186	.....	533,903	.....	100 00	
Nova Scotia.....	3	150 00	2,510,347	150	839,583	.....	153 30	
Manitoba.....	7	350 00	6,659,009	8,926	2,992,922	.....	935 90	
Saskatchewan.....	4	200 00	1,061,682	800	486,654	.....	303 50	
Alberta.....	5	250 00	4,893,984	27,350	2,157,195	.....	2,234 00	
British Columbia.....	32	1,550 00	7,223,906	170,589	2,749,299	.....	17,272 29	
Yukon Territory.....	1	50 00	80,077	.....	29,430	.....	50 00	
Totals.....	131	6,475 00	88,971,641	271,215	38,558,201	3,303	27,313 89	
1911.								
Ontario.....	58	2,950 00	44,849,749	190	20,054,906	1,585	2,960 30	
Quebec.....	11	550 00	24,408,243	74,471	10,430,359	.....	3,381 57	
New Brunswick.....	2	100 00	1,277,816	.....	484,986	.....	100 00	
Nova Scotia.....	3	150 00	2,089,501	687	757,920	.....	162 00	
Manitoba.....	6	300 00	8,275,370	1,343	3,549,234	.....	372 80	
Saskatchewan.....	4	200 00	1,190,720	30,200	557,587	.....	3,881 20	
Alberta.....	5	250 00	5,531,141	104,800	2,465,648	.....	15,165 30	
British Columbia.....	30	1,475 00	8,669,175	277,256	3,415,287	.....	26,769 84	
Yukon Territory.....	2	100 00	94,656	.....	36,521	.....	100 00	
Totals.....	121	6,075 00	96,386,371	488,947	41,752,448	1,585	52,893 01	

	1910.	1911.
	Galls.	Galls.
Exported.....	3,303	1,585

W. J. GERALD,

*Deputy Minister.*INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

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.		
				Manufac- tured.	Paid Duty.	Ware- housed.
		\$ cts.	Lbs.	Lbs.	Lbs.	Lbs.
Hamilton, Ont.....	1	50 00	1,308,451½	1,234,160½	488,521	745,639½
Toronto " .....	4	200 00	239,025	241,363	224,808	16,555
Windsor " .....	4	200 00	228,475	235,644	235,644	.....
Totals.....	9	450 00	1,775,951½	1,711,167½	948,973	762,194½
Joliette, Que.....	8	400 00	106,916½	116,898½	116,316½	582
Montreal " .....	29	1,400 00	10,489,907	9,666,983	3,408,935	6,258,048
Quebec " .....	10	425 00	2,303,861	2,263,546½	2,260,036½	3,510
St. Hyacinthe " .....	1	50 00	622	645	645	.....
Sherbrooke " .....	1	50 00	3,953,693½	4,177,459½	3,992,305	185,151½
Three Rivers " .....	2	100 00	34,586	34,628	34,628	.....
Totals.....	51	2,425 00	16,889,586	16,260,160½	9,812,866	6,447,294½
Pictou, N. S. . . . .	1	50 00	11,656	12,114 <sup>9</sup> / <sub>10</sub>	12,114 <sup>9</sup> / <sub>10</sub>	.....
Charlottetown, P.E.I. . . . .	3	150 00	206,122	223,020	223,020	... ..
Vancouver, B.C.....	2	50 00	2,222	2,222	2,222	.....
Grand Totals . . . . .	66	3,125 00	18,885,537½	18,268,684 <sup>9</sup> / <sub>10</sub>	10,999,195 <sup>9</sup> / <sub>10</sub>	7,209,489

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.



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the Fiscal Year ended March 31, 1910.

CIGARETTES. At \$2.40 per M.			CIGARETTES. At \$7.00 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.	Manu- factured.	Paid Duty	
No.	No.	No.	No.	No.	No.	Lbs.	Lbs.	\$ cts.
48,529,500	48,529,500	.....	.....	.....	.....	.....	.....	140,946 85
.....	.....	.....	.....	.....	.....	.....	.....	11,440 40
.....	.....	.....	.....	.....	.....	.....	.....	11,982 20
48,529,500	48,529,500	.....	.....	.....	.....	.....	.....	164,369 45
.....	.....	.....	.....	.....	.....	.....	.....	6,215 83
535,164,870	517,488,970	17,675,900	2,138,850	2,136,000	2,850	328,515	328,515	1,445,198 05
2,243,400	1,050,700	1,192,700	.....	.....	.....	54,453	54,453	118,671 24
.....	.....	.....	.....	.....	.....	.....	.....	82 25
.....	.....	.....	.....	.....	.....	.....	.....	199,665 25
.....	.....	.....	.....	.....	.....	.....	.....	1,831 40
537,408,270	518,539,670	18,868,600	2,138,850	2,136,000	2,850	382,968	382,968	1,771,664 02
.....	.....	.....	.....	.....	.....	.....	.....	655 76
.....	.....	.....	.....	.....	.....	.....	.....	11,301 00
.....	.....	.....	.....	.....	.....	.....	.....	161 10
585,937,770	567,069,170	18,868,600	2,138,850	2,136,000	2,850	382,968	382,968	1,948,151 33

W. J. GERALD,  
*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.
1910.		\$ cts.	Lbs.	Lbs.	Lbs.	\$ cts.
Ontario.....	8	400 00	1,601,649	1,562,667 $\frac{1}{2}$	787,033	775,634 $\frac{1}{2}$
Quebec.....	49	2,425 00	16,244,136 $\frac{1}{2}$	16,011,864 $\frac{1}{2}$	9,162,041 $\frac{1}{2}$	6,849,820
Nova Scotia.....	1	50 00	10,623 $\frac{1}{2}$	10,737 $\frac{1}{10}$	10,737 $\frac{1}{10}$	.....
Prince Edward Island.....	12	100 00	205,398	227,493	226,602	891
British Columbia.....	2	100 00	1,293	1,014	1,014	.....
Totals.....	62	3,075 00	18,063,100	17,813,776 $\frac{1}{10}$	10,187,430 $\frac{6}{10}$	7,626,345 $\frac{1}{2}$
1911.						
Ontario.....	9	450 00	1,775,951 $\frac{1}{2}$	1,711,167 $\frac{1}{2}$	948,973	762,194 $\frac{1}{2}$
Quebec.....	51	2,425 00	16,889,586	16,260,160 $\frac{1}{2}$	9,812,866	6,447,294 $\frac{1}{2}$
Nova Scotia.....	1	50 00	11,656	12,114 $\frac{9}{10}$	12,114 $\frac{9}{10}$	.....
Prince Edward Island.....	3	150 00	206,122	223,020	223,020	.....
British Columbia.....	2	50 00	2,222	2,222	2,222	.....
Totals.....	66	3,125 00	18,885,537 $\frac{1}{2}$	18,208,634 $\frac{9}{10}$	10,999,195 $\frac{9}{10}$	7,209,489

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

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the Fiscal Years ended March 31, 1910 and 1911.

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.	Manu- factured.	Paid Duty.	
No.	No.	No.	No.	No.	No.	Lbs.	Lbs.	\$ cts.
31,172,850	31,171,850	1,000	.....	.....	.....	.....	.....	114,564 09
418,636,988	407,605,188	11,031,800	2,092,650	2,049,700	42,950	292,223	292,223	1,467,738 75
.....	.....	.....	.....	.....	.....	.....	.....	586 87
21,200	21,200	.....	.....	.....	.....	400	400	11,430 10
449,831,038	438,798,233	11,032,800	2,092,650	2,049,700	42,950	292,623	292,623	1,594,541 39
48,529,500	48,529,500	.....	.....	.....	.....	.....	.....	164,369 45
537,408,270	518,534,670	18,868,600	2,138,850	2,136,000	2,850	382,968	382,968	1,771,664 02
.....	.....	.....	.....	.....	.....	.....	.....	655 76
.....	.....	.....	.....	.....	.....	.....	.....	11,301 00
.....	.....	.....	.....	.....	.....	.....	.....	161 10
585,937,770	567,069,170	18,868,600	2,138,850	2,136,000	2,850	382,968	382,968	1,948,151 33

W. J. GERALD,  
*Deputy Minister.*

APPENDIX A.—Continued.—TOBACCO. MANUFACTURED BEFORE JUNE

Dr.

No. 14.—WAREHOUSE RETURN for

REMAINING IN WAREHOUSE FROM LAST YEAR.			TOTALS.			DIVISIONS.
Tobacco.	Cigarettes.	Combination Tobacco.	Tobacco.	Cigarettes.	Combination Tobacco.	
Lbs.	No.	Lbs.	Lbs.	No.	Lbs.	
1,043			1,043			Hamilton, Ont.....
		1,595			1,595	Montreal, Que.....
	112,800			112,800		Quebec ".....
	112,800	1,595		112,800	1,595	Totals.....
461			461			St. John, N. B.....
144			144			Charlottetown, P.E.I..
774½			774½			Vancouver, B.C.....
4,900½			4,900½			Victoria ".....
5,675			5,675			Totals.....
19,719½			19,719½			Sundries.....
27,042½	112,800	1,595	27,042½	112,800	1,595	Grand Totals.....

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

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the Fiscal Year ended March 31, 1911.

CR.

ENTERED FOR CONSUMPTION.		SHIPS' STORES.	WRITTEN OFF.	TAKEN FOR REWORKING.	REMAINING IN WAREHOUSE.		TOTALS.		
Tobacco, at 25c. per lb.	Duty.	Tobacco.	Tobacco.	Combination Tobacco.	Tobacco.	Cigarettes.	Tobacco.	Cigarettes.	Combination Tobacco.
Lbs.	\$ cts.	Lbs.	Lbs.	Lbs.	Lbs.	No.	Lbs.	No.	Lbs.
643	160 75	.....	400	.....	.....	.....	1,043	.....	...
.....	.....	.....	.....	1,595	.....	112,800	.....	112,800	1,595
.....	.....	.....	.....	1,595	.....	112,800	.....	112,800	1,595
.....	.....	.....	.....	.....	461	.....	461	.....	.....
.....	.....	.....	144	.....	.....	.....	144	.....	.....
448	112 00	105	774½	.....	4,347½	.....	774½	.....	.....
448	112 00	105	774½	.....	4,347½	.....	4,900½	.....	.....
.....	.....	.....	.....	.....	19,719½	.....	19,719½	.....	.....
1,091	272 75	105	1,318½	1,595	24 528	112,800	27,042½	112,800	1,595

W. J. GERALD,  
Deputy Minister.





SESSIONAL PAPER No. 12

## APPENDIX A.—Continued.—TOBACCO —Continued.

No. 15.—COMPARATIVE STATEMENT of Warehouse Returns, &amp;c.—Concluded.

Cr.

Provinces.	REMOVED IN BOND TO OTHER DIVISIONS	EXPORTED	SHIPS' STORES.	WRITTEN OFF.	TAKEN FOR REWORKING.		REMAINING IN WAREHOUSE.			TOTALS.		
	Cigarettes.	Tobacco.	Tobacco.	Tobacco.	Cigarettes.	Combination Tobacco.	Tobacco.	Cigarettes.	Combination Tobacco.	Tobacco.	Cigarettes.	Combination Tobacco.
1910.	No.	Lbs.	Lbs.	Lbs.	No.	Lbs.	Lbs.	No.	Lbs.	Lbs.	No.	Lbs.
Ontario.....	.....	448	.....	.....	10,000	16,365½	1,043	112,800	1,595	12,135	122,800	19,153½
Quebec.....	.....	.....	.....	.....	.....	.....	461	.....	.....	504	.....	.....
New Brunswick.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	461	.....	.....
Nova Scotia.....	10,000	.....	.....	.....	.....	.....	.....	.....	.....	136	10,000	.....
Prince Edward Island.....	.....	.....	.....	.....	.....	.....	144	.....	.....	228	.....	.....
Manitoba.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	9,384	.....	.....
British Columbia.....	.....	.....	315	.....	.....	.....	5,675	.....	.....	16,872½	.....	.....
Yukon Territory.....	.....	.....	.....	.....	.....	.....	19,719½	.....	.....	625	.....	.....
Sundries.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	19,719½	.....	.....
Totals.....	10,000	448	315	.....	10,000	16,365½	27,042½	112,800	1,595	59,965	132,800	19,153½
1911.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ontario.....	.....	.....	.....	400	.....	1,595	.....	112,800	.....	1,043	112,800	1,595
Quebec.....	.....	.....	.....	.....	.....	.....	461	.....	.....	461	.....	.....
New Brunswick.....	.....	.....	.....	144	.....	.....	.....	.....	.....	144	.....	.....
Prince Edward Island.....	.....	.....	.....	77½	.....	.....	4,347½	.....	.....	5,675	.....	.....
British Columbia.....	.....	.....	105	.....	.....	.....	19,719½	.....	.....	19,719½	.....	.....
Sundries.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals.....	.....	.....	105	1,318½	.....	1,545	24,528	112,800	.....	27,042½	112,800	1,595

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.W. J. GERALD,  
Deputy Minister.

APPENDIX A—*Continued*—TOBACCO—UNDER

DR.

No. 16.—WAREHOUSE RETURN for the

DIVISIONS.	REMAINING IN WAREHOUSE FROM LAST YEAR.		WAREHOUSED.		
	Tobacco.	Cigarettes.	Tobacco.	Cigarettes.	Overweight Cigarettes.
	Lbs.	No.	Lbs.	No.	No.
Belleville, Ont.....	290,286		745,639½		
Hamilton ".....					
Owen Sound ".....					
Perth ".....	534				
Stratford ".....	3,822		16,555		
Toronto ".....					
Totals.....	294,642		762,194½		
Joliette, Que.....			582		
Montreal ".....	831,429	1,279,150	6,258,048	17,675,900	2,850
Quebec ".....	23,435	402,250	3,510	1,192,700	
Sherbrooke ".....	38,843		185,154½		
Totals.....	893,707	1,681,400	6,447,294½	18,868,600	2,850
St. John, N.B.....	1,020				
Halifax, N.S.....	530				
Pictou ".....					
Totals.....	530				
Charlottetown, P.E.I.....	1,425				
Winnipeg, Man.....					
Vancouver, B.C.....	4,068				
Victoria ".....	1,420				
Totals.....	5,488				
Grand Totals.....	1,196,812	1,681,400	7,209,489	18,878,600	2,850

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

SESSIONAL PAPER No. 12

## AMENDED RATES OF DUTY, JUNE 1, 1908.

Fiscal Year ended March 31, 1911.

RECEIVED FROM OTHER DIVISIONS.		TOTALS.			ENTERED FOR CONSUMPTION.		Duty.
Tobacco.		Tobacco.	Cigarettes.	Overweight Cigarettes.	Tobacco at 5c. per lb.	Cigarettes at \$2.40 per M.	
Removed during the year.	In Transit last year.						
Lbs.	Lbs.	Lbs.	No.	No.	Lbs.	No.	8 cts.
980	1,115	2,095			2,095		104 75
		1,035,925½			718,036		35,901 81
39,250		39,250			39,250		1,962 50
26,808		26,808			26,808		1,340 40
32,568	1,068	34,170			34,170		1,708 50
		20,377			9,549		477 45
99,606	2,183	1,158,625½			829,908		41,495 41
		582			582		29 10
		7,089,477	18,955,050	2,850	6,187,941	15,639,800	346,932 60
		26,945	1,594,950		881	1,090,400	2,661 01
8,920		232,917½			188,756		9,437 80
8,920		7,349,921½	20,550,000	2,850	6,378,160	16,730,200	359,060 54
4,036		5,056			5,056		252 80
24,333	1,490	26,353			24,903		1,245 15
2,100		2,100			2,100		105 00
26,433	1,490	28,453			27,003		1,350 15
		1,425			1,425		71 25
11,348		11,348			11,348		567 40
68,808	2,900	75,776			72,296		3,614 80
179,692	21,528	202,640			175,690		8,784 50
243,500	24,428	278,416			247,986		12,399 30
398,843	28,101	8,833,245	20,553,000	2,850	7,500,886	16,730,200	415,196 85

W. J. GERALD,  
Deputy Minister.

2 GEORGE V., A. 1912

APPENDIX A.—*Continued*—TOBACCO—UNDER

No. 16.—WAREHOUSE RETURN for the

DIVISIONS.		REMOVED TO OTHER DIVISIONS.		EXPORTED.	
		Tobacco.		Tobacco.	Cigarettes.
		Warehoused in Divisions to which removed.	In transit.		
		Lbs.	Lbs.	Lbs.	No.
Belleville, Ont.....					
Hamilton ".....				1,298½	
Owen Sound ".....					
Perth ".....					
Stratford ".....					
Toronto ".....					
Totals.....				1,298½	
Joliette, Que.....					
Montreal ".....		374,187	23,419	1,801½	4,000
Quebec ".....				100	
Sherbrooke ".....				33,859	
Totals.....		374,187	23,419	35,760½	4,000
St. John, N.B. ....					
Halifax, N.S.....					
Pictou ".....					
Totals.....					
Charlottetown, P.E.I.....					
Winnipeg, Man.....					
Vancouver, B.C.....					
Victoria ".....		24,656			
Totals.....		24,656			
Grand Totals.....		298,843	23,419	37,059	4,000

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.



SESSIONAL PAPER No. 12

## AMENDED RATES OF DUTY, JUNE 1, 1908.

Fiscal Year ended March 31, 1911—*Concluded.*

CR.

SHIP'S STORES.			TAKEN FOR RE- WORKING.	REMAINING IN WAREHOUSE.		TOTALS.		
Tobacco.	Cigarettes.	Overweight Cigarettes.	Tobacco.	Tobacco.	Cigarettes	Tobacco.	Cigarettes.	Overweight Cigarettes.
Lbs.	No.	No.	Lbs.	Lbs.	No.	Lbs.	No.	No.
.....	.....	.....	.....	316,591	.....	2,095	.....	.....
.....	.....	.....	.....	.....	.....	1,035,925½	.....	.....
.....	.....	.....	.....	.....	.....	39,250	.....	.....
.....	.....	.....	.....	.....	.....	26,808	.....	.....
.....	.....	.....	.....	.....	.....	34,170	.....	.....
.....	.....	.....	.....	10,828	.....	20,377	.....	.....
.....	.....	.....	.....	327,419	.....	1,158,625½	.....	.....
.....	.....	.....	.....	.....	.....	582	.....	.....
.....	39,250	2,850	3,386	498,742½	3,272,000	7,089,477	18,955,050	2,850
.....	.....	.....	1,100	24,864	504,550	26,945	1,594,950	.....
.....	.....	.....	150	10,152½	.....	232,917½	.....	.....
.....	39,250	2,850	4,636	533,759	3,776,550	7,349,921½	20,550,000	2,850
.....	.....	.....	.....	.....	.....	5,056	.....	.....
.....	.....	.....	.....	1,450	.....	26,353	.....	.....
.....	.....	.....	.....	.....	.....	2,100	.....	.....
.....	.....	.....	.....	1,450	.....	28,453	.....	.....
.....	.....	.....	.....	.....	.....	1,425	.....	.....
.....	.....	.....	.....	.....	.....	11,348	.....	.....
.....	.....	.....	.....	3,480	.....	75,776	.....	.....
330	.....	.....	.....	1,964	.....	202,640	.....	.....
330	.....	.....	.....	5,444	.....	278,416	.....	.....
330	39,250	2,850	4,636	868,072	3,776,550	8,833,245	20,550,000	2,850

W. J. GERALD,  
Deputy Minister.

APPENDIX A.—*Continued*—TOBACCO—UNDER AMENDED RATES OF DUTY, JUNE 1, 1908.  
 DR. No. 17.—COMPARATIVE STATEMENT of Warehouse Returns for the Fiscal Years ended March 31, 1910 and 1911.

PROVINCES.	REMAINING IN WAREHOUSE FROM LAST YEAR.			WAREHOUSED.			RECEIVED FROM OTHER DIVISIONS.		TOTALS.	
	Tobacco.	Cigarettes.	Overweight Cigarettes.	Tobacco.	Cigarettes.	Overweight Cigarettes.	Tobacco.		Cigarettes.	Overweight Cigarettes.
	Lbs.	No.	No.	Lbs.	No.	No.	Removed during the year.	In Transit last year.	No.	No.
1910.										
Ontario.....	340,403	843,950	9,900	775,634½	1,000	42,950	258,328	5,460	1,379,825½	1,000
Quebec.....	656,938½			6,849,820	11,031,800		13,640		7,520,308½	11,875,750
New Brunswick.....							20,779	1,244	22,023	
Nova Scotia.....	2,474						68,350	5,680	76,484	
Prince Edward Island.....	1,599			891					2,490	
Manitoba.....	5,064						532,091	32,560	569,715	
Alberta.....	2,980						3,920		6,900	
British Columbia.....	3,646						276,344½	30,228	310,218½	
Totals.....	1,013,104½	843,950	9,900	7,026,315½	11,032,800	42,950	1,173,432½	75,172	9,888,054½	11,876,750
1911.										
Ontario.....	294,612	1,681,400		762,194½	18,868,600	2,850	99,606	2,183	1,158,625½	
Quebec.....	893,707			6,447,294½			8,920		7,349,921½	2,850
New Brunswick.....	1,020						4,036		5,056	
Nova Scotia.....	530						26,433	1,490	28,453	
Prince Edward Island.....	1,425								1,425	
Manitoba.....							11,348		11,348	
British Columbia.....	5,488						248,500	24,428	278,416	
Totals.....	1,196,812	1,681,400		7,209,489	18,868,600	2,850	398,843	28,101	8,833,245	20,550,000
Totals.....										2,850

INLAND REVENUE DEPARTMENT,  
 OTTAWA, June 16, 1911.

W. J. GERALD,  
*Deputy Minister.*

SESSIONAL PAPER No. 12

APPENDIX A.—Continued—TOBACCO—UNDER AMENDED RATES OF DUTY, JUNE 1, 1908.  
No. 17.—COMPARATIVE STATEMENT of Warehouse Returns, &c.—Concluded. Cr.

PROVINCES.	ENTERED FOR CONSUMPTION.			REMOVED TO OTHER DIVISIONS		EXPORTED.		SHIPS' STORES.		TAKEN FOR REWORKING.	REMAINING IN WAREHOUSE.		TOTALS.	
	Tobacco at 5c. per lb.	Cigarettes at \$2.40 per M.	Overweight Cigarettes, at \$7 per M.	Duty. \$ cts.	Tobacco.		Tobacco.		Cigarettes.		Tobacco.	Cigarettes.	Tobacco.	Cigarettes.
					Ware- housed in Divisions to which removed.	In Transi- t.	Lbs.	No.	Lbs.	No.				
1910.	Lbs.	No.	No.		Lbs.	Lbs.	Lbs.	No.	Lbs.	No.	Lbs.	No.	Lbs.	No.
Ontario.....	1,083,340½	10,194,350	52,850	54,167 05	.....	28,101	1,843	1,000	.....	33,337	291,642	1,379,825½	1,000	.....
Quebec.....	5,380,145	10,194,350	52,850	293,843 66	1,157,982½	28,101	26,956	.....	.....	893,707	1,681,400	7,520,398½	11,875,750	52,850
N. Bruns- w'k	21,003			1,050 15					220	.....	1,020	.....	.....	.....
Nova Scotia.	75,954			3,797 70						.....	530	.....	.....	.....
P. Edward I.	1,065			53 25						.....	1,425	.....	.....	.....
Manitoba.	569,715			28,185 75						.....	6,900	.....	.....	.....
Alberta.	6,900			345 00						.....	.....	.....	.....	.....
B. Columbia	280,076½			14,453 83	15,500		154			.....	5,488	.....	.....	.....
Totals.....	7,427,199	10,194,350	52,850	396,196 39	1,173,432½	28,101	28,799	1,000	.....	33,337	1,190,812	9,888,464½	11,876,750	52,850
1911.														
Ontario.....	829,908			41,495 41			1,298½	.....	.....	.....	327,419	1,158,625½	.....	.....
Quebec.....	6,378,160	16,730,200		356,060 54	374,187 23,419		35,760½	4,000	.....	4,636	533,759	7,349,921½	20,550,000	2,850
N. Bruns- w'k	5,656			252 80					39,250	.....	.....	5,056	.....	.....
Nova Scotia.	27,003			1,350 15						.....	1,450	.....	.....	.....
P. Edward I.	1,425			71 25						.....	.....	.....	.....	.....
Manitoba.	11,348			567 40						.....	.....	.....	.....	.....
B. Columbia	247,986			12,399 30	24,656		330			.....	5,444	.....	.....	.....
Totals.....	7,500,886	16,730,200		415,196 85	298,843 23,419		37,059	4,000	330	4,636	808,072	8,833,245	20,550,000	2,850

1911.

1910.

Total duty collected ex-manufactory and ex-warehouse includ-

ing Canada Twist, Raw Leaf, and other materials.....

\$6,780,932 90

\$6,064,454 18

License fees. ....

3,145 00

Totals.....

\$6,067,599 18

W. J. GERALD,  
Deputy Minister.

\$8,784,139 90

2 GEORGE V., A. 1912

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.	
1,778	8,221				9,999	... Belleville Ont. ....
21,235	80,076	5,348	593		107,252	... Brantford " ....
11,245	31,182		1,187		43,614	... Guelph " ....
1,577,984	1,761,539	318,461	914	1,001	3,659,899	... Hamilton " ....
47,958	63,239	5,282	1,228		117,727	... Kingston " ....
197,356	572,673	54,401	4,564	430	829,424	... London " ....
2,023	1,825				3,848	... Ottawa " ....
4,441	4,647		2,076½	136	11,300½	... Owen Sound " ....
1,313					1,313	... Perth " ....
619	2,264				2,883	... Peterborough " ....
2,531	6,602				9,133	... Port Arthur " ....
731	2,377		839		3,947	... Prescott " ....
11,744	9,061	1,687			22,492	... St. Catharines " ....
15,515	20,861		1,924		38,300	... Stratford " ....
391,921	445,143	53,098	3,150		893,312	... Toronto " ....
22,639	7,216		1,012		30,867	... Windsor " ....
2,311,033	3,016,946	433,277	17,487½	1,567	5,785,310½	... Totals. ....
5,049½	11,347		6,011		22,407½	... Joliette Que. ....
6,875,872½	12,206,275½	193,795	12,098	109	19,288,149½	... Montreal " ....
120,910	220,380	5,743	11,032		358,065	... Quebec " ....
2,266					2,266	... St. Hyacinthe " ....
128,990	408,520	28,065	808		566,383	... Sherbrooke " ....
1,974	2,319½		185		4,478½	... Three Rivers " ....
7,135,061½	12,848,842	227,603	30,134	109	20,241,749½	... Totals. ....
17,461	19,996				37,457	... St. John, N. B. ....
1,821	7,460		141		9,422	... Halifax, N. S. ....
3,829	2,430				6,259	... Pictou " ....
5,650	9,890		141		15,681	... Totals. ....
31,279	16,210				47,489	... Charlottetown, P.E.I. ....
54,491	137,929	14,494	1,523		208,437	... Winnipeg, Man. ....
3,706	11,319		4,740		19,765	... Moose Jaw, Sask. ....
6,831	44,363	5,074	1,584	432	58,284	... Calgary, Alta. ....
47,811	112,095	1,772	1,505		163,183	... Vancouver, B.C. ....
22,149	48,878	4,992			76,019	... Victoria " ....
69,960	160,973	6,764	1,505		239,202	... Totals. ....
9,635,472½	16,266,468	692,212	57,114½	2,108	26,653,375	... Grand Totals. ....

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

SESSIONAL PAPER No. 12

## SCRAPS AND CUTTINGS.

Fiscal Year ended March 31, 1911.

CR.

ENTERED FOR CONSUMPTION		REMOVED TO OTHER DIVISIONS.		Ex- ported.	Destroyed.	Entered for Manu- facture, Free.	Remain- ing in Ware- house.	Totals.
Quantity.	Duty.	Warehoused in divisions to which removed.	In Transit.					
Std. lbs.	8 cts.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.
7,569	2,123 10						2,430	9,999
80,286	22,480 08			5,348			21,618	107,252
34,191	9,588 88	1,187	283	119			7,834	43,614
1,851,239	518,654 92	4,903	162	320,235	117		1,483,243	3,659,899
57,048	16,145 78	1,744		5,282			53,653	117,727
573,056	171,179 40	4,843	1,316	57,001	259		192,949	829,424
3,327	931 56	433					88	3,848
5,496 <sup>1</sup> / <sub>4</sub>	1,538 95	1,187					4,617	11,300 <sup>1</sup> / <sub>4</sub>
							1,313	1,313
2,107	589 96						776	2,883
5,321	1,489 88	194					3,618	9,133
2,042	571 76						1,905	3,947
12,201	3,444 42	342		1,687			8,262	22,492
24,928	6,979 84	163		1,124			12,085	38,900
506,116	142,071 86	2,404	321	54,027	294		330,150	893,312
14,086	3,947 58	141					16,640	30,867
3,179,013 <sup>1</sup> / <sub>4</sub>	901,737 97	17,541	2,082	444,823	670		2,141,181	5,785,310 <sup>1</sup> / <sub>4</sub>
12,755 <sup>3</sup> / <sub>4</sub>	3,572 51	2,503 <sup>3</sup> / <sub>4</sub>					7,148	22,407 <sup>3</sup> / <sub>4</sub>
10,835,642 <sup>1</sup> / <sub>2</sub>	3,055,658 88	24,410 <sup>1</sup> / <sub>2</sub>	1,091	264,858	714		8,161,434	19,288,149 <sup>1</sup> / <sub>2</sub>
216,141	60,519 48	3,215		5,834	150		132,725	358,065
			2,266					2,266
389,329	109,012 12	2,817		26,291		3,119	144,827	566,383
2,837 <sup>1</sup> / <sub>2</sub>	794 50						1,641	4,478 <sup>1</sup> / <sub>2</sub>
11,456,705 <sup>1</sup> / <sub>2</sub>	3,229,557 49	32,946 <sup>1</sup> / <sub>4</sub>	3,357	296,983	864	3,119	8,447,775	20,241,749 <sup>1</sup> / <sub>2</sub>
21,385	5,987 80	154			827		15,091	37,457
6,862	1,921 36	578					1,982	9,422
5,017	1,345 26		65	181			996	6,259
11,879	3,266 62	578	65	181			2,978	15,681
10,391	2,909 48						37,098	47,489
129,950	37,544 08	3,186		15,618	21		59,662	208,437
14,253	4,059 16	1,074	94				4,344	19,765
38,881	10,897 04	300		5,483			13,620	58,284
101,460	29,929 48	1,069	153	2,323	467		57,711	163,183
48,786	13,847 52	266		6,348			20,619	76,019
150,246	43,777 00	1,335	153	8,671	467		78,330	239,202
15,012,703 <sup>3</sup> / <sub>4</sub>	4,239,736 64	57,114 <sup>1</sup> / <sub>4</sub>	5,751	771,759	2,849	3,119	10,800,079	26,653,375

W. J. GERALD,  
Deputy Minister.



2 GEORGE V., A. 1912

## 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.	1910.
2,017,908	3,156,552	374,322	37,831 $\frac{1}{4}$	1,409	5,588,022 $\frac{1}{4}$	.... Ontario .....
8,080,552 $\frac{1}{4}$	9,614,617 $\frac{1}{4}$	184,427	42,635	3,811	17,926,042 $\frac{1}{2}$	.... Quebec .....
13,498	24,451	.....	606	.....	38,555	.... New Brunswick .....
9,789	9,683	.....	.....	.....	19,472	.... Nova Scotia .....
1,646	23,042	.....	.....	.....	42,688	.... P. E. Island .....
58,025	133,111	17,239	3,717	.....	212,092	.... Manitoba .....
3,970	6,273	.....	.....	.....	10,243	.... Saskatchewan .....
3,459	38,616	596	113	.....	42,784	.... Alberta .....
86,702	140,636	13,730	3,263 $\frac{1}{2}$	.....	244,331 $\frac{1}{2}$	.... British Columbia .....
10,293,549 $\frac{1}{4}$	13,146,981 $\frac{1}{4}$	590,314	88,165 $\frac{3}{4}$	5,220	24,124,230 $\frac{1}{4}$	..... Totals .....
1911.						
2,311,033	3,016,946	438,277	17,487 $\frac{1}{4}$	1,567	5,785,310 $\frac{1}{4}$	.... Ontario .....
7,135,061 $\frac{3}{4}$	12,848,842	227,603	30,134	109	20,241,749 $\frac{3}{4}$	.... Quebec .....
17,461	19,996	.....	.....	.....	37,457	.... New Brunswick .....
5,650	9,890	.....	141	.....	15,681	.... Nova Scotia .....
31,279	16,210	.....	.....	.....	47,489	.... P. E. Island .....
54,491	137,929	14,494	1,523	.....	208,437	.... Manitoba .....
3,706	11,319	.....	4,740	.....	19,765	.... Saskatchewan .....
6,831	44,363	5,074	1,584	432	58,284	.... Alberta .....
69,960	160,973	6,764	1,505	.....	230,202	.... British Columbia .....
9,635,472 $\frac{3}{4}$	16,266,468	692,212	57,114 $\frac{1}{4}$	2,108	26,653,275	..... Totals .....

INLAND REVENUE DEPARTMENT,

OTTAWA, June 16, 1911.

SESSIONAL PAPER No. 12

## INCLUDING STEMS, SCRAPS AND CUTTINGS.

for the Fiscal Years ended March 31, 1910 and 1911.

CR.

ENTERED FOR CONSUMPTION.		REMOVED IN BOND TO OTHER DIVISIONS.		Ex- ported.	De- stroyed.	Entered for Manu- facture, Free.	Remain- ing in Ware- house.	Totals.
Quantity.	Duty.	Warehoused in divisions to which removed. *	In Transit.					
Std. lbs.	8 cts.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.
2,861,515 $\frac{1}{4}$	809,624 27	24,648	1,324	389,241	261	.....	2,311,033	5,588,022 $\frac{1}{4}$
10,492,266	2,948,580 72	61,063 $\frac{3}{4}$	784	196,976	2,617	37,274	7,135,061 $\frac{3}{4}$	17,926,042 $\frac{1}{2}$
20,988	5,876 84	.....	.....	.....	106	.....	17,461	38,555
13,822	3,870 16	.....	.....	.....	.....	.....	5,650	19,472
11,409	3,194 52	.....	.....	.....	.....	.....	31,279	42,688
131,576	37,606 52	627	.....	25,398	.....	.....	54,491	212,092
6,409	1,807 40	128	.....	.....	.....	.....	3,706	10,243
33,471	9,387 00	475	.....	2,007	.....	.....	6,831	42,784
158,418 $\frac{1}{2}$	44,660 45	1,224	.....	14,729	.....	.....	69,960	244,331 $\frac{1}{2}$
13,729,874 $\frac{3}{4}$	3,864,607 88	88,165 $\frac{3}{4}$	2,108	628,351	2,984	37,274	9,635,472 $\frac{3}{4}$	24,124,230 $\frac{1}{4}$
3,179,013 $\frac{1}{4}$	901,737 97	17,541	2,082	444,823	670	.....	2,141,181	5,785,310 $\frac{1}{4}$
11,456,705 $\frac{1}{2}$	3,229,557 49	32,946 $\frac{1}{4}$	3,357	296,983	864	3,119	8,447,775	20,241,749 $\frac{3}{4}$
21,385	5,987 80	154	.....	.....	827	.....	15,091	37,457
11,879	3,266 62	578	65	181	.....	.....	2,978	15,681
10,391	2,909 48	.....	.....	.....	.....	.....	37,098	47,489
129,950	37,544 08	3,186	.....	15,618	21	.....	59,662	208,437
14,253	4,059 16	1,074	94	.....	.....	.....	4,344	19,765
38,881	10,897 04	300	.....	5,483	.....	.....	13,620	58,284
150,246	43,777 00	1,335	153	8,671	467	.....	78,330	239,202
15,012,703 $\frac{3}{4}$	4,239,736 64	57,114 $\frac{1}{4}$	5,751	771,759	2,849	3,119	10,800,079	26,653,375

W. J. GERALD,  
*Deputy Minister.*

2 GEORGE V., A. 1912

APPENDIX A—*Continued*—OTHER MATERIALS.

DR. No. 20.—WAREHOUSE RETURN for the Fiscal Year ended March 31, 1911. 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.
164,522	1,124,855	1,289,377	Montreal, Q.	1,123,383	179,741 28	165,994	1,289,377
164,522	1,124,855	1,289,377	Totals..	1,123,383	179,741 28	165,994	1,289,377

INLAND REVENUE DEPARTMENT,

OTTAWA, June 16, 1911.

W. J. GERALD,

*Deputy Minister.*APPENDIX A—*Continued*—OTHER MATERIALS.DR. No. 21.—COMPARATIVE STATEMENT of Warehouse Returns for the Fiscal CR.  
Years ended March 31, 1910 and 1911.

Remaining in Ware- house from last year.	Ware- housed.	Totals.	Provinces.	ENTERED FOR CONSUMPTION.		Remaining in Warehouse.	Totals.
				Quantity.	Duty.		
Lbs.	Lbs.	Lbs.	1910.	Lbs.	\$ cts.	Lbs.	Lbs.
234,800	1,198,749	1,433,549	Quebec . . . .	1,269,027	203,044 32	164,522	1,433,549
			1911.				
164,522	1,124,855	1,289,377	Quebec . . . .	1,123,383	179,741 28	165,994	1,289,377

INLAND REVENUE DEPARTMENT,

OTTAWA, June 16, 1911.

W. J. GERALD,

*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, 1911.

Divisions.	LICENSES.		Canada Twist, at 5 cts. per lb.	Total Duty Collected, including License Fees.	
	No.	Fees.		\$	cts.
		\$	Lbs.	\$	cts.
Ottawa, Ont. ....	5	10	610	40	50
Prescott, Ont. ....	2	4	380	23	00
Totals. ....	7	14	990	63	50
Montreal, Que. ....	34	68	18,191	977	55
Totals. ....	34	68	18,191	977	55
Grand Totals. ....	41	82	19,181	1,041	05

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.W. J. GERALD,  
*Deputy Minister.*APPENDIX A—*Continued*—CANADA TWIST TOBACCO.No. 23.—COMPARATIVE STATEMENT for the Fiscal Years ended March 31, 1910  
and 1911.

Provinces.	LICENSES.		Canada Twist, at 5 cts. per lb.	Total Duty Collected, including License Fees.	
	No.	Fees.		\$	cts.
1910.		\$	Lbs.	\$	cts.
Ontario. ....	6	12	1,380	81	00
Quebec. ....	29	58	19,293	1,022	65
Totals. ....	35	70	20,673	1,103	65
1911.					
Ontario. ....	7	14	990	63	50
Quebec. ....	34	68	18,191	977	55
Totals. ....	41	82	19,181	1,041	05

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.W. J. GERALD,  
*Deputy Minister.*

APPENDIX A.—Continued—CIGARS.

No. 24.—Return of Manufactures for the Fiscal Year ended March 31, 1911.

DIVISIONS.	LICENSEES.		Total Raw Leaf Tobacco and other materials actually used.	DEFICIEN- CIES PAY- ING DUTY.		CIGARS AT \$3 PER THOUSAND.				CIGARS AT \$2 PER THOUSAND.				Total Duty collected ex- Manufac- tory, including License Fees.
	No.	Fees.		Cigars.	No.	Manufac- tured.	Paid Duty.	Ware- housed.	Manufac- tured.	Paid Duty.	Ware- housed.			
		% cts.	Lbs.		No.	No.	No.	No.	No.	No.	No.	No.	No.	% cts.
Bellefille, Ont.	1	50 00	6,597							346,890	133,500	213,300	317 00	
Brantford "	5	250 00	81,576							4,687,010	3,225,540	1,461,470	6,704 68	
Guelp "	10	500 00	51,600	1,322	1,200					2,765,735	1,336,125	1,429,670	3,174 90	
Hamilton "	10	500 00	334,616							16,142,965	3,366,710	12,776,255	7,238 82	
Kingston "	2	100 00	58,937							3,207,050	1,142,000	2,065,050	2,384 00	
London "	20	1,000 00	608,547							32,535,405	20,793,320	11,742,085	42,586 64	
Ottawa "	1	50 00	11,631							729,250	729,250		1,508 50	
Owen Sound, Ont.	1	50 00	13,349							614,925	614,925		1,301 23	
Perth "	1	50 00		4,418									58 84	
Peterborough "	1	50 00	2,041							126,350	116,350	10,000	282 70	
Port Arthur "	2	100 00	4,803	1,320						249,825	67,425	182,400	237 49	
Prescott "	2	100 00	7,205							389,200	176,200	213,000	452 40	
St. Catharines "	10	500 00	26,015							1,487,190	1,305,090	182,100	3,110 18	
Stratford "	3	150 00	28,252							1,452,440	1,091,090	361,350	2,332 18	
Toronto "	20	1,000 00	459,737							24,030,540	8,912,970	15,117,570	18,830 44	
Windsor "	8	400 30	23,339							1,254,160	692,035	562,125	1,784 07	
Totals.....	97	4,850 00	1,718,315	7,060	11,628	11,628				90,018,905	43,702,530	46,316,375	92,304 07	
Joliette, Que.	6	275 00	106,954							5,825,125	4,057,375	1,768,750	8,389 75	
Montréal "	41	2,000 00	1,719,328	2,266						92,570,195	53,828,245	36,741,950	109,759 03	
Québec "	5	225 00	112,241							6,796,570	3,348,540	3,448,030	6,922 08	
St. Hyacinthe, Que.	3	156 00	1,080							61,000	61,000		273 20	
Sherbrooke "	5	250 00	160,908							8,330,250	3,986,005	4,343,645	8,223 21	
Three Rivers "	2	100 00	11,274							725,825	402,075	323,750	904 15	
Totals.....	62	3,000 00	2,111,786	2,266	62,670	62,670	32,670	30,000		114,310,565	65,684,440	48,626,125	134,471 42	



## SESSIONAL PAPER No. 12

St. John, N.B. ....	2	100 00	67,813	.....	.....	.....	4,077,900	673,100	3,404,800	1,446 20
Halifax, N.S. ....	2	100 00	11,567	.....	.....	.....	614,125	462,375	151,750	1,024 75
Pictou " .....	2	100 00	2,602	.....	.....	863	135,400	135,400	.....	372 53
Totals .....	4	200 00	14,169	.....	.....	863	749,525	597,775	151,750	1,397 28
Winnipeg, Man. ....	13	650 00	142,753	.....	.....	.....	7,387,845	4,624,885	2,762,960	9,899 77
Moose Jaw, Sask. ....	5	250 00	13,608	.....	.....	106	708,925	632,950	55,975	1,556 11
Calgary, Alberta .....	6	250 00	36,321½	.....	1,020	.....	1,842,000	1,842,000	.....	3,937 06
Vancouver, B.C. ....	23	1,100 00	103,871	.....	2,604	.....	5,836,700	5,808,350	28,350	12,724 50
Victoria " .....	13	650 00	43,910	.....	.....	.....	2,488,645	2,488,645	.....	5,627 29
Totals .....	36	1,750 00	147,781	.....	2,604	.....	8,325,345	8,296,945	28,350	18,351 79
Grand Totals .....	225	11,050 00	4,252,608	.....	77,922	10,295	227,421,010	126,074,675	101,346,335	263,363 70

INLAND REVENUE DEPARTMENT,

OTTAWA, June 16, 1911.

W. J. GERALD,

Deputy Minister.

## APPENDIX A—Continued—CIGARS.

No. 25.—COMPARATIVE STATEMENT of Manufactures for the Fiscal Years ended March 31, 1910 and 1911.

PROVINCES.	LICENSES.		Total Raw Leaf Tobacco and other Materials actually used.	DEFICIEN- CIES PAYING DUTY.		CIGARS AT \$3 PER THOUSAND.				CIGARS AT \$2 PER THOUSAND.				Total Duty Col- lected ex- manufactory, including License Fees.
	No.	Fees.		Cigars.		Manu- factured.	Paid Duty	Ware- housed.		Manu- factured.	Paid Duty.	Warehoused		
		\$ cts.	Lbs.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	\$ cts.
1910.														
Ontario.	103	5,100 00	1,507,687½	36,041	8,550	8,550	8,550	.....	.....	81,348,955	40,882,200	40,466,755	40,466,755	86,962 13
Quebec.	61	2,925 00	1,814,792½	300	71,592	71,592	71,592	.....	.....	99,586,735	53,839,960	45,746,775	45,746,775	110,820 30
New Brunswick.	3	150 00	77,568	.....	.....	.....	.....	.....	.....	4,601,045	1,327,295	3,273,750	3,273,750	2,804 59
Nova Scotia.	4	175 00	14,014	.....	.....	.....	.....	.....	.....	763,710	504,610	253,100	253,100	1,184 22
Manitoba.	11	550 00	143,563	.....	.....	.....	2,019	.....	.....	7,624,160	4,759,300	2,864,860	2,864,860	10,074 66
Saskatchewan.	5	225 00	6,908	.....	.....	.....	.....	.....	.....	377,575	377,575	.....	.....	930 15
Alberta.	5	225 00	28,731	.....	.....	.....	.....	.....	.....	1,459,660	1,459,660	.....	.....	3,144 32
British Columbia.	39	1,875 00	151,444½	454	.....	.....	.....	.....	.....	8,441,595	8,339,020	102,575	102,575	18,553 94
Totals	251	11,225 00	3,744,738½	36,795	82,161	82,161	82,161	.....	.....	204,203,435	111,489,620	92,713,845	92,713,845	234,524 31
1911.														
Ontario.	97	4,850 00	1,718,315½	7,660	11,628	11,628	11,628	.....	.....	90,618,905	43,702,530	46,316,375	46,316,375	92,304 07
Quebec.	62	3,000 00	2,111,766½	2,266	62,670	62,670	62,670	30,000	.....	114,310,565	65,684,440	48,626,125	48,626,125	134,471 42
New Brunswick.	2	100 00	67,813	.....	.....	.....	.....	.....	.....	4,077,900	673,100	3,404,800	3,404,800	1,446 20
Nova Scotia.	4	200 00	14,169	863	.....	.....	.....	.....	.....	749,525	597,775	151,750	151,750	1,397 28
Manitoba.	13	650 00	142,753	.....	.....	.....	.....	.....	.....	7,387,845	4,624,885	2,762,960	2,762,960	9,899 77
Saskatchewan.	5	250 00	13,668	106	.....	.....	.....	.....	.....	708,925	652,950	55,975	55,975	1,536 11
Alberta.	6	250 00	36,321½	.....	.....	.....	.....	.....	.....	1,842,000	1,842,000	.....	.....	3,937 06
British Columbia.	36	1,750 00	147,751	.....	.....	.....	.....	.....	.....	8,325,345	8,296,995	28,350	28,350	18,251 79
Totals	225	11,050 00	4,252,608	10,256	77,922	77,922	77,922	30,000	47,922	227,421,010	126,074,675	101,346,335	101,346,335	263,363 70

Memo:

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.Total number of cigars manufactured —  
1910..... 204,285,596  
1911..... 227,498,932W. J. GERALD,  
Deputy Minister.

No. 26.—WAREHOUSE RETURN

CIGARS.



## SESSIONAL PAPER No. 12

St. John, N.B.	75,050	1,222,200	.....	3,404,800	.....	75,050	4,627,000	.....
Halifax, N.S.	90,950	88,475	.....	151,750	.....	90,950	240,225	.....
Winnipeg, Man.	14,090	759,035	.....	2,762,960	.....	14,090	3,521,995	.....
Moosejaw, Sask.	.....	.....	.....	55,975	.....	19,150	55,975	.....
Vancouver, B.C.	11,500	30,100	.....	28,350	.....	11,500	58,450	.....
Victoria "	.....	12,000	.....	.....	.....	.....	12,000	.....
Totals	11,500	42,100	.....	28,350	.....	11,500	70,450	.....
Grand Totals	1,280,830	24,350,550	114,000	101,376,335	4,045,750	1,299,980	129,781,635	114,000

\* 30,000 cigars at \$3 per M.

INLAND REVENUE DEPARTMENT,

OTTAWA, June 16, 1911

W. J. GERALD,  
*Deputy Minister.*



## APPENDIX A.—Continued—CIGARS,

No. 26.—WAREHOUSE RETURN for the Fiscal Year ended March 31, 1911—Concluded.

Cr.

DIVISIONS.	ENTERED FOR CONSUMPTION.				Duty. \$ cts.	REMOVED TO OTHER DIVISIONS.		Exported at \$2 per M.	REMAINING IN WAREHOUSE.			TOTALS.		
	Quantity.		Can- adian at \$3 per M.	Warehoused in Divisions to which removed at \$2 per M.		Foreign at \$6 per M.	Foreign at \$6 per M.		At \$2 per M.	Canadian at \$3 per M.	Foreign at \$6 per M.	At \$2 per M.	Can- adian at \$3 per M.	
	Foreign at \$6 per M.	At \$2 per M.												
	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
Belleville, Ont.	2,750	194,050			404 60					94,850			288,900	
Brantford "	195,000	1,313,700			3,797 40				157,400	1,418,345			2,732,045	
Guelph "		1,562,050			3,124 10					320,120			1,882,170	
Hamilton "	118,650	16,104,905			32,921 71			10,000	47,300	1,823,650			17,938,555	
Kingston "	72,050	2,146,500			4,725 30					863,050			3,009,550	
London "	103,275	11,593,085			23,895 82					3,024,275			14,617,360	
Ottawa "		75,000			150 00					107,000			182,000	
Perth "		103,000			296 00					1,500			103,000	
Peterborough "		25,000			50 00					52,475			26,500	
Port Arthur "		129,925			259 85					73,000			182,400	
Prescott "		210,000			420 00					70,900			283,000	
St Catharines "	6,550	187,000			413 30					111,900			257,900	
Stratford "		315,200			630 40					1,973,660			427,100	
Toronto "	13,000	15,242,385			30,772 77					459,450			17,216,045	70,000
Windsor "	17,750	453,725			1,025 95				42,575				919,175	
Totals .....	529,025	49,661,525			102,707 20			10,000	247,275	10,394 175			60,065,700	70,000
Joliette, Que.										732,875			2,346,725	
Montreal "	110,225	34,624,825			2,356 20					8,692,755	20,000		46,934,580	44,000
Quebec "	7,000	*3,192,905			69,983 00			7,000	71,900	1,624,710			4,817,615	
St. Hyacinthe "	67,000	151,125			6,457 81				10,750				151,125	
Sherbrooke "	46,065	4,618,680			704 25					1,978,465			6,597,145	
Three Rivers "		275,800			9,513 75					77,300			353,100	
Totals .....	230,290	44,041,435			89,566 61			7,000	82,650	13,106,105	20,000		61,200,290	44,000

## SESSIONAL PAPER No. 12

St. John, N.B.	55,900	3,426,700	7,188 80	.....	19,150	.....	1,200,300	.....	75,050	4,027,000	.....
Halifax, N.S.	90,450	172,650	891 00	.....	.....	.....	67,575	.....	90,450	240,225	.....
Winnipeg, Man.	14,090	2,985,135	6,054 81	.....	.....	.....	536,860	.....	14,090	3,521,995	.....
Moosejaw, Sask.	19,150	50,000	214 90	.....	.....	.....	5,975	.....	19,150	55,975	.....
Vancouver, B.C.	11,500	58,450	185 90	.....	.....	.....	.....	.....	11,500	58,450	.....
Victoria " "	.....	12,000	24 00	.....	.....	.....	.....	.....	.....	12,000	.....
Totals .....	11,500	70,450	209 90	.....	.....	.....	.....	.....	11,500	70,450	.....
Grand Totals	950,905	100,407,895	206,833 22	94,000	4,045,750	17,000	25,310,990	20,000	1,209,980	129,781,635	114,000

\* 30,000 cigars at \$3.00 per M.

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

W. J. GERALD,  
*Deputy Minister.*

## APPENDIX A.—Continued—CIGARS.

Dr. No. 27.—COMPARATIVE STATEMENT OF Warehouse Returns for the Fiscal Years ended March 31, 1910 and 1911.

PROVINCES.	REMAINING IN WAREHOUSE FROM LAST YEAR.				Warehoused at \$2 per M.		REMOVED FROM OTHER DIVISIONS.		TOTALS.		
	Foreign at \$6 per M.		Canadian at \$3 per M.		No.	No.	Removed during the year at \$2 per M.	Foreign at \$6 per M.	Foreign at \$6 per M.	At \$2 per M.	Canadian at \$3 per M.
	No.	No.	No.	No.							
1910.											
Ontario.....	1,794,625	9,646,080	110,000	40,466,755	5,124,500	.....	.....	1,794,625	.....	55,237,335	110,000
Quebec.....	1,367,650	12,062,720	110,850	45,746,775	360,600	.....	.....	1,367,650	.....	58,170,695	110,850
New Brunswick.....	281,225	984,700	.....	3,273,750	.....	.....	.....	281,225	.....	4,258,450	.....
Nova Scotia.....	118,550	66,925	.....	259,100	.....	.....	.....	118,550	.....	326,025	.....
Manitoba.....	58,490	483,975	.....	2,864,800	.....	.....	.....	58,490	.....	3,348,835	.....
Saskatchewan.....	.....	25,350	.....	.....	.....	.....	.....	.....	.....	25,350	.....
British Columbia.....	31,200	123,500	.....	102,575	42,500	.....	.....	31,200	.....	274,575	.....
Totals.....	3,651,740	23,399,250	220,850	92,713,815	5,527,600	.....	.....	3,651,740	.....	121,640,665	220,850
1911.											
Ontario.....	776,300	9,973,575	70,000	46,316,375	3,775,750	.....	.....	776,300	.....	60,065,760	70,000
Quebec.....	312,940	12,274,165	44,000	*48,656,125	276,000	.....	.....	312,940	.....	61,200,290	44,000
New Brunswick.....	75,050	1,292,200	.....	3,404,800	.....	.....	.....	75,050	.....	4,627,000	.....
Nova Scotia.....	90,950	88,475	.....	151,750	.....	.....	.....	90,950	.....	240,225	.....
Manitoba.....	14,090	759,035	.....	2,762,960	.....	.....	.....	14,090	.....	3,521,995	.....
Saskatchewan.....	.....	.....	.....	53,975	.....	.....	.....	19,150	.....	55,975	.....
British Columbia.....	11,500	42,100	.....	28,350	.....	.....	.....	11,500	.....	70,450	.....
Totals.....	1,280,830	24,359,550	114,000	101,376,335	4,045,750	.....	.....	1,299,980	.....	129,781,635	114,000

SESSIONAL PAPER No. 12

APPENDIX A.—Continued—CIGARS.

No. 27.—COMPARATIVE STATEMENT of Warehouse Returns for the Fiscal Years ended March 31, 1910 and 1911—Concluded.

PROVINCES.	ENTERED FOR CONSUMPTION.				REMOVED TO OTHER DIVISIONS.		Ex-ported at \$2 per M.	REMAINING IN WAREHOUSE.			TOTALS.		
	Quantity.		Duty.	No.	No.	No.		Foreign at \$6 per M.	At \$2 per M.	Canadian at \$3 per M.	Foreign at \$6 per M.	At \$2 per M.	Canadian at \$3 per M.
	Foreign at \$6 per M.	At \$2 per M.											
1910.	No.	No.	\$ cts.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
Ontario. . . . .	1,018,325	45,202,260	96,634 47	42,530	19,000	776,300	9,973,575	70,000	1,794,625	55,237,335	110,000		
Quebec. . . . .	1,054,710	40,410,830	87,350 47	5,485,100		312,940	12,274,165	44,000	1,367,650	58,170,095	110,850		
New Brunswick. . . . .	206,175	3,036,250	7,309 55			75,050	1,222,260		281,225	4,258,450			
Nova Scotia. . . . .	27,600	237,550	640 70			90,450	88,475		118,550	326,025			
Manitoba. . . . .	44,400	2,539,800	5,446 00			14,090	759,035		58,490	3,348,835			
Saskatchewan. . . . .		25,350	50 70							25,350			
British Columbia. . . . .	19,700	252,475	583 15			11,500	42,100		31,200	274,575			
Totals . . . . .	2,370,910	91,734,515	198,015 04	5,527,600		19,000	1,280,830	114,000	3,651,740	121,640,665	220,850		
1911.													
Ontario. . . . .	529,025	49,661,525	102,707 20			247,275	10,394,175		776,300	60,065,700	70,000		
Quebec. . . . .	230,290	*44,041,435	89,566 61			82,650	13,106,105	20,000	312,940	61,200,290	44,000		
New Brunswick. . . . .	55,900	3,426,700	7,188 80				1,200,300		75,050	4,027,000			
Nova Scotia. . . . .	90,950	172,650	891 00				67,575		90,950	240,225			
Manitoba. . . . .	14,090	2,985,135	6,054 81				536,800		14,000	3,521,995			
Saskatchewan. . . . .	19,150	50,000	214 90				5,975		19,150	55,975			
British Columbia. . . . .	11,500	70,460	209 90						11,500	70,460			
Totals. . . . .	950,905	100,407,895	206,833 22	4,045,750	17,000	329,925	25,310,990	23,000	1,299,980	129,781,635	114,000		

\* 30,000 at \$3 per M.

Total duty collected, ex-manufacture and ex-warehouse.....	\$	1910.	\$	1911.
License fees.....	\$	421,314 35	\$	459,146 92
	\$	11,225 00	\$	11,030 00
Totals.....	\$	432,539 35	\$	470,196 92

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

W. J. GERALD,  
*Deputy Minister.*

2 GEORGE V., A. 1912

APPENDIX A—*Continued*—INSPECTION OF PETROLEUM.

No. 28.—RETURN of Inspected Petroleum and Naphtha shipped from Refineries, during the Fiscal Year ended March 31, 1911.

Divisions.	LICENSES.		Petroleum.	Naphtha.	Totals.
	No.	Fees.			
		\$	Gallons.	Gallons.	Gallons.
London, Ont. . . . .	2	2	19,632,453·50	5,602,772·02	25,235,225·52
Toronto, Ont. . . . .	1	1	947,355·95	792,366·39	1,739,722·34
Windsor, Ont. . . . .	1	1	437,819·00	122,517·00	560,336·00
Totals. . . . .	4	4	21,017,628·45	6,517,655·41	27,535,283·86

W. J. GERALD,  
*Deputy Minister.*

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.



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, 1910 and 1911.

Province.	LICENSES.		Petroleum.	Naphtha.	Totals.
	No.	Fees.			
1910.			Gallons.	Gallons.	Gallons.
Ontario.....	4	4	19,100,424·16	4,113,149·46	23,213,573·62
1911.					
Ontario....	4	4	21,017,628·45	6,517,655·41	27,535,283·86

W. J. GERALD,  
*Deputy Minister.*

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

APPENDIX A—*Continued*—MANUFACTURES IN BOND.

## No. 30.—RETURN of Manufactures for the

DIVISIONS.	LICENSES.		MATERIALS USED.			
	No.	Fees.	Spirits.	Beer, Wine, &c.	Nitric Acid.	Mercury.
		\$ cts.	Gallons.	Gallons.	Lbs.	Lbs.
Belleville, Ont.....	1	50 00	9,769·53	171·60	.....	.....
Brantford " .....	1	50 00	11,207·48	{ 84·20† } 4·80	.....	.....
Hamilton " .....	3	150 00	24,223·80	411·35	.....	.....
Kingston " .....	2	100 00	9,660·30	96·96	.....	.....
Ottawa " .....	1	50 00	5,292·22	33·00	.....	.....
Perth " .....	2	100 00	.....	.....	.....	.....
Prescott " .....	1	300 00	116,128·16	.....	577,705	63,232
Toronto " .....	11	525 00	121,311·10	919·90	.....	.....
Windsor " .....	7	350 00	3,388·77	{ 161·60 } 1,075·02*	.....	.....
Totals.....	29	1,675 00	300,981·36	1,075·02* 1,799·21 84·20†	577,705	63,232
Montreal, Que.....	11	550 00	34,232·54	325·40	.....	.....
Quebec " .....	1	50 00	14,922·20	287·00	.....	.....
St. Hyacinthe " .....	2	100 00	20,124·88	{ 205·13 } 187·49*	.....	.....
Sherbrooke " .....	2	600 00	35,259·21	.....	171,641	21,675
Totals.....	16	1,300 00	104,538·83	{ 817·53 } 187·49*	171,641	21,675
St. John, N. B.....	2	100 00	10,802·26	181·00	.....	.....
Winnipeg, Man.....	3	150 00	30,779·72	.....	.....	.....
Vancouver, B.C....	1	50 00	8,495·83	74·90	.....	.....
Grand Totals.....	51	3,275 00	455,598·00	84·20† 2,872·64 1,262·51*	749,346	84,907

\* Vinegar. † Malt extract.

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

## SESSIONAL PAPER No. 12

Fiscal Year ended March 31, 1911.

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.
58,701·33	.....	48,186·11	1,927 43	10,515·22	.....	1,977 43
64,458·21	.....	64,458·21	2,578 38	.....	.....	3,945 81
150,539·34	.....	33,400·47	1,336 01	117,138·87	.....	1,486 01
66,395·42	.....	7,459·08	298 36	58,936·34	.....	398 36
24,791·48	.....	.....	.....	24,791·48	.....	50 00
.....	82,176	.....	.....	.....	82,176	100 00
752,431·11	.....	119,928·76	4,797 17	632,502·35	.....	300 00
19,195·87	.....	19,195·87	767 83	.....	.....	5,322 17
.....	.....	.....	.....	.....	.....	1,117 83
1,136,512·76	82,176	292,628·50	11,705 18	843,884·26	82,176	14,697 61
.....	.....	.....	.....	.....	.....	.....
155,816·62	.....	116,659·96	4,666 44	39,156·66	.....	5,216 44
89,457·73	.....	71,191·93	2,847 69	18,265·80	.....	2,897 69
116,985·10	.....	68,889·55	2,755 59	48,095 55	.....	2,855 59
.....	26,069	.....	.....	.....	26,069	600 00
362,259·45	26,069	256,741·44	10,269 72	105,513·01	26,069	11,569 72
.....	.....	.....	.....	.....	.....	.....
66,173·03	.....	57,574·99	2,302 98	8,598·04	.....	2,402 98
.....	.....	.....	.....	.....	.....	.....
162,945·51	.....	130,455·33	5,218 17	32,490·18	.....	5,368 17
.....	.....	.....	.....	.....	.....	.....
44,014·45	.....	39,179·65	1,571 18	4,834·80	.....	2,293 72
.....	.....	.....	.....	.....	.....	.....
1,771,905·20	108,245	776,579·91	31,067 23	995,325·29	108,245	36,332 20

W. J. GERALD,  
Deputy Minister.

APPENDIX A.—*Continued*—MANUFACTURES IN BOND.

## No. 31.—COMPARATIVE STATEMENT of Manufactures for

PROVINCES.	LICENSES.		MATERIALS USED.			
	No.	Fees.	Spirits.	Beer, Wine, &c.	Nitric Acid.	Mercury.
1910.		\$ cts.	Galls.	Galls.	Lbs.	Lbs.
Ontario.....	25	1,500 00	354,239·35	{ *77·78 2,174·33	946,082	101,128
Quebec.....	17	1,350 00	130,056·81	747·26	223,398	28,350
New Brunswick.....	2	100 00	16,598·86	296·90	.....	.....
Manitoba.....	2	100 00	49,556·85	770·00	.....	.....
British Columbia.....	1	50 00	6,948·80	85·80	.....	.....
Totals.....	47	3,100 00	557,400·67	{ *77·78 4,074·29	1,169,480	129,478
1911.						
Ontario.....	29	1,675 00	300,981 36	{ *84·20 +1,075·02 1,799·21	577,705	63,232
Quebec.....	16	1,300 00	104,538·83	{ +187·49 817·53	171,641	21,675
New Brunswick.....	2	100 00	10,802·26	181·00	.....	.....
Manitoba.....	3	150 00	30,779·72	.....	.....	.....
British Columbia.....	1	50 00	8,495·83	74·90	.....	.....
Totals.....	51	3,275 00	455,598·00	{ 2,872·64 *84·20 +1,262·51	749,346	84,907

† Vinegar. \* Malt extract.

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

## SESSIONAL PAPER No. 12

the Fiscal Years ended March 31, 1910 and 1911.

MANUFACTURED.		PAID DUTY EX-MANUFACTORY.		WAREHOUSED.		Total Duty Collected ex-Manufac- tory, including License Fees.
Vinegar.	Crude Fulminate.	Vinegar.	Duty.	Vinegar.	Crude Fulminate.	
Galls.	Lbs.	Galls.	\$ cts.	Galls.	Lbs.	
1,030,469·79	129,569	204,096·34	8,369 67	826,373·45	129,569	9,869 67
454,635·11	34,193½	327,494·16	13,099 76	127,140·95	34,193½	14,449 76
95,776·27	.....	71,084·58	2,843 38	24,691·69	.....	2,943 38
258,113·74	.....	170,444·91	6,817 78	87,668·83	.....	6,917 78
37,946·69	.....	37,946·69	1,517 87	.....	.....	1,567 87
1,876,941·60	163,762½	811,066·68	32,648 46	1,065,874·92	163,762½	35,748 46
1,136,512·76	82,176	292,628·50	11,705 18	843,884·26	82,176	14,697 61
362,259·45	26,069	256,741·44	10,269 72	105,518·01	26,069	11,569 72
66,173·03	.....	57,574·99	2,302 98	8,598 04	.....	2,402 98
162,945·51	.....	130,455·33	5,218 17	32,490 18	.....	5,368 17
44,014·45	.....	39,179·65	1,571 18	4,834 80	.....	2,293 72
1,771,905·20	108,245	776,579·91	31,067 23	995,325 29	108,245	36,332 20

W. J. GERALD,  
*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.		DIVISIONS.
			Vinegar.			
Vinegar.	Vinegar.	Crude Fulminate.	Removed during the year.	Vinegar.	Crude Fulminate.	
Galls.	Galls.	Lbs.	Galls.	Galls.	Lbs.	
2,812·48	10,515·22			13,327·70		Belleville, Ont. ....
46,413·95	117,138·87			163,552·82		Hamilton " ....
17,496·68	58,936·34			76,433·02		Kingston " ....
8,423·98	24,791·54			33,215·52		Ottawa " ....
		82,176			82,176	Prescott " ....
185,562·36	632,502·35			818,064·71		Toronto " ....
260,709·45	843,884·32	82,176		1,104,593·77	82,176	Totals.....
23,053·78	39,156·66			62,210·44		Montreal, Que. ....
40,814·13	18,265·80			59,679·93		Quebec " ....
49,687·69	48,095·55		1,125·22	98,908·46		St. Hyacinthe, Que....
		26,069			26,069	Sherbrooke " ....
113,555·60	105,518·01	26,069	1,125·22	220,198·83	26,069	Totals.....
24,691·69	8,598·04			33,289·73		St. John, N.B. ....
73,289·63	32,490·18		48,462·57	154,242·38		Winnipeg, Man.....
	4,834·80			4,834·80		Vancouver, B.C.....
472,246·37	995,325·35	108,245	49,587·79	1,517,159·51	108,245	Grand Totals. . .

INLAND REVENUE DEPARTMENT,

OTTAWA, June 16, 1911.

## SESSIONAL PAPER No. 12

Fiscal Year ended March 31, 1911.

CR.

Entered for Consumption.		REMOVED TO OTHER DIVISIONS.		Exported.	Written off.	Remaining in Warehouse.	Totals.	
		Vinegar.						
Vinegar.	Duty.	Warehoused in Divisions to which removed.	In Transit.	Crude Fulmi- nate.	Vinegar.	Vinegar.	Vinegar.	Crude Fulmi- nate.
Galls.	\$ cts.	Galls.	Galls.	Lbs.	Galls.	Galls.	Galls.	Lbs.
2,812·48	112 50	.....	.....	.....	.....	10,515·22	13,327·70	.....
114,671·92	4,586 87	.....	.....	.....	.....	48,880·90	163,552·82	.....
55,591·90	2,223 66	3,607·76	.....	.....	.....	17,233·30	76,433·02	.....
23,604·22	944 14	.....	.....	.....	.....	9,611·30	33,215·52	.....
.....	.....	.....	.....	82,176	.....	.....	.....	82,176
583,369·99	23,334 78	44,854 81	3,727·68	.....	.....	186,112·23	818,064·71	.....
780,050·57	31,201 95	48,462·57	3,727·68	82,176	.....	272,352·95	1,104,593·77	82,176
28,610·71	1,144 43	1,125·22	.....	.....	.....	32,474·51	62,210·44	.....
19,382·59	775 30	.....	.....	.....	21,431·54	18,265·80	59,079·93	.....
67,457·95	2,698 36	.....	.....	.....	.....	31,450·51	98,908·46	.....
.....	.....	.....	.....	26,069	.....	.....	.....	26,069
115,451·25	4,618 09	1,125 22	.....	26,069	21,431·54	82,190·82	220,198·83	26,069
26,899·37	1,075 97	.....	.....	.....	.....	6,390·36	33,289·73	.....
115,282·37	4,611 30	.....	.....	.....	8,035·06	30,924·95	154,242·38	.....
.....	.....	.....	.....	.....	.....	4,834·80	4,834·80	.....
1,037,683·56	41,507 31	49,587·79	3,727·68	108,245	29,466·60	396,693·88	1,517,159·51	108,245

W. J. GERALD,  
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.			
Vinegar.	Vinegar.	Crude Fulminate.	Removed during the year.	Vinegar.	Crude Fulminate.	
Galls.	Galls.	Lbs.	Galls.	Galls.	Lbs.	1910.
278,102·06	826,373·45	129,569	13,383·48	1,117,858·99	129,569	Ontario....
146,211·19	127,140·95	34,193½	.....	273,352·14	34,193½	Quebec....
15,605·53	24,691·69	.....	.....	40,297·22	.....	New Brunswick..
13,726·31	87,668·83	.....	61,178·20	162,573·34	.....	Manitoba.....
4,282·37	.....	.....	.....	4,282·37	.....	British Columbia
457,927·46	1,065,874·92	163,762½	74,561·68	1,598,364·06	163,762½	..... Totals.....
1911.						
260,709·45	843,884·32	82,176	.....	1,104,593·77	82,176	Ontario.....
113,555·60	105,518·01	26,069	1,125·22	220,193·83	26,069	Quebec.....
24,691·69	8,598·04	.....	.....	33,289·73	.....	New Brunswick..
73,289·63	32,490·18	.....	.....	154,242·38	.....	Manitoba.....
.....	4,834·80	.....	48,462·57	4,834·80	.....	British Columbia
472,246·37	995,325·35	108,245	49,587·79	1,517,159·51	108,245	..... Totals.....

INLAND REVENUE DEPARTMENT,

OTTAWA, June 16, 1911.

## SESSIONAL PAPER No. 12

for the Fiscal Years ended March 31, 1910 and 1911.

Cr.

Entered for Consumption.		REMOVED TO OTHER DIVISIONS.		Exported.	Written off.	Remaining in Warehouse.	Totals.	
		Vinegar.						
Vinegar	Duty.	Ware- housed in Divisions to which removed.	In Transit.	Crude Fulminate	Vinegar.	Vinegar.	Vinegar.	Crude Fulminate
Galls.	\$ cts.	Galls.	Galls.	Lbs.	Galls.	Galls.	Galls.	Lbs.
782,587·86	31,303·53	74,561·68	.....	129,569	.....	260,709·45	1,117,858·99	129,569
159,796·54	6,391·89	.....	.....	34,193½	.....	113,555·60	273,352·14	34,193½
15,605·53	624·20	.....	.....	.....	.....	24,691·69	40,297·22	.....
89,283·71	3,571·38	.....	.....	.....	.....	73,289·63	162,573·34	.....
4,282·37	171·29	.....	.....	.....	.....	.....	4,282·37	.....
1,051,556·01	42,062·29	74,561·68	.....	163,762½	.....	472,246·37	1,598,364·06	163,762½
780,050·57	31,201·95	48,462·57	3,727·68	82,176	.....	272,352·95	1,104,593·77	82,176
115,451·25	4,618·09	1,125·22	.....	26,069	21,431·54	82,190·82	220,198·83	26,069
26,899·37	1,075·97	.....	.....	.....	.....	6,390·36	33,289·73	.....
115,282·37	4,611·30	.....	.....	.....	8,035·06	30,924·95	154,242·38	.....
.....	.....	.....	.....	.....	.....	4,834·80	4,834·80	.....
1,037,683·56	41,507·31	49,587·79	3,727·68	108,245	29,466·60	396,693·88	1,517,159·51	108,245

	1910.	1911.
Total duty collected, ex-manufactory and ex-warehouse....	\$ 74,710 75	\$ 74,564 51
Licenses fees. ....	3,100 00	3,275 00
Totals.....	\$ 77,810 75	\$ 77,839 51

W. J. GERALD,  
Deputy Minister.

2 GEORGE V., A. 1912

APPENDIX A—*Continued*—ACETIC ACID.

No. 34.—RETURN of Manufactures for the Fiscal Year ended March 31, 1911.

DIVISION.	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.
Montreal, Que.....	2	100 00	253,547·96	233,631·38	9,345 27	19,916·58	9,445 27

W. J. GERALD,  
*Deputy Minister.*

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

APPENDIX A—*Continued*—ACETIC ACID.

No. 35.—COMPARATIVE STATEMENT of Manufactures for the Fiscal Years ended March 31, 1910 and 1911.

PROVINCE.	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.
1910.							
Quebec.....	2	100 00	168,257·79	148,428·99	5,937 14	19,828·80	6,037 14
1911.							
Quebec.....	2	100 00	253,547·96	233,631·38	9,345 27	19,916·58	9,445 27

W. J. GERALD,  
*Deputy Minister*

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.



SESSIONAL PAPER No. 12

APPENDIX A—*Continued*—ACETIC ACID.

DR. No. 36.—WAREHOUSE RETURN for the Fiscal Year ended March 31, 1911. 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.
.....	19,916 58	19,916 58	Montreal, Que..	19,916 58	796 67	19,916 58

W. J. GERALD,  
*Deputy Minister.*INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.APPENDIX A—*Continued*—ACETIC ACID.No. 37—COMPARATIVE STATEMENT of Warehouse Returns for the Fiscal Years ended  
March 31, 1910 and 1911.

DR.

CR.

WAREHOUSED.	TOTALS	PROVINCE.	ENTERED FOR CONSUMPTION.		EXPORTED.	TOTALS.
Acetic Acid.	Acetic Acid.		Acetic Acid.	Duty.	Acetic Acid.	Acetic Acid.
Galls.	Galls.	1910.	Galls.	\$ cts.	Galls.	Galls.
19,828 80	19,828 80	.....Quebec .....	.....	.....	19,828 80	19,828 80
		1911.				
19,916 58	19,916 58	.....Quebec .....	19,916 58	796 67	.....	19,916 80

	1910.	1911
Total duty collected ex-manufactory .....	\$ 5,937 14	\$ 10,141 94
License fees .....	100 00	100 00
Totals .....	\$ 6,037 14	\$ 10,241 94

W. J. GERALD,  
*Deputy Minister.*INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

2 GEORGE V., A. 1912

(A)

## METHYLATED SPIRITS.

No. 38.—STATEMENT showing the quantity of Raw Materials on hand on April 1, 1910, and March 31, 1911, and brought in during the year ended March 31, 1911.

DR.

CR.

Names of Articles.	Stock on hand April 1, 1910.	Brought in during the year.	Total to be Accounted for.	Used in manufacture of Methylated Spirits.	Sold.	Stock on hand March 31, 1911.	Total Accounted for.
	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.
Alcohol.....	2,945·65	162,103·07	165,048·72	156,726·09	.....	8,322·63	165,048·72
Wood Naphtha..	1,033·15	35,526·27	36,559·42	32,806·02	.....	3,753·40	36,559·42

(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.
Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	p. c.
156,726·09	32,806·02	.....	189,532·11	186,559·33	2,972·78	1·19
						189,532·11

(C)

STATEMENT showing the quantity of Methylated Spirits on hand on April 1, 1910, and March 31, 1911, also quantity brought in, manufactured, sold and otherwise accounted for during the year ended March 31, 1911.

DR.

CR.

Stock on hand April 1, 1910.	Manufactured as per Statement (B) above.	Brought in during the year.	Total to be Accounted for.	Sold.	Used in Methylated Spirits Warehouse.	Re-used in manufacture of Methylated Spirits.	Stock on hand March 31, 1911.	Total Accounted for.
Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.
3,994·23	186,559·33	.....	190,553·56	187,499·59	.....	.....	3,053·97	190,553·56

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

W. J. GERALD,  
*Deputy Minister.*

## APPENDIX B



SESSIONAL PAPER No. 12

Broadfoot, S.	Accountant for the year.	31 45	.....	4 32	1,539 23
Spence, F. H.	1st Class Excise-man for the year.	25 45	.....	2 88	1,246 67
Powman, A.	1st "	25 45	.....	2 88	1,246 67
Egner, A.	1st "	25 45	.....	2 88	1,246 67
O'Brien, E. C.	2nd "	21 72	.....	2 88	1,065 37
Altman, P. J.	1st "	44 54	.....	2 88	1,227 58
Howie, A.	3rd "	18 95	.....	2 88	928 11
Coutts, J. J.	1st "	.....	63 72	2 88	1,208 40
Hanlon, J. R.	2nd "	.....	51 06	2 88	968 52
Martin, N.	1st "	.....	56 85	2 88	1,078 98
Thomas, F. W.	2nd "	.....	51 06	2 88	968 52
	Salaries.....	296 35	222 69	52 56	20,276 82
	Contingencies.....	.....	.....	.....	1,008 19
					21,285 01
<i>Hamilton.</i>					
Miller, W. F.	Salary as Collector for the year.	.....	.....	14 40	2,485 57
Cameron, D. M.	Special Class Excise-man for the year.	.....	.....	4 32	1,595 65
Baby, W. A. D.	"	.....	.....	4 32	1,857 71
O'Brien, J.	Deputy Collector Class "A" for the year.	37 94	88 69	7 20	1,679 05
Dumbrille, R. W.	1st Class Excise-man for the year.	25 45	.....	2 88	1,246 67
O'Brien, J. F.	Special Class Excise-man for the year.	29 99	.....	4 32	1,465 69
Hayhurst, T. H.	1st Class Excise-man for the year.	.....	63 72	2 88	1,208 40
Boyd, J. F. S.	1st "	44 54	.....	2 88	1,227 58
Amor, W.	2nd "	21 72	.....	2 88	1,065 37
	Special Class Excise-man for the year.	.....	{ 32 64 } 64 91	4 32	1,198 07
Cheseldine, J. H.	1st Class Excise-man for the year.	.....	63 72	2 88	1,208 40
Lawlor, J. J.	1st "	.....	54 95	2 88	1,042 11
Elliott, W. J.	2nd "	.....	51 06	2 88	968 52
Kirkpatrick, H. J.	3rd "	.....	37 19	2 88	704 92
Beasley, M. C.	2nd "	.....	46 47	2 88	880 64
Ballantine, A., jr.	2nd "	.....	37 23	2 88	704 88
Hiscoot, J. O.	3rd "	.....	39 96	2 88	757 10
Blackman, C.	Messenger for the year.	.....	46 47	2 88	880 64
Mitchell, J. L.	2nd Class Excise-man for the year.	.....	33 68	2 88	638 41
Griffin, P. F.	3rd Class Probationary Excise-man from April 1 to June 30, 1910, and 3rd Class Excise-man from July 1, 1910 to March 1, 1911.	.....	10 00	0 48	189 52
Henderson, H. G. D.	3rd Class Probationary Excise-man from December 1, 1910 to March 31, 1911.	.....	.....	.....	.....
	Salaries.....	159 64	670 72	76 80	23,004 90
	Contingencies.....	.....	.....	.....	759 32
					23,764 22

\* Insurance.

APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1911—Continued.

To whom paid.	Service.	DEDUCTIONS FOR			Amounts paid.	Total amounts paid.
		Superannuation.	Retirement.	Guarantee.		
		\$ cts.	\$ cts.	\$ cts.	\$	\$ cts.
<i>Kingston.</i>						
Dickson, C. T.	Salary as Collector for the year			7 20	1,892 77	
Grimason, T.	Deputy Collector Class "A" for the year.	27 47		3 60	1,343 90	
Hanley, A.	Accountant for the year.	21 47		2 88	1,050 62	
Lyons, E.	1st Class Excise-man for the year.	25 45		2 88	1,246 67	
O'Donnell, J.	3rd " "	18 95		2 88	928 11	
Fahcy, E.	3rd " "	18 95		2 88	928 11	
Hogan, J.	3rd " "		43 23	2 88	818 88	
Montgomery, W. H.	2nd " "		51 06	2 88	968 52	
	Salaries.	112 29	94 29	28 08	9,177 58	
	Contingencies.				163 04	
<i>London.</i>						
Alexander T.	Salary as Collector for the year.			7 20	2,492 77	
Davis, T. G.	Deputy Collector Class "A" for the year			3 60	1,771 34	
Thrasher, W. A.	" " " " " "		88 69	3 60	1,682 65	
Rose, J. A.	" " " " " "		64 96	3 60	1,231 44	
Coles, F. H.	Accountant for the year.			4 32	1,570 68	
Wilson, D.	" " " " " "	25 04		2 88	1,222 08	
Lee, E.	1st Class Excise-man for the year.	25 45		2 88	1,246 67	
Girard, L.	1st " "	25 45		2 88	1,246 67	
Royle, P.	1st " "	38 18	71 76	2 88	1,162 18	
Foster, H.	1st " "	44 54		2 88	1,227 58	
Webbe, C. E. A.	2nd " "	21 72		2 88	1,065 37	
Tracy, J. P.	2nd " "	21 72		2 88	1,065 37	
Tabbot, J.	3rd " "		47 42	2 88	890 64	
Fleming, C.	Deputy Collector Class "B" for the year.		40 23	2 88	761 88	
Whitehead, J. P.	" " " " " "		32 83	2 88	622 55	
Fiddes, J.	3rd Class Excise-man for the year		39 95	2 88	757 11	
Pleasance, W.	Stenographer for the year.		38 70	2 88	733 41	
Tyler, J. M.			25 59		486 84	
	Salaries	202 10	450 13	56 88	21,246 23	
	Contingencies				1,184 36	
						22,430 59

9,340 62







## SESSIONAL PAPER No. 12

St. Catharines.						
Hession, C. A. ....	Salary as Collector for the year.	29 99	.....	7 20	1,462 81	
Johnston, H. J. ....	Deputy Collector Class "A" for the year.	12 67	53 65	2 88	1,018 44	
Milliken, E. ....	2nd Class Excise-man for the year.	38 05	.....	2 88	1,074 42	
Schram, R. J. H. ....	" " " "	.....	.....	2 88	1,049 04	
Simpson, W. A. ....	1st " " " "	.....	63 72	2 88	1,208 40	
	Salaries.....	80 71	117 37	18 72	5,813 11	
	Contingencies.....	.....	.....	.....	344 71	
Stratford.						
Rennie, Geo. ....	Salary as Collector for the year.	37 94	.....	7 20	1,854 83	
Tobin, T. S. ....	Deputy Collector Class "A" for the year.	.....	*97 92	3 60	1,204 80	
Hicks, W. H. ....	" " " " "B" " "	.....	68 65	2 88	977 16	
Young, R. E. ....	1st Class Excise-man for the year.	19 96	*24 72	2 88	1,183 68	
	" " " " "B" " "	.....	63 72	4 32	949 32	
Jeffrey, A. J. ....	Accountant	.....	*67 68	3 60	946 44	
Dalton, M. J. ....	Deputy Collector Class "B" for the year.	.....	49 96	24 48	7,116 23	
	Salaries.....	57 90	426 30	.....	414 26	
	Contingencies.....	.....	.....	.....	7,530 49	
Toronto.						
Frankland, H. R. ....	Salary as Collector for the year.	37 94	124 94	14 40	2,360 63	
Gerald, C. ....	Special Class Excise-man for the year.	31 45	.....	4 32	1,857 71	
Boomer, J. B. ....	Accountant for the year.	.....	.....	4 32	1,539 23	
Mackenzie, J. H. ....	Deputy Collector Class "A" for the year.	.....	88 69	3 60	1,682 65	
Boyd, S. I. ....	" " " " "B" " "	24 97	.....	2 88	1,222 09	
Diek, J. W. ....	Special Class Excise-man for the year.	29 99	.....	4 32	1,463 69	
Evans, G. T. ....	" " " " "B" " "	29 99	.....	4 32	1,463 69	
Jameson, R. C. ....	" " " " "B" " "	31 94	.....	4 32	1,563 71	
Shanaay, M. ....	Deputy Collector Class "B" for the year.	22 04	*41 76	2 88	1,075 08	
	" " " " "B" " "	.....	59 99	2 88	1,095 37	
Coleman, C. ....	" " " " "B" " "	21 95	.....	2 88	1,075 11	
Helliwell, H. N. ....	1st Class Excise-man for the year.	25 45	.....	2 88	1,246 67	
O'Leary, T. J. ....	" " " " "B" " "	25 45	.....	2 88	1,246 67	
Graham, W. T. ....	Special Class Excise-man for the year.	25 94	.....	4 32	1,269 71	
Doyle, B. J. ....	1st Class Excise-man for the year.	25 45	.....	2 88	1,246 67	
Cook, W. R. ....	1st " " " "	25 45	.....	2 88	1,246 67	
Hurst, L. B. ....	Special Class Excise-man for the year.	28 93	.....	4 32	1,416 69	
Wardell, R. S. R. ....	1st Class Excise-man from April 1 to June 30, 1910.	11 15	.....	2 88	306 88	
Barber, J. S. ....	2nd " " " "	21 72	.....	2 88	1,065 37	
	* Insurance.	.....	.....	.....	.....	
	† Annuity.	.....	.....	.....	.....	

6,157 82







APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1911—Continued.

To whom paid.	Service.	DEDUCTIONS FOR			Amounts paid.	Total amounts paid.
		Superannuation.	Retirement.	Guarantee.	\$ cts.	\$ cts.
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
	<i>Montréal—Con.</i>					
	1st Class Excise-man for the year.	25 45		2 88	1,246 67	
"	1st " " from April 1 to August 31, 1910. Transferred to Joliette Sept. 1, 1910					
"	Deputy Collector Class "B" for the year.		26 55	1 20	503 50	
"	2nd Class Excise-man for the year.	21 72	59 99	7 20	1,132 81	
"	2nd " " " " " "	21 72		2 88	1,065 37	
"	2nd " " " " " "	21 72		2 88	1,065 37	
"	2nd " " " " " "	21 72		2 88	1,065 37	
"	2nd " " " " " "	38 65		2 88	1,049 04	
"	2nd " " " " " "	21 72		2 88	1,065 37	
"	Deputy Collector Class "B" for the year.	44 54		2 88	1,227 58	
"	1st Class Excise-man for the year.		63 72	2 88	1,230 40	
"	2nd " " " " " "		54 47	2 88	1,032 62	
"	3rd " " " " " "	18 95		2 88	928 11	
"	3rd " " " " " "	18 95		2 88	928 11	
"	3rd " " " " " "	18 95		2 88	928 11	
"	2nd " " " " " "	21 72		2 88	1,065 37	
"	3rd " " " " " "	18 95		2 88	928 11	
"	3rd " " " " " "		47 42	2 88	899 61	
"	3rd " " " " " "	18 95		2 88	928 11	
"	2nd " " " " " "	37 32		2 88	900 67	
"	Special Class Excise-man for the year		64 94	4 32	1,230 71	
"	1st " " " " " "		63 72	2 88	1,208 40	
"	2nd " " " " " "		54 47	2 88	1,032 62	
"	3rd " " " " " "		45 69	2 88	866 40	
"	1st " " " " " "		54 95	2 88	1,042 11	
"	Deputy Collector Class "B" for the year.		47 42	3 60	898 92	
"	3rd Class Excise-man for the year		44 21	2 88	837 88	
"	1st " " " " " "		58 41	2 88	1,108 68	
"	Deputy Collector Class "B" for the year		25 04	3 60	471 36	
"	2nd Class Excise-man for the year.		54 47	2 88	1,032 62	
"	3rd " " " " " "		41 70	2 88	790 41	
"	1st " " " " " "		59 37	2 88	1,126 50	
"	3rd " " " " " "		38 46	2 88	728 61	
"	Stenographer from April 1 to Sept. 30, 1910. Resigned Oct. 1, 1910.		15 00		285 00	
"	3rd Class Excise-man for the year.		34 92	2 88	662 17	



[illegible]

## APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1911—Continued.

To whom paid.	Service.	DEDUCTIONS FOR			Amounts paid.	Total amounts paid.
		Superannuation.	Retirement.	Guarantee.	\$	cts.
		%	\$	cts.	\$	cts.
<i>St. Hyacinthe.</i>						
Benoit, L. V.	Salary as Collector for the year		*58 56 94 94	7 20	1,739 27	
Macdonald, A. B.	" Special Class Excise-man for the year	31 94		4 32	1,563 71	
Fortier, J. J. O.	" Deputy Collector Class "B" from April 1 to Nov. 30, 1910.	14 63		1 92	716 75	
Langelier, F.	" " for the year		65 79	3 60	1,246 86	
Bernard, N. J. D.	" 1st Class Excise-man		*137 04 63 72	2 88	1,071 36	
Poirier, J. N.	" Deputy Collector Class "B"	28 04		2 88	769 08	
Deland, A. N.	" " "		40 04	3 60	756 36	
Dumaine, J. D.	" 1st Class Excise-man		*54 48 60 93	2 88	1,100 46	
Rouleau, J. O.	" 1st " "		60 93	2 88	1,154 94	
Gauvin, E.	" 2nd " "		54 47	2 88	1,032 62	
Tetrault, J.	" Deputy Collector Class "B" from April 1 to May 31, 1910.		1 24	0 60	23 16	
Portance, P. A.	" " for the year		4 96	1 80	93 24	
Desmarais, H. F.	" " "		10 04	3 60	186 36	
Francœur, A.	" Appointed Deputy Collector Class "B" from Dec. 12, 1910, to March 31, 1911		12 14	0 87	229 97	
	Salaries.....	74 61	719 28	41 91	11,684 14	
	Contingencies.....				3,125 12	
					14,809 26	
<i>Sherbrooke.</i>						
Simpson, A. F.	Salary as Collector for the year	37 94		7 20	1,854 83	
Quinn, J. D.	" Special Class Excise-man for the year	29 99		4 32	1,465 69	
Chartier, E.	" Deputy Collector Class "A" for the year		68 65	3 60	1,302 72	
Bowen, F. C.	" 3rd Class Excise-man		47 42	2 88	899 64	
de Grosbois, C. B.	" 2nd " "		39 95	3 60	756 39	
Rousseau, E. H.	" Deputy Collector Class "B"	67 93	202 49	24 48	7,159 91	
	Salaries.....				8,900 54	
	Contingencies.....					
					8,050 45	

## SESSIONAL PAPER No. 12

Three Rivers					
Hobert, C. D.	Salary as Collector for the year	29 99	.....	3 60	1,406 41
Duplessis, C. Z.	Deputy Collector Class "B" for the year	19 96	.....	3 60	976 44
Auger, L. H.	3rd Class Excise-man	.....	41 21	2 88	780 88
Doutigny, H.	Deputy Collector Class "B"	.....	4 96	1 80	93 24
	Salaries	49 95	46 17	11 88	3,316 97
	Contingencies	.....	.....	.....	383 67
					3,700 64
St. John, N. B.					
Belyea, T. H.	Salary as Collector for the year	37 94	.....	7 20	1,854 83
Clark, J. A.	Deputy Collector Class "A" for the year	27 47	.....	3 60	1,343 90
McCloskey, J. R.	Special Class Excise-man	28 93	.....	4 32	1,416 69
Fitzpatrick, W. J.	1st Class Excise-man	25 45	.....	2 88	1,246 67
Goldart, O. A.	Special	28 93	.....	4 32	1,416 69
Ferguson, J. C.	1st	25 45	.....	2 88	1,246 67
McGowan, J.	1st	.....	53 55	2 88	1,082 28
Dibblee, W.	Deputy Collector Class "B"	3 72	.....	2 88	293 40
Dwyer, D. T.	"	.....	10 04	3 60	186 36
Cassey, F. D.	2nd Class Excise-man	.....	46 47	2 88	880 64
Farmer, R. C.	3rd	.....	46 47	2 88	880 64
	Salaries	177 89	156 53	40 32	11,818 77
	Contingencies	.....	.....	.....	321 45
					12,170 22
Halifax					
Grant, H. H.	Salary as Collector for the year	41 99	.....	7 20	2,050 81
King, R. M.	Deputy Collector Class "A" for the year	31 45	.....	3 60	1,550 95
James, T. C.	Accountant for the year	25 45	.....	4 32	1,245 23
Carroll, D.	1st Class Excise-man for the year	25 45	.....	2 88	1,246 67
Bledien, C. W.	1st	25 45	.....	2 88	1,246 67
Hobley, H. H.	"	25 45	.....	2 88	1,246 67
Gorman, A. M.	1st	25 45	.....	2 88	1,246 67
Tompkins, P.	1st	18 95	.....	2 88	998 11
Munro, H. D.	3rd	18 95	.....	2 88	998 11
Waddell, S. J.	Deputy Collector Class "B" for the year	.....	22 44	3 60	423 96
	Salaries	238 59	22 44	36 00	12,102 85
	Contingencies	.....	.....	.....	289 77
					12,342 62

## APPENDIX B.—No. 1—Details of Excise Expenditures for the Year ended March, 31, 1911—Continued.

To whom paid.	Service.	DEDUCTIONS FOR			Amounts paid.	Total amounts paid.
		Superannuation.	Retirement.	Guarantee.		
		¢	cts.	¢	cts.	¢
	<i>Pictou.</i>					
Fraser, P.	Salary as Collector for the year	25 94			1,270 43	
McDonald, A. J.	Deputy Collector Class "B" for the year		42 52	3 60	804 60	
Carroll, F. P.	3rd Class Excise-man for the year		41 21	2 88	837 88	
	Salaries	25 94	86 73	9 36	2,912 91	
	Contingencies				443 86	3,356 77
	<i>Charlottetown.</i>					
Nash, S. C.	Salary as Collector for the year			3 60	1,496 40	
Moore, T.	Deputy Collector Class "B" for the year			2 88	997 08	
	Salaries			6 48	2,493 48	
	Contingencies				822 61	3,316 09
	<i>Winnipeg.</i>					
Gosnell, T. S.	Salary as Collector for the year	49 94			2,412 83	
Code, A.	Deputy Collector Class "A" for the year	35 41		7 20	1,735 93	
Long, W. H. A.	Accountant for the year		74 79	4 32	1,417 14	
Hawkins, W. L.	"	25 45		4 32	1,215 23	
Verner, T. H.	1st Class Excise-man for the year	44 51		2 88	1,227 58	
Larivière, A. C.	1st Deputy Collector Class "B" for the year	44 54		2 88	1,042 11	
Sparling, J. W.	"		54 05	2 88	1,184 64	
Earl, R. W.	2nd Class Excise-man for the year		62 42	2 88	880 64	
Hammond, T. W.	3rd " "		38 46	2 88	728 64	
Morris, F. H.	3rd Deputy Collector Class "B" for the year		46 47	2 88	880 64	
Forsyth, D. J.	3rd Class Excise-man from May 1 to Sept. 18, 1910. Resigned.		19 92	2 88	377 17	
McNiven, D. J.	App'd Probationary Excise-man July 1 to Nov. 30 1910, and 3rd Class from Dec. 1, 1910 to March 31, 1911.		13 20	1 09	251 99	
Parkin, M. R.	"					
Nicholl, F. A.	App'd Probationary Excise-man Sept. 18, 1910 to March 17, 1911 and 3rd Class from March 18 to March 31, 1911		23 73	1 44	449 83	
Currie, W. W.	"		16 27	1 44	307 71	

McArthur, G. H.	"	Special Class Excise-man from November 1, 1910 to March 31, 1911. Brought from Windsor.	33 30	1 80	631 55
Greig, W. G.	"	App't'd Prob'y. Excise-man from Dec. 1, 1910 to March 31, 1911.	10 00	0 48	189 52
Ivey, W. J.	"	"	10 00	0 48	189 52
		Salaries.	199 88	49 21	16,410 25
		Contingencies			4,316 04
					20,726 29
		<i>Calgary.</i>			
Sancier, X.	"	Salary as Collector for the year	36 68		
Fletcher, R. W.	"	Deputy Collector Class "A" for the year.			
Withenshaw, E.	"	" " " " " " " "			
Bruce, G. B.	"	3rd Class Excise-man for the year.			
Shaw, F. D.	"	Deputy Collector Class "B" from April 1 to June 30, 1910. Resigned July 1, 1910.			
Walker, J. H.	"	" " " " " " " "			
Wood, Chas. T.	"	" " " " " " " "			
Walker, J. H.	"	" " " " " " " "			
Fidler, H.	"	App't'd Probationary Excise-man from Dec. 1, 1910 to March 31, 1911.			
		Salaries	36 68	20 88	6,064 06
		Contingencies			4,806 42
					10,870 48
		<i>Moose-Jaw.</i>			
Conklin, W. M.	"	Salary as Collector for the year.			
Gondie, D. A.	"	Deputy Collector Class "B" for the year.			
Ross, H. E.	"	" " " " " " " "			
Jameson, S. B.	"	" " " " " " " "			
Pitman, Chas.	"	App't'd Collector Class "B" from Nov. 15, 1910 to March 31, 1911.			
		Salaries.	82 69	3 60	1,568 65
		Contingencies	44 99	3 60	851 41
			11 92	2 88	385 20
			11 92	2 88	385 20
			15 10	1 36	285 73
		Salaries.	142 78	14 32	3,476 19
		Contingencies			2,290 60
			23 81		
					5,636 79
		<i>Vancouver.</i>			
Parkinson, E. B.	"	Salary as Collector for the year.			
Power, J. F.	"	Deputy Collector Class "A" for the year.			
Allen, G. A.	"	Special Class Excise-man for the year.			
McCraney, H. P.	"	Deputy Collector Class "B" from April 1 to Sept. 15, 1910. Resigned.			
Seulan, T. J.	"	" " " " " " " "			
Wolfenden, W.	"	" " " " " " " "			
Thorburn, Jas.	"	Accountant for the year.			
McCutcheon, H.	"	Deputy Collector Class "B" for the year.			
Howell, T.	"	" " " " " " " "			
Deeley, F.	"	1st Class Excise-man for the year.			
Reay, R. S.	"	Deputy Collector Class "B" for the year.			







## SESSIONAL PAPER No. 12

APPENDIX B—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1911—*Continued.*

To whom paid.	Service.	DEDUCTIONS FOR			Amounts paid.	Total amounts paid.
		Superannuation.	Retirement.	Guarantee		
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
	DISTRICT INSPECTORS.					
	<i>Ontario.</i>					
Dingman, N. J...	Salary for the year.....	51 97		9 00	2,539 03	3,543 47
	Contingencies.....				1,004 44	
Stratton, W. C...	Salary for the year.....			9 00	2,591 02	2,809 96
	Contingencies.....				218 94	
Kenning, J. H...	Salary from April 1 to April 30, 1910				208 33	496 53
	Superannuated May 25, 1910.....				283 25	
	Contingencies.....					
	<i>Quebec.</i>					
Toupin, J. A.....	Salary for the year.....	51 97		9 00	2,539 03	2,831 83
	Contingencies.....				292 80	
Rinfret, C. I.....	Salary for the year.....		131 08	9 00	2,460 92	2,861 82
	Contingencies.....				400 90	
	<i>New Brunswick.</i>					
Burke, T.....	Salary for the year.....	51 97		9 00	2,539 03	2,978 18
	Contingencies.....				439 15	
	<i>Manitoba.</i>					
Barrett, J. K.....	Salary for the year.....			9 00	2,591 02	4,336 47
	Contingencies.....				1,745 45	
	<i>British Columbia.</i>					
Miller, J. E....	Salary for the year.....	51 97		9 00	2,539 03	4,422
	Contingencies.....				1,883 71	
	<i>Inspector of Tobacco Factories.</i>					
Lawlor, H.....	Salary for the year.....	57 97			2,842 03	3,126 8
	Contingencies.....				284 55	
	<i>Inspector of Bonded Factories.</i>					
Stratton, W. C....	Salary for the year.....				300 00	363 01
	Contingencies.....				63 01	
	<i>Inspector of Breweries and Malt Houses.</i>					
Barrett, J. K.....	Salary for the year.....				300 00	955 10
	Contingencies.....				655 10	
	<i>Inspector of Distilleries.</i>					
Kenning, J. H....	Salary for the year.....					25 00

2 GEORGE V., A. 1912

APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1911—*Continued.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	<i>General Contingencies.</i>	\$ cts.	\$ cts.
American Bank Note Co.	To pay for stamps and label supplied...	71,300 92	
British American Bank Note Co.	To pay for bottling labels.....	7,591 50	
Oertling, L.	Thermometers and locks.....	1,344 38	
Thornton & Truman	500 brass seal locks and general repairs.....	564 10	
Taylor, G. W.	Removal expenses deposited as refund on account of departmental contingencies.....	497 62	
Collector of Customs	Customs duties paid on imported goods.....	264 25	
Pritchard & Andrews Co., Ltd., The.	Rubber, pads, rollers, daters, &c. and repairs.....	161 86	
Butterworth & Co.	12 tobacco ovens.....	126 00	
Edwards, W. C. & Co., Ltd.	Lumber and cartage.....	33 70	
Gallenkamp, A. & Co.	3 doz. burettes and 6 doz. pipettes.....	52 96	
Rochester, J. L.	2 doz. glass spirit lamps.....	6 00	
Canadian Rubber Co.	2 doz. rubber and glass corks.....	12 00	
McGrath & Co.	24 boxes.....	21 60	
Gutta Percha Manufacturing Co.	150 feet gum tubing.....	27 06	
Bélair, H. A.	Service as stenographer, evidence in <i>re</i> Rex <i>vs.</i> Abraham Rudnox, seiz. No. 1211.....	16 00	
Lyman, Ltd.	Iron burettes, stands, clamps, &c.....	64 19	
Eimer & Amend.	7 hydrometers.....	11 29	
Gerald, C.	Travelling expenses.....	63 40	
Gerald, W. H.	".....	573 50	
Canadian Express Co.	Express charges.....	67 76	
Dominion Express Co.	".....	53 36	
Whitehead, Jane.	Cleaning Storerooms, &c. for 11 months.....	143 00	
Scales, Charlotte.	" " " 1 ".....	13 00	
Watt, Charles	1 copper drying tank, &c.....	17 90	
Mahoney, J.	Cartage.....	5 00	
Postmaster, Ottawa.	Stamps.....	10 00	
Higerty, C.	Brokers' charge on customs entries.....	3 50	
Bryson, Graham & Co.	Towels.....	2 75	
Himsworth, W.	Sundries for department.....	70	
	Total general contingencies.....		83,049 24
	<i>Law Costs.</i>		
Connell, D. O.	Law costs in <i>re</i> Rex <i>vs.</i> L. Sprey. N. Pearson & R. Bell.....	56 00	
Walsh, J. C.	Law costs in <i>re</i> Rex <i>vs.</i> W. D. Tremblay, O. Stott & Brousseau.....	66 00	
Hart & McHarg.	Law costs in <i>re</i> Rex <i>vs.</i> J. A. Stevenson.....	20 00	
Chisholm, Jos.	" " P. Ziaud & P. Zaffa.....	30 00	
	Total law costs.....		172 00
	<i>Provisional Allowance paid during the year.</i>		
Gosnell, T. S.	To pay Barrett, J. P.....	124 92	
Winnipeg.	" Forsyth, D.....	124 92	
	" Hammond, T. W.....	124 92	
	" Morris, T. H.....	124 92	
	" Nicholl, F. A.....	124 92	
	" Ivey, W. J.....	124 92	
	" Ashton, Henry.....	124 92	
	" Lévesque, J. T.....	119 84	
	" Parkin, M. R.....	47 80	
	" Currie, W.....	65 92	
	" Davis, T. J.....	52 05	

## SESSIONAL PAPER No. 12

APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1911—*Continued.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	<i>Provisional Allowance paid during the year—Con.</i>	\$ cts.	\$ cts.
	To pay Greig, W. G. . . . .	52 45	
	" Sparling, J. . . . .	49 92	
	" Fortune, R. . . . .	8 33	
Saucier, F. X . . . . .	" Bruce, G. B. . . . .	125 00	
Calgary.	" Dalgetty, J. . . . .	125 00	
	" Davies, W. E. . . . .	130 04	
	" Fidler, H. . . . .	112 48	
	" Libbey, J. J. . . . .	75 00	
	" Walker, J. H. . . . .	75 80	
	" Gray, W. B. . . . .	50 00	
	" Schofield, J. H. . . . .	50 00	
Conklin, W. M. . . . .	" Pitman, Chas. . . . .	46 52	
Moose-Jaw.	" Ross, H. G. . . . .	125 00	
	" Earle, R. R. . . . .	4 17	
	" Goudie, D. A. . . . .	100 04	
	" Chisholm, F. W. . . . .	50 00	
	" Davies, Dr. D. R. . . . .	50 00	
	" Pantan, A. M. . . . .	70 83	
	" Lowe, W. C. . . . .	28 71	
Parkinson, E. B. . . . .	" Gibson, J. N. S. . . . .	124 92	
Vancouver.	" Gray, R. S. . . . .	125 04	
	" Morgan, E. J. . . . .	124 92	
	" McDonald, G. . . . .	124 92	
	" Carmichael, D. . . . .	99 96	
	" Wolfenden, W. . . . .	75 00	
	" Delahay, W. . . . .	50 04	
	" Deely, F. K. . . . .	50 04	
	" Thorburn, J. . . . .	50 04	
	" Bailey, E. R. . . . .	50 04	
	" Lopatecki, E. S. . . . .	11 46	
	" Duncan, J. T. . . . .	20 85	
	" McCraney, H. P. . . . .	22 94	
	" Parsons, C. H. . . . .	41 70	
	" Simpson, Geo. . . . .	32 93	
	" Sutherland, W. . . . .	28 71	
Jones, R. . . . .	" Hall, F. J. . . . .	125 00	
Victoria.	" Huggett, A. P. . . . .	125 00	
	" Shaw, J. . . . .	75 00	
	" Johnston, G. . . . .	50 00	
	" Clements, R. S. . . . .	30 73	
	Total provisional allowance. . . . .	3,928 58	
Laframboise, L. . . . .	Technical translation. . . . .	3 16	

2 GEORGE V., A. 1912

APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1911—*Continued.*

To whom paid.	Place of Residence.	Service.	Amounts paid.	Total Amounts paid.
			\$ cts.	\$ cts.
<i>Commission to Customs officers.</i>				
White, H. . . . .	Cranbrook, B.C. . . . .	From April 1, 1909 to March 31, 1911 . . .	792 80	
Fraser, R. . . . .	Trenton, Ont. . . . .	" 1910 " " " . . .	346 40	
Porter, N. . . . .	Simcoe, Ont. . . . .	" " " " " . . .	346 40	
Allison, J. B. . . . .	Napanee, Ont. . . . .	" " " " " . . .	146 40	
MacLennan, F. J. . . . .	Cornwall, Ont. . . . .	" " " " " . . .	346 40	
Raymond, A. . . . .	Valleyfield, Que. . . . .	" " " " " . . .	446 40	
Blair, Alexander . . . . .	Chicoutimi, Que. . . . .	" " " " " . . .	346 40	
Kavanagh, A. J. . . . .	Gaspé, Que. . . . .	" " " " " . . .	57 07	
Ratchford, C. E. . . . .	Amherst, N.S. . . . .	" " " " " . . .	11 03	
Marsh, R. J. F. . . . .	Fort Frances, Ont. . . . .	" " " " " . . .	129 88	
Jackson, H. B. . . . .	Rainy River, Ont. . . . .	" " " " " . . .	346 40	
McMillan, D. N. . . . .	Morden, Man. . . . .	" " " " " . . .	246 40	
Gilhuly, R. H. . . . .	Selkirk, Man. . . . .	" " " " " . . .	146 40	
Wilson, H. E. . . . .	St. Mary's, Ont. . . . .	From August 1, 1910 to March 31, 1911 . . .	11 11	
Brimacombe, M. A. . . . .	Vermillion, Alta. . . . .	From Sept. 10, 1910 to March 31, 1911 . . .	43 83	
Douglass, H. . . . .	Banff, Alta. . . . .	Guarantee from Apr. 1, '10 to Mar. 31, '11	3 60	
English, J. J. . . . .	Maple Creek, Sask. . . . .	" " " " " . . .	3 60	
Gilhuly, R. H. . . . .	Selkirk, Man. . . . .	" " " " " . . .	3 60	
Mather, T. J. . . . .	Gretna, Man. . . . .	" " " " " . . .	3 60	
McMillan, D. N. . . . .	Morden, Man. . . . .	" " " " " . . .	3 60	
White, H. . . . .	Cranbrook, B.C. . . . .	" " " " " . . .	3 60	
Martel, L. . . . .	Thetford Mines, Que. . . . .	" " " " " . . .	3 60	
Raymond, A. . . . .	Valleyfield, Que. . . . .	" " " " " . . .	3 60	
Anderson, J. J. . . . .	Sacville, N.B. . . . .	" " " " " . . .	3 60	
Boyd, A. . . . .	Antigonish, N.S. . . . .	" " " " " . . .	3 60	
Clark, A. J. . . . .	Campobello, 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	
Nadeau, M. . . . .	Clair, N.B. . . . .	" " " " " . . .	3 60	
Park, W. A. . . . .	New Castle, N.B. . . . .	" " " " " . . .	3 60	
Ratchford, C. E. . . . .	Amherst, N.S. . . . .	" " " " " . . .	3 60	
Veniot, P. J. . . . .	Bathurst, N.B. . . . .	" " " " " . . .	3 60	
Watt, G. . . . .	Chatham, N.B. . . . .	" " " " " . . .	3 60	
Brown, G. . . . .	Meaford, Ont. . . . .	" " " " " . . .	3 60	
Daly, James A. . . . .	Cambridge, Ont. . . . .	" " " " " . . .	3 60	
Jackson, H. B. . . . .	Rainy River, Ont. . . . .	" " " " " . . .	3 60	
Lownsbrough, W. . . . .	Lindsay, Ont. . . . .	" " " " " . . .	3 60	
Marsh, R. J. F. . . . .	Fort Frances, Ont. . . . .	" " " " " . . .	3 60	
McPherson, M. J. . . . .	Kincardine, Ont. . . . .	" " " " " . . .	3 60	
Porter, N. . . . .	Simcoe, Ont. . . . .	" " " " " . . .	3 60	
Tyson, A. M. . . . .	Warton, Ont. . . . .	" " " " " . . .	3 60	
Beauchesne, P. C. . . . .	Paspébiac, Que. . . . .	" " " " " . . .	3 60	
Blair, A. . . . .	Chicoutimi, Que. . . . .	" " " " " . . .	3 60	
Kavanagh, A. J. . . . .	Gaspé, Que. . . . .	" " " " " . . .	3 60	
Allison, J. B. . . . .	Napanee, Ont. . . . .	" " " " " . . .	3 60	
Britton, W. H. . . . .	Gananoque, Ont. . . . .	" " " " " . . .	3 60	
Fraser, R. . . . .	Trenton, Ont. . . . .	" " " " " . . .	3 60	
Ross, W. T. . . . .	Pictou, Ont. . . . .	" " " " " . . .	3 60	
Valleau, A. S. . . . .	Deseronto, Ont. . . . .	" " " " " . . .	3 60	
MacLennan, F. J. . . . .	Cornwall, Ont. . . . .	" " " " " . . .	3 60	
Campbell, J. W. . . . .	York Factory, Man. . . . .	Apr. 1, '10 to Jan. 31, '19	3 00	
Campbell, Geo. . . . .	Moyie City, B.C. . . . .	" " " " " . . .	3 00	
Gardner, W. . . . .	Fort McLeod, Alta. . . . .	" " " " " . . .	3 00	
McLean, W. J. . . . .	Medicine Hat, Alta. . . . .	" " " " " . . .	1 50	
Brimacombe, M. A. . . . .	Vermillion, Alta. . . . .	Sept. 10, '10 to Mar. 31, '11	2 00	
Munro, H. P. . . . .	Taber, Alta. . . . .	Mar. 20, '11 " " " . . .	10	
Binney, J. P. . . . .	Moncton, N.B. . . . .	Apr. 1, '10 to Jan. 31, '11	3 00	
Street, A. F. . . . .	Fredericton, N.B. . . . .	" " " " " . . .	3 00	

## SESSIONAL PAPER No. 12

APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1911—*Continued.*

To whom paid.	Place of Residence.	Service.	Amounts paid.	Total Amounts paid.
		<i>Commission to Customs officers.</i>	\$ cts.	\$ cts.
Stanley, T. D. ....	St. Mary's, Ont. ....	Guarantee from Apr. 1, '10 to July 31, '10	1 20	
Watson, G. ....	Collingwood, Ont. ....	" " Jan. 31, '11	3 00	
Wilson, H. E. ....	St. Mary's, Ont. ....	" Aug. 1, '10 to Mar. 31, '11	2 40	
McDonald, B. R. ....	Prince Rupert, B.C. ....	" Sept. 16, '10 "	1 95	
Milne, A. ....	Moose Factory, Ont. ....	" Apr. 1, '10 to Jan. 31, '11	3 00	
		Total Commission to Customs Officers .....		3,923 07

2 GEORGE V., A. 1912

APPENDIX B.—No. 1.—Details of Excise Expenditure for the Year ended March 31, 1911—*Continued.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	<i>Duty-pay.</i>	\$ cts.	\$ <sup>MM</sup> cts.
Bouteiller, G. A. ....	From April 1, 1910 to March 31, 1911 .....	237 50	
McArthur, G. H. ....	" .....	187 50	
Brennan, J. ....	" .....	137 50	
Brain, A. F. ....	" .....	158 33	
Falconer, J. E. ....	" .....	137 50	
Adam, A. R. ....	" .....	137 50	
Thomas, Robt. ....	" .....	137 50	
Cummiford, F. D. ....	" .....	137 50	
Keogh, P. M. ....	" .....	137 50	
Bayard, G. A. ....	" .....	137 50	
Mooney, G. B. ....	" .....	137 50	
Bergeron, R. J. ....	" .....	137 50	
Gerald, Charles. ....	" .....	237 50	
Jamieson, R. C. ....	" .....	237 50	
Hurst, L. B. ....	" .....	187 50	
O'Leary, T. J. ....	" .....	137 50	
Abbott, H. F. ....	" .....	137 50	
Shorey, A. B. ....	" .....	119 31	
Doyle, B. J. ....	" .....	137 50	
Jones, A. ....	" .....	137 50	
Eakins, G. G. ....	" .....	104 16	
Dawson, Wm. ....	" .....	237 50	
Martin, N. ....	" .....	137 50	
Woodward, G. W. ....	" .....	137 50	
Thomas, F. W. ....	" .....	137 50	
Egener, A. ....	" .....	137 50	
Howie, A. ....	" .....	150 00	
Baby, W. A. D. ....	" .....	187 50	
O'Brien, J. F. ....	" .....	168 75	
Boyd, J. F. ....	" .....	110 35	
Elliott, W. J. ....	" .....	126 83	
McFee, A. C. ....	" .....	137 50	
Wilson, H. R. ....	" .....	137 50	
Lally, J. E. ....	" .....	137 50	
Gerald, W. H. ....	" .....	237 50	
McPherson, E. A. ....	" .....	187 50	
Keeler, G. S. ....	" .....	137 50	
Byrne, W. P. ....	" .....	137 50	
Bissell, C. H. ....	" .....	137 50	
Allen, G. A. ....	" .....	237 50	
Chilver, F. W. ....	" .....	187 50	
Gray, R. S. ....	" .....	137 50	
Mason, F. ....	" .....	137 50	
Goodman, A. W. ....	" .....	137 50	
Ralston, T. ....	" .....	137 50	
Olivier, H. ....	" .....	137 50	
Denis, J. L. ....	" .....	134 68	
Macdonald, A. B. ....	" .....	187 50	
Bernard, N. J. O. ....	" .....	137 50	
Dumaine, J. D. ....	" .....	137 50	
Gow, John E. ....	" .....	237 50	
Murray, D. ....	" .....	187 50	
Bouchard, J. ....	" .....	137 50	
Bergeron, E. L. ....	" .....	113 17	
Filteau, J. R. ....	" .....	101 21	
Walsh, D. J. ....	" .....	237 50	
Milot, J. F. ....	" .....	114 92	
Davidson, James. ....	" .....	157 50	
Desaulniers, J. E. ....	" .....	200 00	
Amor, W. ....	" .....	200 00	
Dick, J. W. ....	" .....	200 00	
Coleman, J. J. ....	" .....	175 00	
Berry, H. L. ....	" .....	175 00	
Johnson, J. J. ....	" .....	100 00	
Bousquet, J. O. ....	" .....	100 00	



## SESSIONAL PAPER No. 12

APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1911—*Continued.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
		\$ cts.	\$ cts.
	<i>Duty-pay—Concluded.</i>		
Marin, L. H. ....	From April 1, 1910 to March 31, 1911.....	100 00	
Corriveau, O. ....	" " " " .....	100 00	
Quinn, J. D. ....	" " " " .....	150 00	
Gauvin, E. ....	" " " " .....	100 00	
Coulter, A. ....	From April 1 to Oct. 12, 1910 .....	67 34	
Millier, E. ....	" Oct. 1 to Nov. 6, 1910, and from Nov. 28, 1910 to March 31, 1911 .....	141 25	
Mulroney, G. ....	" April 1, 1910 to Feb. 9, 1911 .....	64 51	
Morris, T. H. ....	" Oct. 1, 1910 to March 31, 1911 .....	50 00	
Poitras, W. ....	" Feb. 10, 1911 " .....	10 49	
Davis, T. J. ....	" Dec. 1, 1910 " .....	33 33	
Dowling, D. J. ....	" March 10 " .....	5 77	
Martineau, E. J. ....	" Feb. 5 to March 7 and from April 1 to Oct. 22, 1910 .....	80 40	
Young, R. E. ....	" April 1 to April 25, 1910 and from June 22, 1910 to March 31, 1911 .....	168 90	
Hicks, W. H. ....	" April 26 to June 21, 1910 .....	31 10	
Cahill, W. J. ....	" Aug. 9, 1910 to March 31, 1911 .....	102 01	
Graham, W. T. ....	" April 1 to April 23, 1910 and from Oct. 13, 1910 to March 31, 1911 .....	77 10	
Walsh, W. H. ....	" April 26, 1910 to March 31, 1911.....	93 06	
Young, J. J. ....	" August 17, 1910 to " .....	62 36	
Standish, J. G. ....	" April 1 to May 12, 1910 and from Aug. 13, 1910 to March 31, 1911 .....	187 50	
Brown, W. J. ....	" April 8, 1910 to March 31, 1911 .....	197 03	
Blyth, A. ....	" April 1, to July 31, 1910 and from March 16 to March 31, 1911 .....	51 64	
Sprague, W. F. ....	" April 1 to June 4, 1910, and from June 20 to July 19, 1910 and from Aug. 8, 1910 to Mar. 31, 1911 .....	125 81	
Snowden, J. W. ....	" April 1 to Aug. 11, 1910 and from Sept. 1, 1910 to Mar. 31, 1911 .....	179 44	
Evans, G. T. ....	" Aug. 12 to Aug. 31, 1910 .....	8 06	
Daveluy, J. P. ....	" April 1 to April 16, 1910 and from Nov. 7 to Nov. 27, 1910 .....	15 42	
Longtin, H. ....	" April 17 to Aug. 31, 1910 .....	55 83	
Normandin, G. ....	" Sept. 1, 1910 to Mar. 31, 1911 .....	87 50	
Niven, T. D. ....	" Feb. 20 to Mar. 31, 1911 .....	11 01	
Verner, T. H. ....	" Nov. 1, 1910 to Mar. 31, 1911 .....	41 67	
Gariépy, L. N. ....	" Nov. 17, 1910 to Mar. 31, 1911 .....	37 20	
Sutherland, W. ....	" Jan. 9 to Mar. 31, 1911 .....	22 85	
Côté, A. R. ....	" Oct. 24, 1910 to Mar. 31, 1911 .....	43 82	
Monforton, E. ....	" Oct. 1, 1910 to Mar. 31, 1911 .....	50 00	
Fairley, W. ....	" April 1, 1910 to Mar. 31, 1911, (less 3 weeks) ..	94 23	
	Total duty-pay .....		12,804 89
	Grand total .....		596,241 70
	ADD—Printing .....	4,369 82	
	Stationery .....	1,776 83	
	Lithographing and Engraving .....	26 00	6,172 65
	Grand total .....		602,414 35
	ADD—Balances due to Collectors April 1, 1910 .....	49 08	
	" by " March 31, 1911 .....	343 98	393 06
			602,807 41
	LESS—Balances due by Collectors April 1, 1910 .....	343 98	
	" to " " " .....	49 08	393 06
	Actual disbursements agreeing with Statement No. 4, page 12 .....		602,414 35

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.W. J. GERALD,  
Deputy Minister.

2 GEORGE V., A. 1912

## APPENDIX B.—No. 2. — Distribution of Seizures for the Year ended March 31, 1911.

Divisions.	To whom paid.	Service.	Amounts paid.		Total Amounts paid
			\$	cts.	
Hamilton .....	Miller, W. F. ....	To pay informer $\frac{1}{2}$ penalty on seizure No. 48	75	00	75 00
Peterborough...	Rudkins, W. ....	" " 25	50	00	
Toronto.....	Frankland, H. R. .	" " 424	100	00	187 50
		" " 425	12	50	
		" " 426	25	00	
		" " 427	50	00	
	Elliott, T. H. ....	For his share of seizure No. 424	100	00	12 50
	Frankland, H. R. .	" " 425	12	50	
Montreal.....	Caven, W. ....	To pay informer $\frac{1}{2}$ penalty on seizure No. 1200	200	00	572 50
		" " 1201	12	50	
		" " 1203	12	50	
		" " 1204	12	50	
		" " 1207	25	00	
		" " 1208	12	50	
		" " 1210	25	00	
		" " 1211	50	00	
		" " 1212	50	00	
		" " 1213	5	00	
		" " 1214	12	50	
		" " 1216	100	00	
		" " 1217	25	00	
		" " 1219	25	00	
		" " 1221	5	00	
	Comte, J. ....	For his share of seizure No. 1177	24	75	
		" " " 1181	40		
		" " " 1189	1	80	
		" " " 1191	2	00	
		" " " 1194	6	49	
		" " " 1195	10	01	
		" " " 1196	26	54	
		" " " 1201	7	35	
		" " " 1202	26	55	
		" " " 1203	6	12	
		" " " 1205	77	70	
		" " " 1207	44	62	
		" " " 1208	5	25	
		" " " 1210	15	70	
	Brabant, J.B.G.N. .	" " " 1177	24	75	255 28
		" " " 1179	2	00	
		" " " 1181	40		
		" " " 1187	10	50	
		" " " 1189	1	80	
		" " " 1191	2	00	
		" " " 1194	6	49	
		" " " 1195	10	02	
		" " " 1196	26	54	
		" " " 1210	15	70	
	Gariépy, L. N. ....	" " " 1193	6	25	18 75
	Maguire, L. J. ....	" " " 1198	12	50	
		" " " 1204			165 01
	Normandin, G. ....	" " " 1199	2	88	
		" " " 1200	162	13	165 01
	Lane, T. M. ....	" " " 1199	2	88	
		" " " 1200	162	13	33 90
	Paquette, E. ....	" " " 1201	7	35	
		" " " 1202	26	55	

SESSIONAL PAPER No. 12

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

Divisions.	To whom paid.	Service.	Amounts paid.		Total Amounts paid.
			\$	cts.	\$ cts.
Montreal.....	Provost, J.....	For his share of seizure No. 1203 .....			6 13
	Lesperance, J. A....	" " " 1207 .....			44 63
	Costigan, J. J....	" " " 1208 .....			5 25
Quebec.....	Bourget, O.....	" " " 606.....	49	50	
		" " " 609.....	1	78	
		" " " 610.....	1	78	
		" " " 611.....	1	78	
		" " " 612.....	1	78	
		" " " 613.....	16	05	
	Trudel, Ed.....	" " " 606.....	49	50	72 67
		" " " 609.....	1	79	
		" " " 610.....	1	78	
		" " " 611.....	1	78	
		" " " 612.....	1	78	
		" " " 613.....	16	05	
					72 68
St. John ...	Arcand, D.....	To pay informer $\frac{1}{2}$ penalty on seizure No. 617 .....			6 25
	Belyea, T. H.....	" " " 167.....	25	00	
		" " " 170.....	25	00	
		" " " 171.....	25	00	
		" " " 172.....	12	50	
		" " " 173.....	25	00	
		" " " 174.....	25	00	
		" " " 175.....	10	00	
		" " " 176.....	5	00	
		" " " 177.....	5	00	
					157 50
	Kelly, J. T.....	For his share of seizure No. 164.....	21	50	
		" " " 166.....	21	50	
		" " " 167.....	22	50	
		" " " 170.....	21	50	
		" " " 171.....	22	00	
					109 00
Pictou.....	Fraser, P.....	" " " 119.....			34 00
Vancouver .....	Thorburn, J.....	" " " 55.....	28	30	
		" " " 56.....	28	55	
					56 85
	Parkinson, E. B....	To pay informer $\frac{1}{2}$ penalty on seizure, No. 56 .....			25 00
		Total.....			2,331 86

## RECAPITULATION.

Ontario .....	\$ 425 00
Quebec.....	1,524 51
New Brunswick..	266 50
Nova Scotia.....	34 00
British Columbia .....	31 85
	<u>\$2,331 86</u>

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

W. J. GERALD,  
*Deputy Minister.*

## APPENDIX B—Continued.

No. 3.—DETAILS of Sundry Minor Expenditures for the Year ended March 31, 1911.

To whom paid.	Service.	Amounts paid.	Total Amounts paid.
	<i>The International Electro-Technical Commission</i>	\$ cts.	\$ cts.
The President of the I. E. T. C.....	Annual contribution towards the International Electro-Technical Commission.....		244 44
	<i>The Export of Electric Power.</i>		
Higman, O.....	Travelling expenses.....	158 55	
Lambe, A. B. ....	General contingencies.....	115 00	273 55
	<i>Proprietary or Patent Medicine Act.</i>		
Rudoff, Professor R.....	For consultation as expert.....	200 00	
Blakader, Dr. A. D.....	" " " ".....	200 00	
Hinsworth, W. ....	Incidental travelling expenses.....	2 40	
Pritchard & Andrews, Ltd., The.....	1 stamp.....	45	
Walsh, J. C.....	Law costs Rex vs. Lyons infraction of P. M. Act.	60 00	
Laframboise, Louis.....	Special translation.....	9 17	
	Printing.....	76 45	548 47
	Grand total of sundry minor expenditures agreeing with statement No. 10, page 18.....		1,066 46

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

W. J. GERALD,  
*Deputy Minister.*

SESSIONAL PAPER No. 12

APPENDIX B.—*Continued.*

No. 4.—DETAILS of Adulteration of Food Expenditures for the Year ended March 31, 1911.

To whom paid.	Service.	Deductions for Superan- nation.	Guarantee.	Amounts paid.	Total Amounts paid.
	<i>Adulteration of Food.</i>	\$ cts.	\$ cts.	\$ cts.	\$ cts.
McGill, A., for the Ottawa Laboratory.....	Travelling expenses.....			438 25	
	Sundries for laboratory.....			2,911 41	
	Rent for laboratory.....			266 67	
Hogan, Jas. Kingston, Ont..	Salary as Food Inspector for the year.....		1 08	198 92	
Talbot, J., London, Ont. ....	Salary as Food Inspector for the year.....		1 08	198 92	
Hinchey, E., Ottawa & Hull.	Salary as Food Inspector for the year.....		1 08	198 92	
Kidd, T., Seaforth, Ont. ....	Salary as Food Inspector for the year.....		1 08	498 92	
Dager, H. J., Toronto, Ont..	Salary as Food Inspector for the year.....		1 08	198 92	
Costigan, J. J., Montreal, Q.	Salary as Food Inspector for the year.....	7 00	1 08	341 92	
Béland, F. X. W. E., Que...	Salary as Food Inspector for the year.....		1 08	298 92	
Rouleau, J. C., St. Hyacin- the, Que.....	Salary as Food Inspector for the year.....		1 08	198 92	
Ferguson, J. C., St. John, N.B.	Salary as Food Inspector for the year.....	4 00	1 08	194 92	
Wagh, R. J., Halifax, N.S.	Salary as Food Inspector for the year.....		1 08	348 92	
Moore, T., Charlottetown, P. E.I.....	Salary as Food Inspector for the year.....		1 08	198 92	
Larivière, A. C., Winnipeg, Man.....	Salary as Food Inspector for the year.....		1 08	198 92	
Fletcher, R. W. Calgary, Alta.	Salary as Food Inspector for the year.....		1 08	198 92	
Power, J. F., Vancouver, B.C.	Salary as Food Inspector for the year.....		1 08	198 92	
O'Sullivan, D., Victoria, B.C.	Salary as Food Inspector for the year.....		1 08	198 92	
Parker, T., Nelson, B.C. ....	Salary as Food Inspector from February 11 to March 31, 1911.		14	27 23	
		11 00	16 34	.....	7,316 36

## APPENDIX B.—Continued.

## No. 4—DETAILS of Adulteration of Food Expenditures for the Year ended March 31, 1911.—Continued.

To whom paid.	Service.	Amounts paid.	Total Amounts paid.
	ADULTERATION OF FOOD.	\$ cts.	\$ cts.
	<i>Contingencies.</i>		
Hogan, James.....	Travelling expenses and purchases of samples .....	240 48	
Talbot, J. ....	" " .....	201 21	
Rickey, J. A. ....	" " .....	251 67	
Kidd, Thomas.....	" " .....	259 18	
Dager, H. J. ....	" " .....	240 03	
Costigan, J. J. ....	" " .....	392 83	
Béland, F. X. W. E. ....	" " .....	376 51	
Rouleau, J. C. ....	" " .....	293 82	
Ferguson, J. C. ....	" " .....	426 67	
Waugh, R. J. ....	" " .....	237 03	
Moore, T. ....	" " .....	170 39	
Larivière, A. C. ....	" " .....	216 42	
Fletcher, R. W. ....	" " .....	418 45	
Power, J. F. ....	" " .....	218 20	
O'Sullivan, D. ....	" " .....	253 55	
			4,196 44
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
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
Bowman, M. ....	Allowance under Act for retaining fees.....	200 00	
	" material used in analyses.....	100 00	
			300 00
Ellis, Dr. W. H. ....	Retaining fees as member of Food Standards of laboratory .....	200 00	
Eimer & Amend. ....	Supplies of apparatus &c. for laboratory.....	15 33	
Collector of Customs. ....	Custom House duties on imported goods.....	216 23	
Gooderham & Worts, Ltd.	Alcohol 23 33 p. gills. at \$1.44 and express charges.....	36 14	
Baird & Tatlock, Ltd. ....	Apparatus for laboratory.....	484 67	
Bausch & Lomb Opt. Co. ....	" .....	54 42	
Mowat J. McDonald.....	Law Cost in Rex vs. Jos. Cullen and Chs. Saunders .....	40 00	
Chisholm, Jas. ....	" S. Nicholson.....	20 00	
Du Tremblay, P. R. ....	" S. Nicholson & Bros., & N. Sirois .....	48 00	
" .....	" B. Ram.....	20 00	
Ross, D. ....	" C. G. Strange.....	10 00	
Lyle, R. F. ....	" Kenrick & Summers.....	10 28	
Gauthier, Z. ....	" A. Wollenberg & J. A. Gravel.....	33 00	
Tessier, J. A. ....	" W. Duhaime, H. Abram, S. Villette, .....		
	" M. Dupuis, N. Ferron, A. Tremblay .....		122 45
McKeown, W. R. ....	" F. R. Giroux.....	20 00	
Désy, J. A. ....	" W. Duhaime.....	4 10	
McLeod, A. ....	" Dycht Brocker Winkler .....	5 00	
Coburn, J. N. ....	" W. Roschette, H. Johnson, D. Pratt.....	32 10	
Lyman, Ltd. ....	Apparatus and Supplies for laboratory.....	496 95	
Pritchard & An brews			
Co. Ltd. ....	Stamps and repairs.....	10 50	
International Inst. Co. ....	Philosophical and scientific instruments for laboratory .....	407 85	



SESSIONAL PAPER No. 12

APPENDIX B.—*Continued.*No. 4.—DETAILS of Adulteration of Food Expenditures for the Year ended March 31  
1910—*Concluded.*

To whom paid.	Service.	Amounts paid.	Total Amounts paid.
		\$ cts.	\$ cts.
ADULTERATION OF FOOD— <i>Concluded.</i>			
<i>Contingencies.</i>			
Skinner, J. & Son.....	Supplies, &c., for laboratory.....		107 02
Musgrove, J. A.....	" ".....		61 20
Kemp, R. A.....	" ".....		820 99
Murphy, J. J.....	Materials and men's time for laboratory.....		104 95
McKinley & Northwood.	Plumbing work and materials for laboratory.....		1,150 50
Thornton & Truman....	Keys, &c. for laboratory.....		3 40
Workman, A. & Co., Ltd	Hardware supplies.....		8 94
Ellacot, J. A. L.....	Installing electric light, heaters, &c.....		223 94
Ottawa & N. Y. Ry. Co.	Freight charges.....		4 50
Postmaster of Ottawa....	Stamps.....		51 50
Higerty, Chs. ....	Commission for passing custom's entries.....		4 00
Mahoney, J.....	Cartage for the year.....		17 00
Canadian Express Co....	Express charges.....		1 75
Laframboise, Louis.....	Technical translation.....		50 94
			18,110 45
	Add—Printing.....	2,770 79	
	Stationery.....	359 74	
			3,130 53
	Total adulteration of food expenditures.....		21,240 98
	Add balance due by Inspector, March 31, 1911.....		50 00
			21,290 98
	Less balance due by Inspector, April 1, 1910.....		22 09
	Grand total agreeing with statement No. 6, page 15.....		\$21,268 89

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.W. J. GERALD,  
*Deputy Minister.*

## APPENDIX B.—Continued.

No. 5.—Details of Departmental Expenditures for the Year ended March 31, 1911.

Names.	Rank.		Period.	DEDUCTIONS FOR			Amounts paid.	Total Amounts paid.
	Division.	Sub-Division.		Superannuation.	Retirement.	Insurance.		
				\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Templeman, Hon. W.	Minister.		For the year.				7,000 00	
Gerald, W. J.	Dep. Minister.		"				5,000 00	
Himsworth, W.	Secretary	1 A	"				3,100 00	
Campeau, F.R.E.	Chief Account	1 A	"				2,800 00	
Valin, J. E.	Ass.-Account.	1 B	"				2,400 00	
Shaw, J. F.	Chief Statistical Clerk	1 B	"				2,400 00	
Doyon, J. A.	Clerk	1 B	"	48 00			2,352 00	
Westman, Thos.	"	1 B	"	42 00			2,058 00	
Quain, R.	"	2 A	"	59 33		61 92	1,865 95	
Taylor, Geo. W.	Ass.-Secretary	2 A	"	40 50			1,984 50	
Fowler, George.	Clerk	2 A	"				1,987 50	
Brodeur, P.E.S.	"	2 A	"		89 00		1,520 00	
Newby, F.	"	2 B	"				1,600 00	
Hughes, P. A.	"	2 B	"	56 00		55 92	1,488 08	
McCullough, A.	"	2 B	"	32 00			1,568 00	
Halliday, W. A.	"	2 B	"	56 00			1,544 00	
Roy, L. G.	"	2 B	"	56 00			1,544 00	
Ostiguy, L. R.	"	2 B	"		75 63		1,436 87	
Nicholas, B. C.	"	2 B	"		77 50		1,472 50	
"	Private Secretary		"				500 00	
Chateauvert, G. E.	Clerk	2 B	"		74 38		1,413 12	
Gervais, J. H.	"	2 B	"		73 13		1,389 37	
Lawless, E. M.	"	3 A	"		60 00		1,140 00	
Hagerty Bertha.	"	3 A	"		60 00		1,140 00	
Charbonneau, E.	"	3 A	"		60 00		1,140 00	
Doyle, E. F.	"	3 A	"		59 38		1,128 12	
Watson, V. M.	"	3 A	"		59 38		1,128 12	
Goodhue, M. L. E. B.	"	3 A	"		59 38		1,128 12	
Trumpour, G.	"	3 A	"		59 38		1,128 12	
Furlong, C. J.	"	3 A	"		54 38		1,033 12	
Beard, M. H.	"	3 A	"		54 38		1,033 12	
"	Asst. Private Secretary		"				100 00	
Griffith, M. L.	Clerk	3 A	"		53 13		1,009 37	
Yetts R. P.	"	3 A	"	31 50		54 48	814 02	
Lewis, Hugh B.	"	3 A	"		46 88		890 62	
Teevens, L. P.	"	3 A	"		45 00		855 00	
Allen, A. T.	"	3 A	"		45 00		855 00	
Lyon, Anna V.	"	3 A	"		46 88		890 62	
Robert, Arthur.	"	3 B	"		40 00		760 00	
Cantin, J. W.Z.	"	3 B	"		36 25		68 75	
Ekins, E. G.	"	3 B	"		40 00		760 00	
Bourgeois, E.	Messenger	Lower Grade	"		40 00		760 00	
Roy, Loranzo	"	"	"		36 25		688 75	
McGill, A.	Chief Analyst.	1 A	"	62 00			3,038 00	
Lemoine, A.	Analyst	2 B	"		66 25		1,258 75	
Valin, J. A. G.	"	2 B	"		66 25		1,258 75	
Forster, E. L.C.	"	2 B	"		71 25		1,353 75	
Forward, C. C.	"	2 B	"		71 25		1,353 75	
Kitto, Wm. V.	"	2	"		60 00		1,140 00	
Belisle, Emile	Clerk	3 A	"		60 00		1,140 00	
Rickey, J. A.	"	3 A	"		60 00	48 96	1,096 94	
Davidson, Edith	"	3 A	"		56 25		1,068 75	

## SESSIONAL PAPER No. 12

## APPENDIX B.—Continued.

No. 5.—Details of Departmental Expenditures for the Year ended March 31, 1911—Continued.

Names.		Rank.		Period.	DEDUCTIONS FOR			Amounts paid.	Total Amounts paid.
		Division.	Sub-Division.		Superannuation.	Retirement.	Insurance.		
					\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Wright, S. E...	Clerk... ..	3	A	For the year..	....	56 25	....	1,068 75	
MacFarlane, A. C.	" .....	3	A	From April 1 to Nov. 30, 1910.....	....	37 06	....	704 56	
Ladouceur, J...	" .....	3	A	For the year..	....	53 75	30 54	990 71	
Armstrong, W..	Superintendent of Met-hylated Spirit Manufacture.....	2	A	" ..	....	105 00	....	1,995 00	
Parent, F.....	Clerk.....	3	A	" ..	....	60 00	....	1,140 00	
Hagan, James..	Ware house man.....	Lower	Grade	" ..	....	45 00	....	855 00	
Popham, F. H..	Ware house man.....			" ..	....	40 00	....	760 00	
Higman, O.....	Chief Elect. Engin. and Insp. of Gas.			" ..	....	145 00	....	2,755 00	
Stiver, John L..	Clerk.....	2	B	" ..	....	55 00	....	1,045 00	
Evans, C. J....	" .....	3	A	" ..	....	36 25	20 52	1,048 23	
Cole, N. R. ....	" .....	3	A	" ..	....	51 25	....	973 75	
Mathews, E. D. K.	" .....	3	B	" ..	....	36 25	...	688 75	
McKell, M.E.F.	" .....	3	B	" ..	....	31 25	....	593 75	
Fyfe, James....	Chief Inspect. of Weights & Measures.	1	A	" ..	....	145 00	....	2,755 00	
Way, E. O. ....	Clerk.....	3	A	" ..	....	47 50	....	902 50	
Barbeau, L. ....	" .....	3	B	" ..	....	36 25	....	688 75	
Burgess, T. H..	Carpenter ....	Lower	Grade	" ..	....	45 00	....	855 00	
Totals...				483 63	2,893 37	267 34	....	100,022 28	

2 GEORGE V., A. 1912

APPENDIX B—*Continued.*No. 5.—DETAILS of Departmental Expenditures for the Year ended March 31,  
1911—*Continued.*

Names.	Services.	Amounts	Total
		paid.	amounts
		\$ cts.	\$ cts.
B. C. Nicholas .....	Travelling expenses.....	280 45	
Hon. W. Templeman.....	" .....	500 00	
W. J. Gerald .....	" .....	483 20	
J. E. Desrosiers.....	Salary as messenger from August 2, to Feb. 1, 1911.....	248 63	
G. N. W. Telegraph.....	Telegrams .....	139 15	
C. P. R. Telegraph.....	" .....	850 84	
Postmaster of Ottawa .....	Postage .....	11 00	
King's Printer.....	Printing .....	1,749 10	
" .....	Parliamentary publications .....	102 43	
" .....	Lithographing.....	170 80	
Controller of Stationery .....	Stationery and books.....	1,491 20	
The Bell Telephone Co.....	Messages.....	23 05	
Jeannotte Fontaine .....	Salary as extra clerk from 14 Jan. to 28 Feb., 1911.....	107 51	
W. S. H. Bernard.....	Salary as extra clerk from 23 Jan. to 25 March, 1911.....	78 06	
Thos. L. Leckie.....	Salary as extra messenger, from 6 Feb. to 31 March 1911.....	74 38	
Mrs. R. Robert.....	Washing and marking towels.....	72 25	
Bryson, Graham, Ltd.....	Towels, brushes, combs, soap, &c., &c .....	73 32	
G. R. Lancefield.....	View of Parliament.....	20 00	
Thornton & Truman.....	Keys and repairs.....	54 50	
L. Gilbrandson.....	2 photos of the King.....	5 00	
F. Jarman.....	Framing 2 pictures.....	5 00	
Dominion Express Co.....	Express charges.....	24 12	
The J. F. Hartz Co., Ltd.....	1 sparta water still.....	12 00	
J. Mahoney .....	Cartage.....	14 00	
Canadian Express Co.....	Express charges .....	2 55	
Ottawa Electric Ry. Co .....	Street car tickets .....	10 00	
W. H. Sproule.....	Repairs to clock .....	7 75	
Butterworth & Co.....	Small lock, etc.....	1 20	
W. G. Charleson.....	Hardware.....	20	
J. L. Rochester.....	Chloride of lime.....	15	
Pacific Marine Review, Seattle .....	Subscription.....	6 00	
Le Spectateur, Hull.....	" .....	2 00	
The America Herald, Hazelton.....	" .....	3 00	
The Interior News, Aldermere.....	" .....	3 00	
The Winnipeg Telegram, Winnipeg.....	" .....	4 00	
The Victoria Daily Times, Victoria.....	" .....	2 65	
Le Courrier de l'Ouest Pub. Cie.....	" .....	2 00	
The News Advertizer's, Vancouver .....	" .....	6 00	
The Chronicle, Montreal.....	" .....	2 00	
The World, Vancouver.....	" .....	3 00	
The Montreal Star Pub. Co., Ltd.....	" .....	3 00	
Farmer's Advocate.....	" .....	1 50	
La Cie de Pub. du Canada.....	" .....	6 00	
The Citizen, Ottawa.....	" .....	18 25	
The New Freeman, St. John.....	" .....	1 00	
The Ottawa Free Press.....	" .....	9 40	
The Rossland Mines, Rossland.....	" .....	6 00	
Times Printing Co., Hamilton .....	" .....	3 00	
The Tobacco World Corp., Philadelphia .....	" .....	2 00	
La Tribune, St. Hyacinthe.....	" .....	1 00	
The Journal, St. Catharines .....	" .....	3 00	
Munn & Co., New York.....	" .....	8 25	
The North Bay Times, North Bay.....	" .....	2 00	
Le Temps, Ottawa.....	" .....	3 00	
Chronicle Pub. Co., Ltd., Halifax.....	" .....	5 00	
The Standard of Empire, Toronto.....	" .....	4 00	

## SESSIONAL PAPER No. 12

- APPENDIX B.—*Continued.*No. 5.—DETAILS of Departmental Expenditures for the Year ended March 31,  
1911—*Concluded.*

Names.	Services.	Amounts paid.		Total amounts paid.	
		\$	cts.	\$	cts.
The Daily News, Chatham .....	Subscription .....	3	00		
L'Union, St. Hyacinthe .....	" .....	4	50		
The Inland Colonist, Kitchener .....	" .....	4	00		
The United Canada, Ottawa .....	" .....	1	50		
The Toronto World, Toronto .....	" .....	10	00		
The Herald Co., Montreal .....	" .....	6	00		
L'Echo de Quebec, Quebec .....	" .....	1	50		
Le Lac St. Jean, Roberval .....	" .....	1	00		
L'Union des Cantons de l'Est, Arthabaskaville .....	" .....	1	00		
Victoria Daily Times, Victoria .....	" .....	3	00		
The Shareholder, Montreal .....	" .....	2	00		
The Catholic Church Ex. Society, Toronto .....	" .....	1	00		
News Publishing Co., Toronto .....	" .....	3	00		
The Trade Review, Montreal .....	" .....	2	00		
Le Canadien, Chatham .....	" .....	1	50		
Gazette Printing Co., Montreal .....	" .....	12	00		
Globe Printing Co., Toronto .....	" .....	8	00		
The Mines Pub. Co., Ltd., Toronto .....	" .....	4	00		
Toronto Daily Star, Toronto .....	" .....	3	00		
The Mail and Empire, Toronto .....	" .....	4	00		
Journal Printing Co., Ottawa .....	" .....	8	40		
American Food Journal, Chicago .....	" .....	1	50		
Le Bulletin, Montreal .....	" .....	1	00		
The Daily Weekly Tribune, Winnipeg .....	" .....	2	00		
Blackadar Bros., Halifax .....	" .....	5	00		
The Weyburn Herald, Saskatchewan .....	" .....	1	00		
Chronicle Printing Co., Quebec .....	" .....	3	00		
Le Progrès de Windsor, Windsor .....	" .....	1	00		
The Intelligencer, Belleville .....	" .....	3	00		
The Manitoba Free Press, Winnipeg .....	" .....	4	00		
Saturday Sunset .....	" .....	2	00		
Nanaimo Daily World, Nanaimo .....	" .....	5	00		
The Vancouver Daily World, Vancouver .....	" .....	3	50		
The Inland Sentinel, Kamloops .....	" .....	4	00		
The Daily Telegraph, St. John .....	" .....	3	00		
Jones, Yarell & Co., London, Eng. ....	" .....	14	76		
Saturday Night, Toronto .....	" .....	9	00		
Canadian Manufacturer, Toronto .....	" .....	1	00		
The Empire, Prince Rupert .....	" .....	4	00		
Witness Printing House, Toronto .....	" .....	6	00		
The Can. Newspaper, London, Eng. ....	" .....	7	00		
Le Cultivateur, Montreal .....	" .....	1	00		
The Okanagan Adv., Armstrong .....	" .....		75		
The Herald Pub'g. Co., Cranbrook .....	" .....	1	50		
La Presse, Montreal .....	" .....	7	00		
Total departmental contingencies .....				6,897	34
Authorized disbursements (less superannuation, retirement and insurance) .....				106,919	62
AND—Balance due March 31, 1911 .....				16	66
				106,936	28
LESS—Balance due April 1, 1910 .....				16	66
Actual disbursements agreeing with statement No. 16, page 42 .....				106,919	62

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.W. J. GERALD,  
*Deputy Minister.*



## APPENDIX B.—Continued.

No. 6.—DETAILS of Weights and Measures Expenditures for the Year ended  
March 31, 1911.

To whom paid.	Service.	DEDUCTIONS FOR			Amounts paid.	Total Amounts paid.
		Superannuation.	Retirement.	Guarantee.		
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
<i>Belleville.</i>						
Johnson, W. ....	Salary as Inspector for the year..	24 00		3 60	1,172 40	
Slattery, T. ....	" Asst. Inspector for the year..	15 00		1 80	733 20	
Kylie, R. ....	" " " "			1 80	748 20	
Howson, G. H. ....	" " " "			1 80	748 20	
	Salaries.....	39 00		9 00	3,402 00	
	Contingencies.....				1,419 26	
						4,821 26
<i>Hamilton.</i>						
Sealey, J. C. ....	Salary as Inspector for the year.....			3 60	1,196 40	
Marentette, A. ....	" Asst. Inspector for the year..	18 97		1 80	929 17	
Fitzgerald, E. W. ....	" " " "			1 80	948 14	
Wheatley, A. E. ....	" " " "			1 80	1,098 14	
Laidman, R. H. ....	" " " "			1 80	948 14	
Robins, S. W. ....	" " " "			1 80	898 20	
Clegg, J. ....	" " " "			1 80	798 14	
	Salaries.....	18 97		14 40	6,816 33	
	Contingencies.....				1,657 56	
						8,473 89
<i>Kingston.</i>						
Gallagher, T. ....	Salary as Inspector for the year.....			3 60	1,046 40	
Johnston, C. W. ....	" Asst. Inspector for the year..			1 80	948 14	
MacLean, C. E. ....	" " from Feb. 1, to Mch. 31, 1911.....			0 30	99 70	
	Salaries.....			5 70	2,094 24	
	Contingencies.....				901 44	
						2,995 68
<i>Ottawa.</i>						
Macdonald, J. A. ....	Salary as Inspector for the year.....			3 60	1,446 36	
Breen, J. ....	" Asst. Inspector for the year..			1 80	948 14	
Winsor, J. ....	" " " "			1 80	698 16	
Findlay, R. ....	" " " "			1 80	898 20	
Church, G. C. ....	" " " "			1 80	698 17	
Hodgins, H. A. ....	" " " "			1 80	698 17	
	Salaries.....			12 60	5,387 20	
	Contingencies.....				1,054 67	
						6,441 87
<i>Toronto.</i>						
McConvey, J. J. ....	Salary as Inspector for the year.....			3 60	1,479 73	
Milligan, R. J. ....	" Asst. Inspector for the year..			1 80	1,098 14	
Wright, R. J. ....	" " " "	18 97		1 80	929 17	
Murdoch, J. ....	" " " "			1 80	948 14	
Lyons, A. ....	" " " "			1 80	848 17	
Cruikshank, J. L. ....	" " " "			1 80	848 17	
Smith, J. C. ....	" " " "			1 80	948 14	
	Salaries.....	18 97		14 40	7,099 66	
	Contingencies.....				2,421 86	
						9,521 52





## APPENDIX B.--Continued.

No. 6.—DETAILS of Weights and Measures Expenditures for the Year ended March 31, 1911—Continued.

To whom paid.	Service.	DEDUCTIONS FOR			Amounts paid.	Total Amounts paid.
		Superannuation.	Retirement.	Guarantee		
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
<i>St. John.</i>						
Barry, J. ....	Salary as Inspector for the year. ....	.....	.....	3 60	1,346 40	
Bernier, J. A. ....	" Assistant Inspector for the year .....	.....	.....	1 80	598 20	
LeBlanc, F. X. . .	" " " .....	.....	.....	1 80	748 20	
White, H. E. ....	" " " .....	.....	.....	1 80	898 20	
	Salaries .....	.....	.....	9 60	3,591 00	
	Contingencies .....	.....	.....	.....	912 77	
						4,503 77
<i>Cape Breton.</i>						
Laurence, G. C. . .	Salary as Inspector for the year. ....	.....	.....	3 60	996 41	
	Contingencies .....	.....	.....	.....	472 22	
						1,468 63
<i>Halifax.</i>						
Cochrane, J. A. . .	Salary as Inspector for the year. ....	.....	.....	3 60	1,096 32	
Waugh, R. J. ....	" Assistant Inspector for the year .....	.....	.....	1 80	648 12	
	Salaries .....	.....	.....	5 40	1,744 44	
	Contingencies .....	.....	.....	.....	2,095 41	
						3,839 85
<i>Pictou.</i>						
Dustan, W. M. . .	Salary as Inspector for the year. ....	22 04	.....	3 60	1,074 36	
Chisholm, J. J. . .	" Assistant Inspector for the year .....	.....	.....	1 80	848 17	
	Salaries .....	22 04	.....	5 40	1,922 53	
	Contingencies .....	.....	.....	.....	318 75	
						2,241 28
<i>Charlottetown.</i>						
Davy, E. ....	Salary as Inspector for the year. ....	.....	.....	3 60	1,058 88	
Hughes, H. ....	" Assistant Inspector for the year .....	.....	.....	1 80	698 16	
	Salaries .....	.....	.....	5 40	1,757 04	
	Contingencies .....	.....	.....	.....	299 76	
						2,046 80
<i>Winnipeg.</i>						
Magness, R. ....	Salary as Inspector from April 1, 1910 to Jan. 1, 1911. Died Dec. 26, 1910 .....	.....	.....	2 70	1,272 24	
Mager, J. G. ....	" Asst. Inspector from April 1, 1910, to June 1, 1910. Died May 28, 1910 .....	.....	.....	0 30	49 70	
McKay, R. ....	" Asst. Inspector for the year .....	.....	.....	1 80	898 20	
Gilby, W. F. ....	" " " .....	.....	.....	1 80	648 14	
Spicer, H. ....	" " " .....	.....	.....	1 80	798 14	
MacLean, D. J. . .	" " from Oct. 1, 1910 to March 31, 1911 .....	.....	.....	1 05	298 95	
Buote, P. H. . . .	" Asst. Inspector from Feb. 1, 1910, to March 31, 1911 .....	.....	.....	0 30	99 70	
Walton, Geo. ....	" Inspector from Feb. 18, 1910 to March 31, 1911 .....	.....	.....	0 41	173 69	
	Salaries .....	.....	.....	10 16	4,238 76	
	Contingencies .....	.....	.....	.....	2,750 99	
						6,989 75

## APPENDIX B—Continued.

No. 6.—DETAILS of Weights and Measures Expenditures for the Year ended March 31, 1911—*Continued.*

To whom paid.	Service.	DEDUCTIONS FOR			Amounts paid.	Total Amounts paid.
		Superannuation.	Retirement.	Guarantee		
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
	<i>Calgary.</i>					
Costello, J. W....	Salary as Inspector for the year....	23 99		3 60	1,172 41	
Cook, J.....	" Asst. Inspector for the year....			1 80	881 48	
Wilson, W. A....	" " "			30	133 02	
	Salaries.....	23 99		5 70	2,186 91	
	Contingencies .....				3,458 97	
						5,645 88
	<i>Regina.</i>					
Grant, W. M. ....	Salary as Inspector for the year.. . . .			3 60	1,079 71	
Ross, J. I. N.....	" Asst. Inspector from Feb. 1 to March 31, 1911.....			30	149 70	
	Salaries .....			3 90	1,229 41	
	Contingencies.....				3,533 78	
						4,763 19
	<i>Nelson.</i>					
Parker, T.....	Salary as Inspector for the year. ....			3 60	1,196 40	
	Contingencies.....				1,241 45	
						2,437 85
	<i>Vancouver.</i>					
Marshall, R.....	Salary as Inspector for the year. . . . .			3 60	1,346 40	
Findley, H.....	" Asst. Inspector from April 1 to Nov. 1, 1910. Died Oct. 5, 1910.....			1 05	523 95	
Dutton, A. H....	" Asst. Inspector for the year.. . . .			1 80	798 12	
Harris, W. H....	" " " .....			1 80	798 12	
Shaw, J.....	" " " .....			1 80	348 12	
	Salaries.....			10 05	3,814 71	
	Contingencies.....				703 35	
						4,518 06
	<i>Yukon.</i>					
Macdonald, J. F..	Salary as Inspector for the year. . . . .			3 60	996 40	
	Contingencies.. . . . .				264 45	
						1,260 85
	<i>Chief Inspector.</i>					
Fyfe, Jas.....	Contingencies.....					492 41

## APPENDIX B—Continued.

No. 6.—DETAILS of Weights and Measures Expenditures for the Year ended March 31, 1911—Continued.

To whom paid.	Service.	Amounts paid.	Total Amounts paid.
	<i>General Contingencies.</i>	\$ cts.	\$ cts.
Pritchard & Andrews Co., Ltd., The	Stamps and repairs.	59 78	
Collector of Customs.	Duty paid on imported goods.	212 01	
Victoria Machinery Dept. Co.	160 iron weight 7,900 lbs. at 4c. and cartage, \$3.75.	319 75	
"	1 iron weight.	1 96	
Carson, Hugh	24 leather cases and 48 black leather straps.	58 80	
The Ottawa Electric Co.	Electric current supplied for motor of machinery shop.	58 50	
Charleson, W. G.	Nails and screws, &c.	7 80	
Iawson, Thos. & Sons, Ltd.	568 standard weights of 50 lbs each.	852 00	
Thornton & Truman.	24 brass corners for kits, keys and supplies.	190 75	
Connor, C. H.	Law costs Rex vs. R. J. & J. Austin.	25 00	
Astle, H. J. & Co.	1 blower and self feeding sand blast, &c.	133 22	
American Bank Note Co.	Stamps supplied.	25 00	
Montreal Stencil Works.	6 copper stencils, steel dies, &c.	19 35	
Oertling, L.	2 sets 1,000 grain weights.	63 34	
Bryson, Graham & Co	10 yds. cloth.	5 00	
Postmaster of Ottawa	Stamps.	5 00	
Higerty, Chas	Commission for making customs entries.	8 50	
Mahoney, J	Cartage.	1 25	
Dominion Express Co.	Express charges.	8 19	
Grand Trunk Railway	Freight.	5 70	
Canadian Pacific Railway.	"	1 18	
Himsworth, W.	Petty expenses for W. & M. Branch.	1 65	
	Total general contingencies.		2,063 73
	<i>Provisional Allowance.</i>		
Magness, R. & Walton, G., Winnipeg, Manitoba.	To pay Grant, C. D.	99 96	
"	" Spicer, H.	99 96	
"	" Buote, P. H.	49 98	
"	" McLean, Dan.	58 31	
Costello, J. W., Calgary, Alta	" Wilson, W. A.	99 96	
"	" Cook, J.	58 31	
Marshall, R., Vancouver, B.C.	" Harris, W. H.	99 96	
"	" Dutton, A. H.	99 96	
Grant, W. M., Regina, Sask.	" Humphries, J. H.	24 45	
	Total for provisional allowance.		690 89
	<i>Metric System.</i>		
Canadian Express Co.	Express charges.	5 82	
Dominion Express.	"	3 14	
Mahoney, J.	Cartage.	1 00	
	Total for metric system.		9 96

SESSIONAL PAPER No. 12

APPENDIX B—*Continued.*No. 6.—DETAILS of Weights and Measures Expenditures for the Year ended March 31, 1911—*Concluded.*

To whom paid.	Service.	Amounts paid.	Total Amounts paid.
	<i>The International Bureau of Weights and Measures.</i>	\$ cts.	\$ cts.
	Annual contribution of the Dominion of Canada towards the Bureau's appropriation for 1910.....		209 37
	Total .....		114,506 21
	ADD—Printing.....	1,237 38	
	Stationery .....	562 23	
	Lithographing.....	362 88	
			2,162 49
	Grand total.....		116,668 70
	ADD—Old balances due by Inspectors April 1, 1910.....		193 26
			116,861 96
	LESS—Old balances due by Inspectors March 31, 1911.....		193 26
	Actual disbursements (less superannuation, insurance, retirement and guarantee) agreeing with statement No. 19a. and No. 19b., pages 48 and 49. ....		116,668 70

W. J. GERALD,  
*Deputy Minister.*INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

## APPENDIX B.—Continued.

No. 7.—DETAILS of Gas Inspection Expenditures for the Year ended March 31, 1911.

To whom paid.	Service.	DEDUCTIONS FOR			Amounts paid.	Total Amounts paid.	
		Superannuation.	Retirement.	Guarantee			
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
<i>Barrie.</i>							
Shanacy, M. ....	Salary as Inspector for the year.....	2 00		3 60	94 40	109 25	
	Contingencies.....				14 85		
<i>Belleville.</i>							
Johnson, W. ....	Salary as Inspector for the year.....	9 00		3 60	437 40	734 78	
Stuart, W. E. ....	" Asst. Inspector for the year.....			2 88	97 08		
	Salaries.....	9 00		6 48	534 48		
	Contingencies.....				200 30		
<i>Berlin.</i>							
Powell, J. B. ....	Salary as Inspector for the year.....			3 60	96 40		229 99
	Contingencies .....				133 59		
<i>Cobourg.</i>							
Bickle, J. W. ....	Salary as Inspector for the year.....	2 00		3 60	94 40	151 15	
	Contingencies .....				56 75		
<i>Cornwall.</i>							
Mulhern, M. M. ...	Contingencies .....					32 50	
<i>Guelph.</i>							
Broadfoot, S. ....	Salary as Inspector for the year.....	6 00		3 60	290 40	323 87	
	Contingencies.....				33 47		
<i>Hamilton.</i>							
McPhie, D. ....	Salary as Inspector for the year.....	40 04		3 60	1,956 36	4,569 78	
McPhie, W. H. ....	" Asst. Inspector for the year..			1 80	948 12		
Murphy, F. C. ....	" " " .....			1 80	898 20		
Dennis, F. C. ....	" " " .....			1 80	148 20		
	Salaries.....	40 04		9 00	3,950 88		
	Contingencies.....				618 90		
<i>Listowel.</i>							
Male, T. ....	Salary as Inspector for the year.....			3 60	96 40		194 15
	Contingencies .....				97 75		
<i>London.</i>							
Nash, A. F. ....	Salary as Inspector for the year.....			3 60	1,596 37	2,933 01	
Skelton, A. R. ....	" Asst. Inspector for the year..			1 80	798 14		
	Salaries.....			5 40	2,594 51		
	Contingencies .....				538 50		



SESSIONAL PAPER No. 12

## APPENDIX B—Continued.

No. 7.—DETAILS of Gas Inspection Expenditures for the Year ended March 31, 1911—Continued.

To whom paid.	Service.	DEDUCTIONS FOR			Amounts paid.	Total Amounts paid.
		Superannuation.	Retirement.	Guarantee		
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
	<i>Napance.</i>					
Johnson, W. ....	Contingencies .....					25 90
	<i>Ottawa.</i>					
Roche, H. G. ....	Salary as Inspector for the year. ....			3 60	1,346 40	
Roche, W. J. ....	" Asst. Inspector for the year. ....			2 88	947 06	
Bond, M. B. ....	" " " " .....			2 88	947 06	
	Salaries .....			9 36	3,240 52	
	Contingencies .....				426 52	3,667 04
	<i>Owen Sound.</i>					
Graham, W. J. ...	Salary as Inspector for the year. ....			3 60	196 40	
	Contingencies .....				28 07	224 47
	<i>Peterborough.</i>					
Rork, T. . . . .	Salary as Inspector for the year. ....			3 60	146 40	
	Contingencies .....				5 25	151 65
	<i>Sarnia.</i>					
Thrasher, W. A. . .	Salary as Inspector for the year. ....			3 60	196 40	
	Contingencies .....				4 40	200 80
	<i>Stratford.</i>					
Rennie, G. ....	Salary as Inspector for the year. ....	4 00		3 60	192 40	
	Contingencies .....				13 00	205 40
	<i>Toronto.</i>					
Johnstone, J. K. .	Salary as Inspector from Apr. 1 to Sept. 1, 1910. Died Aug. 12, 1910.	16 65		1 50	815 15	
Pape, J. ....	" Asst. Inspector for the year. ....			1 80	1,198 20	
Hunter, W. M. ....	" " " " .....			1 80	1,098 14	
Renahan, M. J. . .	" " " " .....			1 35	673 65	
Ogden, G. J. ....	" " Insp. from Aug. 1, 1910 to Mch. 31, 1911 .....			1 80	756 48	
Clark, H. M. ....	" " Insp. from Aug. 16, 1910 to Mch. 31, 1911 .....			1 12	499 90	
Johnstone, S. F. . .	" " Insp. from Oct. 10, 1910 to Mch. 31, 1911 .....			0 90	371 10	
	Salaries .....	16 65		10 27	5,412 62	
	Contingencies .....				72 92	5,485 54
	<i>Woodstock.</i>					
Orr, H. N. ....	Salary as Inspector for the year. ....			1 80	198 20	
	Contingencies .....				12 95	211 15

2 GEORGE V., A. 1912

## APPENDIX B—Continued.

## No. 7.—DETAILS of Gas Inspection Expenditures for the Year ended March 31, 1911—Continued.

To whom paid.	Service.	DEDUCTIONS FOR			Amounts paid.	Total Amounts paid.
		Superannuation.	Retirement.	Guarantee		
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
<i>Montreal.</i>						
Aubin, A. ....	Salary as Inspector for the year. ....	..	.....	3 60	1,996 32	
O'Flaherty, M. J..	" Asst. Inspector for the year. ....	.....	.....	1 80	948 14	
Aubin, C. ....	" " " " .....	.....	.....	2 88	997 09	
Mann, W. ....	" " " " .....	.....	.....	2 88	947 06	
	Salaries .....	.....	.....	11 16	4,888 61	
	Contingencies .....	.....	.....	.....	431 45	
						5,323 06
<i>Quebec.</i>						
LeVasseur, N. ....	Salary as Inspector for the year. ....	22 04	.....	3 60	1,074 36	
Béland, E. ....	" Asst. Inspector for the year. ....	.....	.....	3 60	396 36	
	Salaries .....	22 04	.....	7 20	1,470 72	
	Contingencies .....	.....	.....	.....	252 35	
						1,723 07
<i>Sherbrooke.</i>						
Simpson, A. F. ....	Salary as Inspector for the year. ....	3 00	.....	3 60	143 40	
Bowen, F. C. ....	" Asst. Inspector for the year. ....	.....	.....	1 80	98 16	
	Salaries .....	3 00	.....	5 40	241 56	
						241 56
<i>St. Hyacinthe.</i>						
Benoit, L. V. ....	Salary as Inspector for the year. ....	.....	.....	1 80	.....	
						98 20
<i>Fredericton.</i>						
Wilson, J. E. ....	Salary as Inspector for the year. ....	.....	.....	1 80	98 20	
						140 70
<i>St. John.</i>						
Wilson, J. E. ....	Salary as Inspector for the year. ....	.....	.....	3 60	1,296 41	
	Contingencies .....	.....	.....	.....	127 00	
						1,423 41
<i>Halifax.</i>						
Cotter, W. F. ....	Salary as Inspector from April 1 to May 1, 1910. Died April 15, 1910. ....	.....	.....	30	99 70	
Munro, H. D. ....	" Asst. Inspector for the year. ....	2 00	.....	1 80	96 20	
Toale, J. ....	" Inspector from March 21, to March 31, 1911. ....	.....	.....	.....	35 48	
Withers, S. W. ....	" Asst. Inspector from March 21, to March 31, 1911. ....	.....	.....	.....	26 61	
	Salaries .....	2 00	.....	2 10	257 99	
	Contingencies .....	.....	.....	.....	2,362 12	
						2,620 11
<i>Charlottetown.</i>						
Bell, J. H. ....	Salary as Inspector for the year. ....	.....	.....	3 60	.....	
						458 90

SESSIONAL PAPER No. 12

APPENDIX B—*Continued.*

No. 7.—DETAILS of Gas Inspection Expenditures for the Year ended March 31,  
1911—*Continued.*

To whom paid.	Service.	DEDUCTIONS FOR			Amounts paid.	Total Amounts paid.
		Superannuation.	Retirement.	Guarantee		
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
	<i>Winnipeg.</i>					
Hamilton, R. ....	Salary as Inspector for the year. ....			3 60	1,496 40	
Mager, J. G. ....	" Asst. Inspector from April 1 to June 1, 1910. Died May 28, 1910. ....			48	132 84	
Babington, F. C. ...	" Asst. Inspector from June 15, 1910, to March 31, 1911 ...			1 43	792 98	
	Salaries. ....			5 51	2,422 22	
	Contingencies. ....				482 23	
						2,904 45
	<i>Nanaimo.</i>					
Shaw, J. ....	Salary as Inspector for the year. ....			3 60	96 40	
	Contingencies. ....				3 00	
						99 40
	<i>New Westminster.</i>					
Wolfenden, W. ....	Salary as Inspector for the year. ....		10 00	3 60		
						186 40
	<i>Vancouver.</i>					
Stott, James. ....	Contingencies .. .					514 45
	<i>Victoria.</i>					
Jones, R. ....	Salary as Inspector for the year. ....	6 00		3 60	290 40	
	Contingencies. ....				3 00	
						293 40
	<i>Dominion Inspector.</i>					
Lambe, A. B. ....	Contingencies. ....					196 50

2 GEORGE V., A. 1912

APPENDIX B—*Continued.*No. 7.—DETAILS of Gas Inspection Expenditures for the Year ended March 31, 1911.—*Concluded.*

To whom paid.	Service.	Amounts paid.	Total Amounts paid.
	<i>General Contingencies.</i>	\$ cts.	\$ cts.
Stevenson, G. . . . .	Two provers for stock. . . . .	760 00	
Pritchard & Andrews Co. Ltd., The. . . . .	Stamps, rollers, repairs and general supplies. . . . .	54 65	
American Bank Note Co. . . . .	Stamps supplied. . . . .	79 50	
Canadian Rubber Co. . . . .	18 <sup>7</sup> / <sub>16</sub> lbs. rubber tubing at \$4.50 per lbs. . . . .	82 97	
Gutta Percha Rubber Co. . . . .	1 <sup>1</sup> / <sub>16</sub> gum tubing at \$3.90 per lbs. . . . .	6 09	
Mahoney, J. . . . .	Cartage. . . . .	1 00	
Dominion Express Co. . . . .	Express charges. . . . .	1 70	
Canadian Pacific Ry. . . . .	Freight. . . . .	0 65	
	Total for gas contingencies. . . . .		986 56
	ADD—Printing. . . . .	730 08	36,660 60
	Stationery. . . . .	576 54	1,306 62
	Grand total. . . . .		37,967 22
	ADD—Balances due by Inspectors March, 31, 1911. . . . .		212 88
	LESS—Balances due by Inspectors March, 31, 1910. . . . .		37,754 34 212 88
	Actual disbursements agreeing with statement No. 21, page 52. . . . .		37,967 22

W. J. GERALD,

*Deputy Minister.*INLAND REVENUE DEPARTMENT,  
Ottawa, June 16, 1911.

SESSIONAL PAPER No. 12

APPENDIX B—*Continued.*

No. 8.—DETAILS of Electric Light Inspection Expenditures for the Year ended March 31, 1911.

To whom paid.	Service.	Deductions for Guarantee.	Amounts paid.	Total Amounts paid.
	<i>Belleville.</i>	\$ cts.	\$ cts.	\$ cts.
Fraser, H. ....	Salary as Inspector for the year.....	7 20	409 45	
	Contingencies.....		725 63	1,135 08
	<i>Hamilton.</i>			
McPhie, D. ....	Contingencies.....			155 61
	<i>London.</i>			
Nash, A. F. ....	Contingencies.....			202 50
	<i>Ottawa.</i>			
Roche, H. G. ....	Contingencies.....			332 35
	<i>Owen Sound.</i>			
Graham, W. J. ....	Contingencies.....			1 00
	<i>Toronto.</i>			
Johnstone, J. K. .	Contingencies.....			2,882 81
	<i>Montreal.</i>			
Aubin, A. ....	Contingencies.....			857 10
	<i>Quebec.</i>			
LeVasseur, N. ....	Contingencies.....			131 85
	<i>Sherbrooke.</i>			
Simpson, A. F. ....	Contingencies.....			180 95
	<i>St. Hyacinthe.</i>			
Provost, I. E. ....	Salary as Inspector for the year .....	1 80	298 20	
	Contingencies.....		152 50	450 70
	<i>Three Rivers.</i>			
Robitaille, G. W. .	Salary as Inspector for the year. . . . .	1 80	498 20	
	Contingencies.....		170 50	668 70
	<i>St. John.</i>			
Wilson, J. E. ....	Contingencies.....			311 56
	<i>Halifax.</i>			
Toale, J. ....	Contingencies.....			404 40
	<i>Charlottetown.</i>			
Bell, J. H. ....	Contingencies.....			129 60

APPENDIX B—*Continued.*

## No. 8.—DETAILS of Electric Light Inspection Expenditures for the Year ended March 31, 1911.

To whom paid.	Service.	Deductions for Guarantee.	Amounts paid.	Total Amounts paid.
	<i>Winnipeg.</i>	\$ cts.	\$ cts.	\$ cts.
Hamilton, R. ....	Contingencies.....			1,279 58
	<i>Edmonton.</i>			
Roe, E. A. ....	Salary as Inspector for the year.....	3 60	1,396 42	
	Contingencies.....		1,036 76	2,433 18
	<i>Regina.</i>			
Reesor, M. W. ....	Salary as Inspector from Oct. 1, 1910, to Mar. 31, 1911	1 80	598 20	
	Contingencies.....		789 65	1,387 85
	<i>Vancouver.</i>			
Stott, J. ....	Salary as Inspector for the year.....	3 60	1,496 40	
Templeton, W. A. ....	" Assistant Inspector for the year.....	3 60	1,096 34	
Power, O. S. ....	" " " ".....	1 85	1,027 67	
	Salaries.....	9 05	3,620 41	
	Contingencies.....		512 85	4,133 26
	<i>Victoria.</i>			
Jones, R. ....	Contingencies.....			83 20
	<i>Yukon.</i>			
Macdonald, J. F. .	Salaries as Inspector for the year.....	3 60		496 40
	<i>Chief Engineer.</i>			
Higman, O. ....	Contingencies.....			875 45
	<i>Dominion Inspector.</i>			
Lambe, A. B. ....	Salary as Dominion Inspector for electric light from June 1, 1910, to Mar. 31, 1911.....	3 00	1,913 60	
	Contingencies.....		789 49	2,703 09



SESSIONAL PAPER No. 12

APPENDIX B—*Continued.*No. 8.—DETAILS of Electric Light Expenditures for the Year ended March 31,  
1911—*Concluded.*

To whom paid.	Service.	Amounts paid.	Total Amounts paid.
		\$ cts.	\$ cts.
<i>General Contingencies.</i>			
Weston Electrical Instrument Co. ....	Electrical instruments &c., for laboratory .....	367 70	
Trumbull Elec. Manf. Co. .	" " " .....	252 73	
Ward Leonard Elec. Co. .	" " " .....	951 19	
Lawson, Thos., & Sons Ltd.	" " " .....	52 70	
Ahearn & Soper Ltd. ....	General electrical supplies and repairs .....	491 49	
Reason Mfg. Co. Ltd, The.	Electrical supplies for laboratory .....	86 09	
Canadian General Elec. Co.	" " " .....	345 25	
Collector of Customs	Duty paid on imported goods .....	491 07	
American Vulcanized Fibre Co. ....	200 feet of tubing .....	12 10	
Higman, O., jr. ....	Professional services for examining papers, re-examinations .....	40 00	
Wright, Alex. ....	One net burner for laboratory .....	15 33	
Berry Construction Co. Ltd., The. ....	Apparatus for laboratory .....	16 67	
Gurley, W. & L. E. ....	" " " .....	81 54	
Mitchel Robt. Co., The. .	" " " .....	108 00	
Duncan Electric Mfg. Co.	Three portable test meters .....	315 40	
Dominion Express Co. ....	Express charges .....	16 93	
American Express Co. ....	" " " .....	0 70	
Higerty, Charles. ....	Commission for passing Customs entries .....	9 00	
	Total general gas contingencies .....		3,653 89
	Grand total .....		24,890 11
	Add— Printing .....	50 92	
	Stationery .....	194 52	
			245 44
	Actual disbursements agreeing with statement No. 23, page 56 .....		25,135 55

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.W. J. GERALD,  
*Deputy Minister.*

## APPENDIX B—Continued.

No. 9.—List of Permanent Employees of the Inland Revenue Department employed on salary during the year ended March 31, 1911.

NAMES.	SERVICES.						
	Inside.	Excise.	Weights and Measures.	Gas.	Electric Light Inspection.	Preventive.	Food, Inspection.
Adams, A. R.		1					
Alexander, Thos.		1					
Allen, A. T.	1						
Allen, G. A.		1					
Altman, Peter J.		1					
Amor, Wm.		1					
Andrews, A. A.		1					
Arcand, D.		1					
Archambault, J. E.			1				
Armstrong, T. E.		1					
Armstrong, Walter.	1						
Aubin, A.				1	1		
Aubin, C.				1	1		
Auger, L. H.		1					
Baby, W. A. D.		1					
Baikie, D.		1					
Barbeau, L.	1						
Barber, J. S.		1					
Barnes, G.		1					
Barrett, J. K.		1					
Barry, James.			1				
Bayard, Gilbert A.		1					
Beard, Miss M. H.	1						
Beasley, M. O.		1					
Beaulac, J. H.			1				
Beaulieu, J. B.		1					
Bélair, A. (Plessis dit).		1					
Béland, F. X. W. E.				1	1		1
Bélisle, E.	1						
Bell, J. H.				1	1		
Belleperche, A. J. E.		1					
Belyea, T. H.		1					
Bénéteau, S.		1					
Bennett, James.		1					
Benoit, L. V.		1		1			
Bergeron, E. L.		1					
Bergeron, R. J.		1					
Bernard, N. J. D.		1					
Bernier, Jean A.			1				
Bernier, J. Auguste.		1					
Berry, H. L.		1					
Bickle, J. W.		1		1			
Blackman, C.		1					
Blethen, C. W.		1					
Blyth, Alex.		1					
Bolduc, Ephrem.			1				
Bond, M. B.				1			
Bonner, J. D.					1		
Boomer, J. B.							
Boudet, E.			1				
Bourgeois, C.		1					
Bourgeois, E.	1						
Bourget, L. J.			1				
Bourget, O.		1					
Bonsquet, J. O.		1					
Bouteiller, G. A.		1					
Bowen, F. C.		1		1	1		
Bowman, Allan.		1					
Boyd, J. F. S.		1					

SESSIONAL PAPER No. 12

## APPENDIX B—Continued.

No. 9—List of Permanent Employees of the Inland Revenue Department,  
1910-1911—Continued.

NAMES.	SERVICE.						
	Inside.	Excise.	Weights and Measures.	Gas.	Electric Light Inspection.	Preventive.	Food Inspection.
Boyd, S. I.		1					
Boyle, P.		1					
Branbant, J. B. G. N.		1					
Brain, A. F.		1					
Breen, John			1				
Brennan, John		1					
Bridgman, M. W.		1					
Broadfoot, S.		1		1			
Brodeur, P. E. S.	1						
Brown, W. J.		1					
Browne, G. W.		1					
Bruce, G. B.		1					
Burgess, T.	1						
Bugeaud, J. F.			1				
Burke, T.		1					
Burns, R. J.		1					
Butler, F. H.			1				
Byrne, W. P.		1					
Cahill, J. H.		1					
Cahill, J. W.		1					
Caldwell, A. B.			1				
Cameron, D. M.		1					
Campeau, F. R. 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					
Charbonneau, E.	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, James Alfred.		1					
Clarke, Thomas		1					
Clegg, Jos.			1				
Cochran, J. A.			1				
Codd, Herber J. S.		1					
Code, Abraham.	1	1					
Cule, N. R.	1						
Coleman, Charles		1					
Coleman, J. J.		1					
Coles, F. H.		1					
Collin, J.		1					
Comte, L. A. A. J.		1					
Conklin, 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					

## APPENDIX B—Continued.

No. 9—LIST of Permanent Employees of the Inland Revenue Department,  
1910-1911—Continued.

NAMES.	SERVICES.						
	Inside.	Excise.	Weights and Measures.	Gas.	Electric Light Inspection.	Preventive.	Food Inspection.
Cruikshank, J. L.			1				
Cummiford, F. D.		1					
Dager, H. J.		1					
Dalton, M. J.		1					
Daoust, J. A.			1				
Daveluy, J. P.		1					
David, T.		1					
Davidson, E.	1						
Davis, T. G.		1					
Davy, Edward			1				
Dawson, W.		1					
Deely, F.		1					
Deland, A. N.		1					
Dennis, W. A.				1	1		
Desaulniers, J. E. A.		1					
Desmarais, H. F.		1					
Dessert, V.			1				
Dibblee, William		1					
Dick, J. W.		1					
Dickson, C. T.		1					
Dingman, N. J.		1					
Dixon, H. G. S.		1					
Dobbie, W. McC.		1					
Dontigny, H.		1					
Dowling, D. J.		1					
Doyle, B. J.		1					
Doyle, E. F.	1						
Doyon, J. A.	1						
Dumaine, J. D.		1					
Dumbrille, R. W.		1					
Dumouchel, Léandre		1					
Dunlop, C.		1					
Duplessis, C. Z.		1					
Dustan, W. M.			1				
Dutton, A. H.			1				
Dwyer, D. T.		1					
Earl, R. W.		1					
Egan, Wm.		1					
Egener, A.		1					
Ekins, E. J.	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					
Fielding, Laura G.		1					
Findlay, R.			1				
Fitzgerald, E. W.			1				
Fitzpatrick, W. J.		1					
Fleming, C.		1					
Fletcher, R. W.		1					1
Floody, E.						1	
Forest, E. R.		1					

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## APPENDIX B—Continued.

No. 9—List of Permanent Employees of the Inland Revenue Department,  
1910-1911—Continued.

NAMES.	SERVICES.						
	Inside.	Excise.	Weights and Measures.	Gas.	Electric Light Inspection.	Preventive.	Food Inspection.
Forest, M.		1					
Forster, E. L. C.	1						
Forsyth, D.		1					
Forward, C. C.	1						
Foster, J. Henry		1					
Fowler, George	1						
Fox, J. D.		1					
Fox, Thomas		1					
Frankland, H. R.		1					
Fraser, H.				1	1		
Fraser, P.		1					
Freeland, Anthony		1					
Furlong, C. J.	1						
Fyfe, James	1						
Galipeau, J. B. N.			1				
Gallagher, T.			1	1	1		
Gamache, J. N.		1					
Gariépy, L. N.		1					
Gauvin, E.		1					
Geldart, O. A.		1					
George, John		1					
Gerald, 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, Iréné		1					
Goodhue, M. L. E. B.	1						
Goodman, A. W.		1					
Gorman, Arthur M.		1					
Gosnell, T. S.		1					
Goudie, D. A.		1					
Gow, J. E.		1					
Graham, A. L.		1					
Graham, W. J.		1		1			
Graham, W. T.		1					
Grant, H. H.		1					
Gray, R. S.		1					
Gravel, A. L.			1				
Graveline, D. P.		1					
Griffin, P. F.		1					
Griffith, M. L.	1						
Grimason, Thomas		1					
Grosbois (de), Chas. B.		1					
Guay, Alphonse			1				
Hagan, James	1						
Hagerty, B.	1						
Hall, H. C.			1				
Halliday, W. A.	1						
Hammond, T. W.		1					
Hanley, A.		1					
Hanlan, J. R.		1					
Harris, W. H.			1				
Harwood, J. O. A.		1					
Hawkins, W. L.		1					
Hayhurst, T. H.		1					

## APPENDIX B--Continued.

No. 9—List of Permanent Employees of the Inland Revenue Department,  
1910-1911—Continued.

NAMES.	SERVICES.						
	Inside.	Excise.	Weights and Measures.	Gas.	Electric Light Inspection.	Preventive.	Food Inspection.
Hayward, W. J.			1				
Hébert, C. D.		1					
Hébert, J. A.			1				
Helliwell, H. N.		1					
Henwood, George.		1					
Hesson, C. A.		1					
Hicks, W. H.		1		1			
Higman, O.	1						
Hinsworth, Wm.	1						
Hinchey, E. H.		1					1
Hiscott, J. O.		1					
Hodder, W. E.		1					
Hodgins, H. A.			1				
Hogan, James		1					1
Howell, Thomas.		1					
Howie, A.		1					
Howson, G. H.			1				
Hubley, H. H.		1					
Hudon, L. E.		1					
Huggett, A. P.		1					
Hughes, Henry.			1				
Hughes, P. A.	1						
Hughes, R. A.			1				
Hunter, W. M.				1	1		
Hurst, Levi B.		1					
Iler, B.		1					
James, T. C.		1					
Jameson, S. B.		1					
Jamieson, R. C.		1					
Jeffrey, A. J.		1					
Johnson, J. J.		1					
Johnson, Wm.			1	1			
Johnston, C. W.			1	1	1		
Johnston, H. J.		1					
Jones, Andrew.		1					
Jones, Richard		1		1			
Jubinville, J. P.		1					
Kearney, D. J.		1					
Keay, W. S.		1					
Keeler, G. S.		1					
Kelly, J. T.						1	
Keogh, P. M.		1					
Kidd, Thomas.							1
King, R. M.		1					
Kirkpatrick, H. J.		1					
Kitto, W. V.	1						
Knowles, C.			1				
Kylie, R.			1				
Labelle, L. V.		1					
Ladouceur, J.	1						
Laidman, Richard H.			1				
Lally, J. E.		1					
Lambert, J. A.		1					
Lamoureux, J. A.		1					
Lane, T. M.		1					
Langelier, François.		1					
Laporte, Geo.		1					
Larivière, A. C.		1					1
LaRue, Alexandre.		1					



SESSIONAL PAPER No. 12

## APPENDIX B—Continued.

No. 9—List of Permanent Employees of the Inland Revenue Department,  
1910-1911—Continued.

NAMES.	SERVICES.						
	Inside.	Excise.	Weights and Measures.	Gas.	Electric Light Inspection.	Preventive.	Food Inspection.
Laurence, G. C.			1				
Laurier, J. L.		1					
Lawless, E. M.	1						
Lawlor, H.		1					
Lawlor, John J.		1					
LeBel, J. A. W.			1				
Leblanc, F. X.			1				
Lee, Edward.		1					
LeMoine, A.	1						
LeMoine, Jules.		1					
Lesperance, J. A.		1					
LeYasseur, 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, A.			1				
Lyons, E.		1					
Macdonald, A. B.		1					
Macdonald, G.		1					
Macdonald, J. A.			1				
Macdonald, J. F.		1	1	1	1		
MacGregor, D. C.		1					
Mackenzie, J. H.		1					
Mainville, C. P.		1					
Male, Thomas				1			
Mann, W.				1	1		
Maranda, N. A.		1					
Marentette, Alex.			1				
Marin, L. H.		1					
Marin, N. 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					
Milligan, R. J.			1				
Milliken, E.		1					
Milot, J. F.		1					
Mitchell, J. L.		1					
Montgomery, W. H.		1					
Mooney, G. B.		1					
Moore, T.		1					
Moreau, A.		1					
Morgan, E. J.		1					1
Morin, J. P.			1				
Morris, T. H.		1					
Munro, H. D.		1		1	1		
Murdoch, James			1				
Murphy, F. C.				1	1		

## APPENDIX B—Continued.

No. 9—List of Permanent Employees of the Inland Revenue Department,  
1910-1911—Continued.

NAMES.	SERVICES.						
	Inside.	Excise.	Weights and Measures.	Gas.	Electric Light Inspection.	Preventive.	Food Inspection.
Murray, David		1					
McArthur, G. H.		1					
McCloskey, J. R.		1					
McConvey, J.			1				
McCoy, Wm.		1					
McCullough, A.	1						
McCutcheon, H.		1					
McDonald, A. J.		1					
McFarlane, J.			1				
McFee, C.		1					
McGill, A.	1						
McGowau, J.		1					
McGuire, L. J.		1					
McGuire, T.		1					
McKay, R.			1				
McKell, M. E. E.	1						
McEnaghan, N.		1					
McNiven, J. D.		1					
McPherson, E. A.		1					
McPhie, Donald.				1	1		
McPhie, W. H.				1	1		
McSween, James		1					
Nash, A. F.				1	1		
Nash, S. C.		1					
Neil, James		1					
Newby, F.	1						
Newsome, I.		1					
Nicholas, B. C.	1						
Noonan, H. T.		1					
Noonan, J. M.		1					
Normandin, G.		1					
O'Brien, E. C.		1					
O'Brien, James		1					
O'Brien, J. F.		1					
O'Donnell, J.		1					
O'Donnell, M. J.		1					
O'Donohue, M. J.		1					
O'Flaherty, E. J.		1					
O'Leary, T. J.		1					
Oliver, J. T.		1					
Olivier, H.		1					
Orr, Henry N.		1		1			
Ostiguy, L. R.	1						
O'Sullivan, D.		1					1
Panneton, G. E.		1					
Pape, James.				1	1		
Parent, F.	1						
Parker, Thomas.			1				
Parkinson, Edward, B.		1					1
Patry, J. H.		1					
Patterson, C. E. A.		1					
Pelletier, N. G.		1					
Petit, J. B.			1				
Pleasance, W.		1					
Poirier, J. N.		1					
Poitras, Wilfrid.		1					
Popham, F. H.	1						
Portelance, P. A.		1					

SESSIONAL PAPER No. 12

## APPENDIX B—Continued.

No. 9—List of Permanent Employees of the Inland Revenue Department,  
1910-1911 *Continued.*

NAMES.	SERVICES.						
	Insi. le.	Excise.	Weights and Measures.	Gas.	Electric Light Inspection.	Preventive.	Food Inspection.
Powell, J. B.		1		1			
Power, J. F.		1					1
Power, O. S.				1	1		
Préfontaine, F. H.			1				
Provost, I. E.					1		
Publow, W. J.		1					
Quain, Redmond.	1						
Quinn, J. D.		1					
Ralston, T.		1					
Renahan, M. J.				1			
Renaud, A. H.		1					
Rennie, George.		1		1			
Rickey, J. A.	1						1
Ridgman, A. H.		1					
Rinfret, C. I.		1					
Ritchie, H.		1					
Robins, S. W.			1				
Robert, A.	1						
Robillard, G. A.		1					
Roche, H. G.				1	1		
Roche, W. J.				1			
Rork, T.		1		1			
Rose, John A.		1					
Ross, H. F.		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						
Ruddins, Wm.		1					
Ryan, Wm.		1					
Saucier, X.		1					
Scanlan, T. J.		1					
Schram, R. L. H.		1					
Schuler, F. C.		1					
Sculhon, W. J.		1					
Sealey, J. C.			1				
Shanacy, M.		1					
Shaw, J.		1	1	1	1		
Shaw, J. F.	1						
Shorey, A. B.		1					
Simpson, A. F.		1		1	1		
Simpson, W. A.		1					
Skelton, A. R.				1	1		
Slattery, R.		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		

## APPENDIX B—Continued.

No. 9—List of Permanent Employees of the Inland Revenue Department,  
1910-1911—Continued.

NAMES.	SERVICES.					
	Inside.	Excise.	Weights and Measures.	Gas.	Electric Light Inspection.	Food Inspection.
Stratton, W. C.		1				
Stuart, W. E.				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	
Thérien, 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				
Till, T. M.		1				
Timmons, R.		1				
Tobin, Thomas S.		1				
Tomlinson, W. M.			1			
Tompkins, P.		1				
Toupin, J. A.		1				
Tracy, J. P.		1				
Trumpour, G.	1					
Tytler, J. M.		1	1	1	1	
Valentine, Adam, jr.		1				
Valin, J. E.	1					
Valin, J. A. G.	1					
Verner, Thomas H.		1				
Waddell, S. J.		1				
Walsh, Daniel J.		1				
Walsh, W. H.		1				
Watson, V. M.	1					
Waugh, R. J.			1			1
Way, E. O.	1					
Webbe, C. E. A.		1				
Westman, T.	1					
Wheatley, Alfred E.			1			
White, H. E.			1			
White, J. B.		1				
Whitehead, J. P.		1				
Wilson, David		1				
Wilson, H. R.		1				
Wilson, J. C.			1			
Wilson, J. E.				1		
Wink, J. C.		1				
Winsor, John A.			1			
Withinshaw, E.		1				
Wolfenden, William				1		
Wood, James A.		1				
Woodward, G. W.		1				
Wright, Robert J.			1			
Wright, S. E.	1					
Yetts, R. P.	1					
Young, R. E.		1				
Totals.	64	355	76	48	31	16

SESSIONAL PAPER No. 12

## APPENDIX B—Continued.

No. 10.—LIST of Permanent Employees of the Inland Revenue Department employed on Salary during only a portion of the Year ended March 31, 1911.

Names.	Period.	SERVICES.				
		Inside.	Excise.	Weights and Measures.	Gas.	Electric Light Inspection.
Babington, F. C . . . . .	From June 15, 1910 to March 31, 1911 . . . . .	..	..	..	1	1
Buote, T. H. . . . .	" January 25 to March 31, 1911 . . . . .	..	..	1	..	..
Campbell, A. E. . . . .	" July 1, 1910 to March 31, 1911 . . . . .	..	1	..	..	..
Clark, H. M. . . . .	" August 16, 1910 to March 31, 1911 . . . . .	..	..	..	1	1
Cotter, W. T. . . . .	" April 1 to April 30, 1910 . . . . .	..	..	..	1	1
Courchesne, P. H. E. . . . .	" April 1 to September 30, 1910 . . . . .	..	1	..	..	..
Currie, W. W. . . . .	" September 18, 1910 to March 31, 1911 . . . . .	..	1	..	..	..
Filteau, J. R. . . . .	" October 18, 1910 to March 31, 1911 . . . . .	..	1	..	..	..
Findley, H. . . . .	" April 1 to October 31, 1910 . . . . .	..	..	1	..	..
Fortier, J. J. O. . . . .	" April 1 to November 30, 1910 . . . . .	..	1	..	..	..
Franceur, A. . . . .	" December 12, 1910 to March 31, 1911 . . . . .	..	1	..	..	..
Hambley, S. E. . . . .	" February 1 to March 31, 1911 . . . . .	..	1	..	..	..
Henwood, G. . . . .	" April 1 to December 31, 1910 . . . . .	..	1	..	..	..
Gregor, R. W. . . . .	" October 14, 1910 to March 31, 1911 . . . . .	..	1	..	..	..
Grondin, V. . . . .	" January 1 to March 31, 1911 . . . . .	..	1	..	..	..
John-tone, J. K. . . . .	" April 1 to August 31, 1910 . . . . .	..	..	..	1	1
Kennin, J. H. . . . .	" April 1 to April 30, 1910 . . . . .	..	1	..	..	..
Lambe, A. B. . . . .	" June 1, 1910 to March 31, 1911 . . . . .	..	..	..	1	1
Ledoux, A. . . . .	" April 1 to September 30, 1910 . . . . .	..	1	..	..	..
Lopatecki, E. S. . . . .	" April to October 31, 1910 . . . . .	..	1	..	..	..
Mager, J. G. . . . .	" April to May 31, 1910 . . . . .	..	..	1	1	1
Macfarlane, A. C. . . . .	" April 1 to November 30, 1910 . . . . .	..	1	..	..	..
Magness, R. . . . .	" April 1 to December 31, 1910 . . . . .	..	..	1	..	..
MacLean, C. E. . . . .	" January 25 to March 31, 1911 . . . . .	..	..	1	..	..
MacLean, D. J. . . . .	" October 1, 1910 to March 31, 1911 . . . . .	..	..	1	..	..
Monforton, E. . . . .	" January 25, 1910 to March 31, 1911 . . . . .	..	1	..	..	..
Morency, J. . . . .	" April 1 to October 31, 1910 . . . . .	..	1	..	..	..
McCraney, H. P. . . . .	" April 1 to September 14, 1910 . . . . .	..	1	..	..	..
McCuaig, A. F. . . . .	" April 1 to April 30, 1910 . . . . .	..	1	..	..	..
Nicholl, F. A. . . . .	" January 1 to March 31, 1911 . . . . .	..	1	..	..	..
Parkin, M. R. . . . .	" April 1 to September 17, 1910 . . . . .	..	1	..	..	..
Parsons, C. H. . . . .	" April 1, 1910 to January 31, 1911 . . . . .	..	1	..	..	..
Pitman, C. . . . .	" November 15, 1910 to March 31, 1911 . . . . .	..	1	..	..	..
Reesor, M. W. . . . .	" October 1, 1910 to March 31, 1911 . . . . .	..	..	..	..	1
Ross, J. I. N. . . . .	" January 25 to March 31, 1911 . . . . .	..	..	1	..	..
Shaw, F. D. . . . .	" April 1 to June 30, 1910 . . . . .	..	1	..	..	..
Tétreault, J. . . . .	" April 1 to May 31, 1910 . . . . .	..	1	..	..	..
Toale, J. . . . .	" March 21 to March 31, 1910 . . . . .	..	..	..	1	1
Walker, J. H., jr. . . . .	" December 6, 1910 to March 31, 1911 . . . . .	..	1	..	..	..
Walker, J. H., sr. . . . .	" April 1 to October 31, 1910 . . . . .	..	1	..	..	..
Walton, G. . . . .	" February 18 to March 31, 1911 . . . . .	..	..	1	..	..
Wardell, R. S. R. . . . .	" April 1 to June 30, 1910 . . . . .	..	1	..	..	..
Weeks, W. A. . . . .	" March 3 to March 31, 1911 . . . . .	..	1	..	..	..
Withers, S. W. . . . .	" March 2 to March 31, 1911 . . . . .	..	..	..	1	1
Wood, C. T. . . . .	" July 1, 1910 to March 31, 1911 . . . . .	..	1	..	..	..
Totals . . . . .		1	28	8	8	9

APPENDIX B—*Concluded.*

No. 10.—NUMBER of Permanent Employees of the Inland Revenue Department and the different services in which they were employed during the Year ended March 31, 1911—*Concluded*

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 RECAPITULATION.

Employed during the year .....	524
"        a portion of the year .....	45
Total .....	<u>569</u>

## SERVICES.

Inside .....	65
Excise .....	350
Weights and Measures .....	77
Gas .....	6
Electric Light .....	3
Preventive .....	2
Food .....	1
Excise, and Weights and Measures .....	1
"    Weights, and Measures and Gas .....	1
"    and Gas .....	12
"    Gas and Electric Light .....	6
"    and Food .....	13
"    Weights and Measures, Gas and Electric Light .....	2
Weights, Measures, Gas and Electric Light .....	2
"    "    and Food .....	1
"    "    and Gas .....	1
Gas and Electric Light .....	25
Gas, Electric Light and Food .....	<u>1</u>
	569

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W. J. GERALD,  
*Deputy Minister.*

INLAND REVENUE DEPARTMENT,  
 OTTAWA, June 16, 1911.



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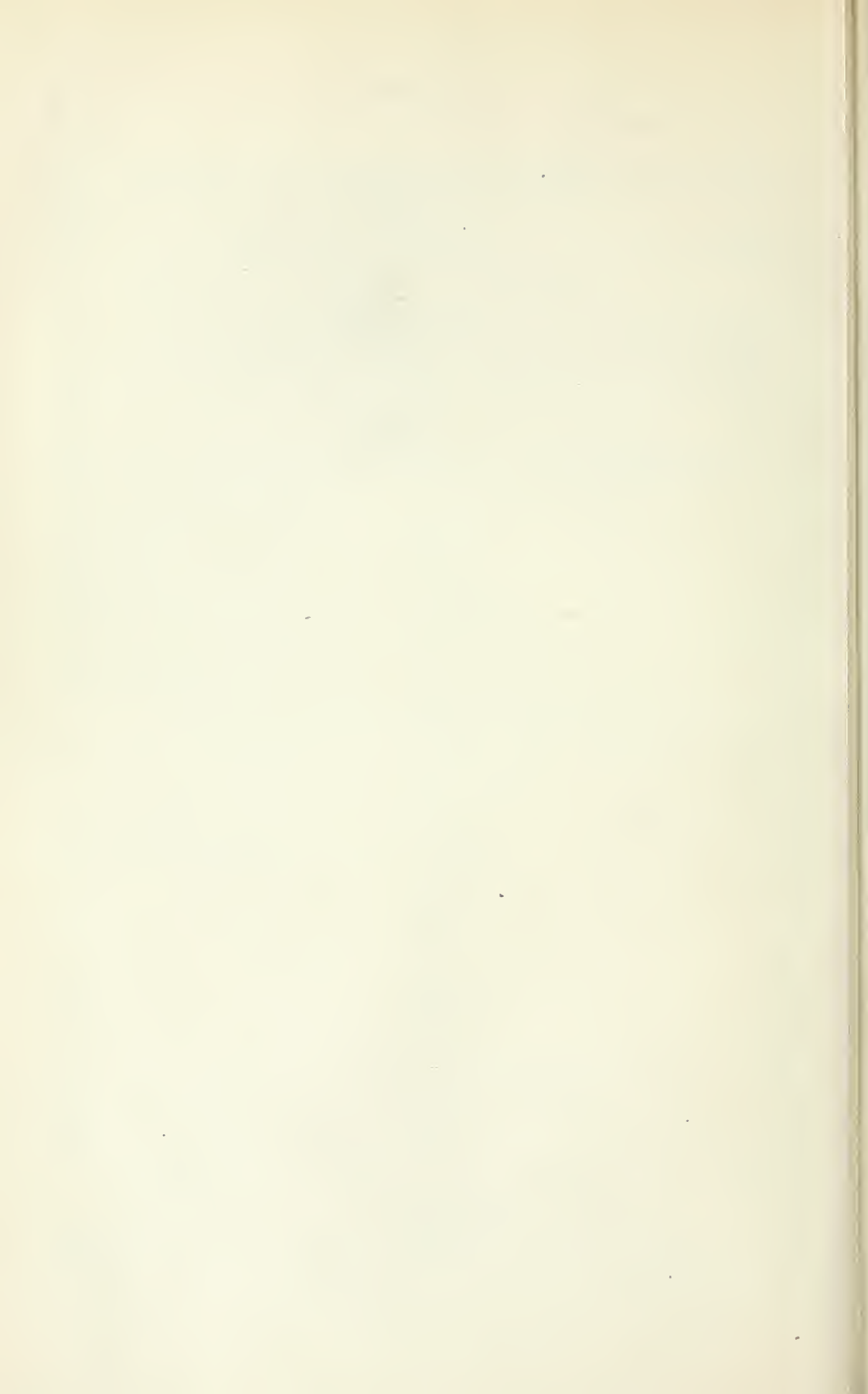
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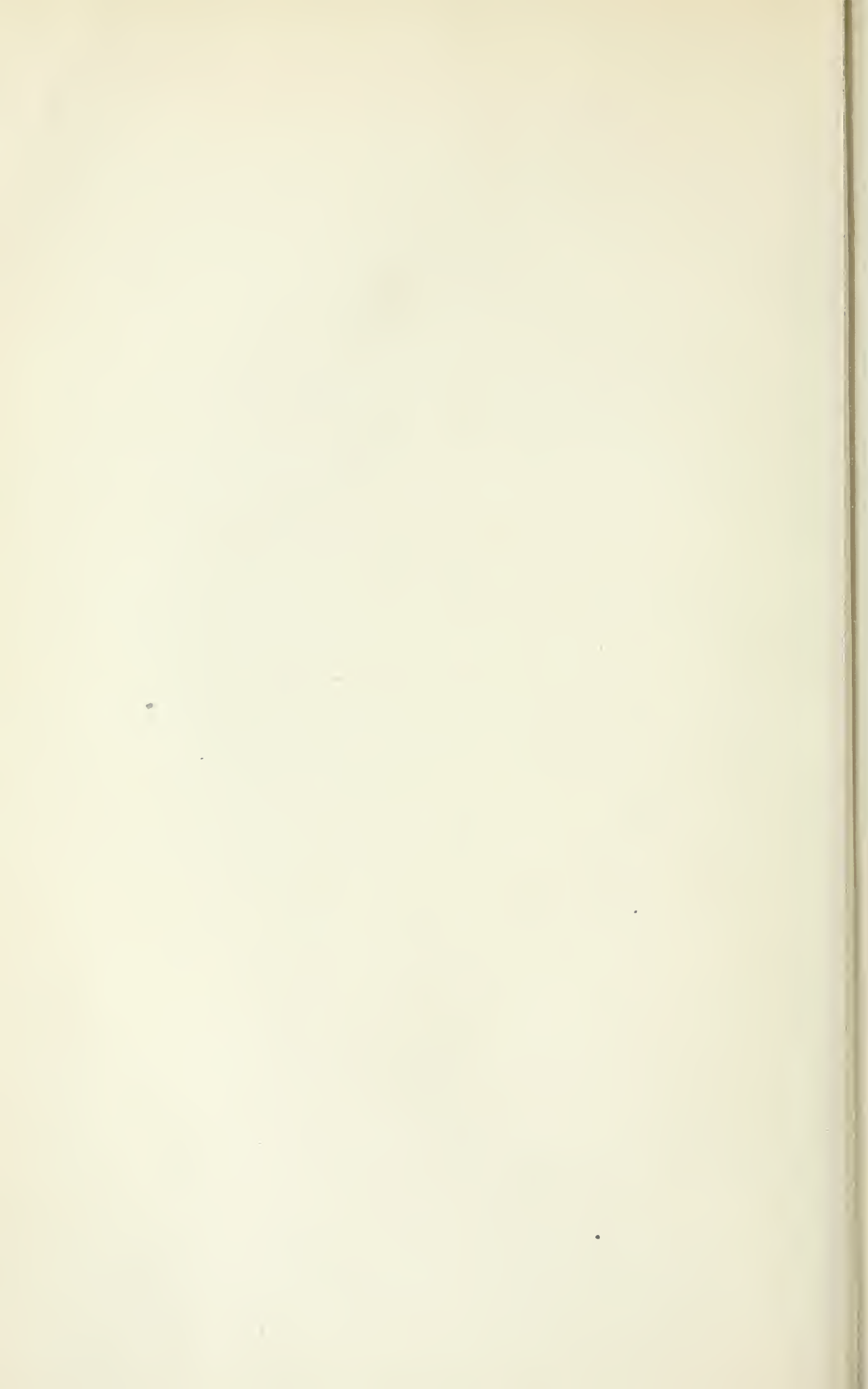
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REPORTS, RETURNS AND STATISTICS  
OF THE  
INLAND REVENUES  
OF THE  
DOMINION OF CANADA

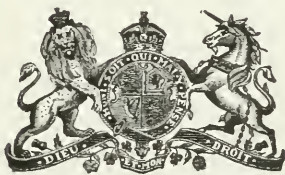
FOR THE YEAR ENDED MARCH 31

1911

PART II

WEIGHTS AND MEASURES, GAS AND ELECTRICITY

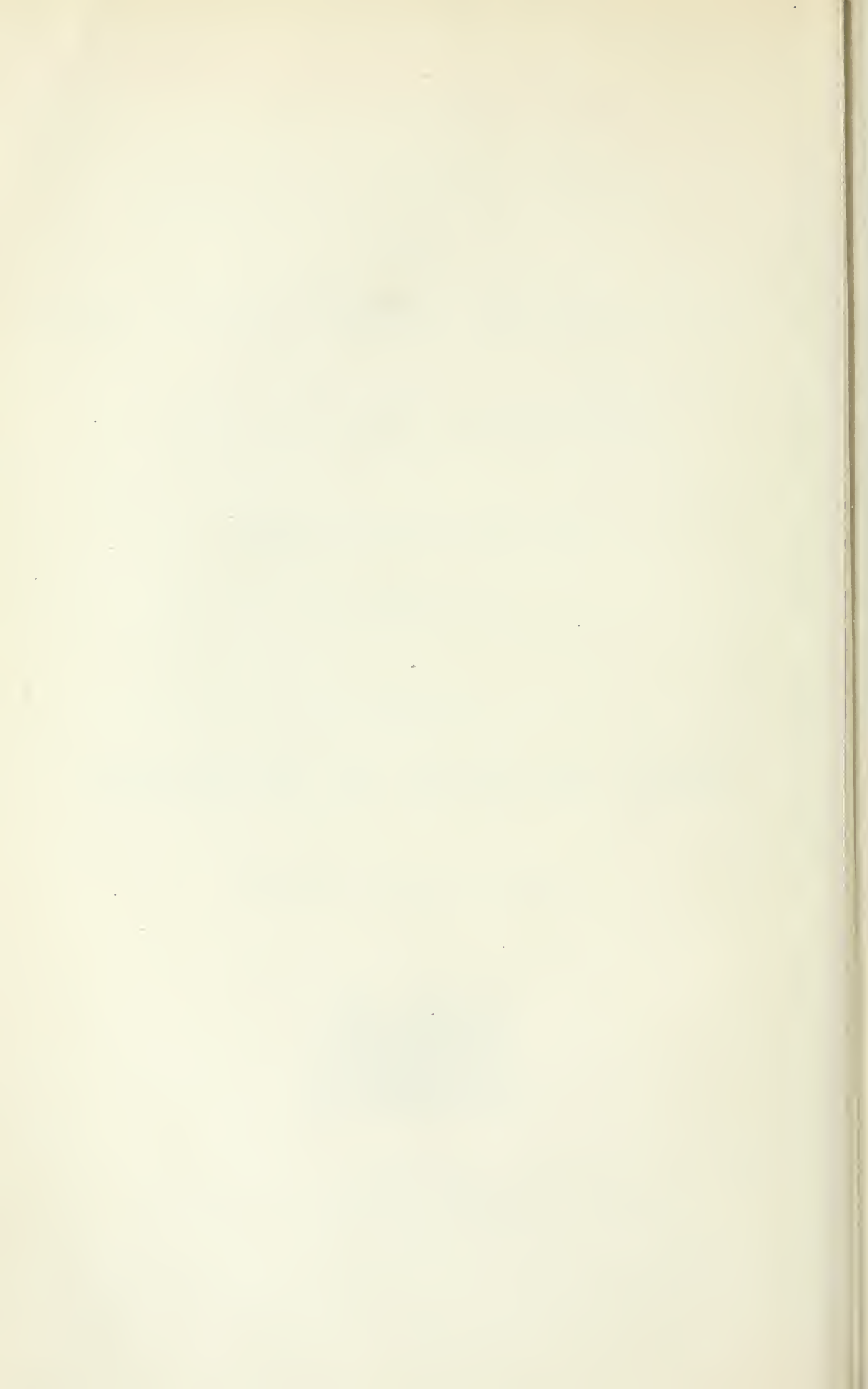
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OTTAWA

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EXCELLENT MAJESTY

1911



# 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, 1911.

1. The total revenue collected during the year for the inspection of weights and measures, was \$98,661.80, as against \$92,814.05 collected during the twelve months ended March 31, 1910.

2. The total expenditure was \$117,062.15, as against \$110,281.62 expended during the year ended March 31, 1910.

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.....	71,297	70,897	400	·561
Measures of capacity, Dominion.....	114,686	114,651	35	30
Lineal measures.....	11,041	10,948	93	·842
Balances, equal arms.....	14,719	14,355	364	2·473
"    steelyards.....	5,117	4,963	154	3·009
"    platform scales.....	48,278	46,790	1,488	3·082
Miscellaneous weights.....	1,718	1,691	27	1·571
"    measures of capacity.....	7,953	7,908	45	·566
"    balances.....	48,304	48,095	209	·432

## INSPECTION OF GAS.

5. The total revenue collected during the twelve months ended March 31, 1911, for the inspection of gas and gas meters, was \$52,567.25 as compared with \$54,331.20 collected during the year ended March 31, 1910.

6. The total expenses were \$38,217.63 as against \$36,633.55 expended during the year ended March 31, 1910.

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

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

9. 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.
Barrie .....	12		St. Catharines.....	12	
Belleville.....	24	1	St. Thomas .....	24	
Berlin .....	12	1	Toronto.....	104	1
Brockville.....	20		Windsor ..		
Cobourg .....	12		Woodstock.....	12	
Cornwall.....			Montreal.....	105	
Deseronto.....	10		Quebec.....	24	
Guelph.....	12		Sherbrooke .....	12	
Hamilton .....	26		St. Hyacinthe.....	12	
Ingersoll.....	12	6	Fredericton .....	4	
Kingston.....	14		Moncton.....	12	
Listowel .....	12		St. John, N.B.....	15	
London.....	109	4	Halifax .....	12	
Napanee.....	11		Yarmouth.....	11	
Ottawa .....	104		Charlottetown.....	12	1
Owen Sound .....	12		Winnipeg.....	104	91
Peterborough.....	24		Nanaimo.....	12	
Port Hope.....	12		New Westminster.....	12	
Sarnia .....			Vancouver .....	66	61
Stratford.....	12		Victoria.....	13	4

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

Fees for inspection of meters, &c..... \$ 59,583 00

The expenses of inspection (annual)....\$ 21,513 51

Expended on standard instruments, and  
maintenance of equipment..... 3,653 89

25,167 40

Leaving a net revenue of... ..\$ 84,750 40

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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 (nine months) .....	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

\* Exclusive of cost of standard instruments.

On July 1, 1909, there was brought into effect new schedules of fees for the inspection of meters, for gas and electricity, which it was expected would tend to decrease the revenue from these sources. Notwithstanding these reductions the excess of revenue over expenditure has increased. This has been due, to a great extent, to the increase in the use of electrical energy for light, heat and power purposes.

On the 1st of July, 1911, a further and more extensive reduction of fees took place and I have no doubt that the revenue after this next fiscal year will exceed but little, if at all, the expenditure connected with this branch of the service.

Since my last report it has been deemed advisable to divide the Dominion into two districts for Gas and Electricity inspection purposes, the Western district embracing the territory within the Provinces of Manitoba, Saskatchewan, Alberta and British Columbia and the Eastern district comprising the Provinces of Ontario, Quebec, New Brunswick, Nova Scotia, and Prince Edward Island. A chief Inspector has been appointed for each of these districts and it is believed that the result thereof will be a more efficient administration of the Acts governing the inspection of gas and electricity.

The kindred service of weights and measures inspection, it will be observed, earned as in the case of the previous year about 84 per cent of its actual cost, the expenditure as already stated having been \$117,062.15 against a revenue of \$98,661.80.

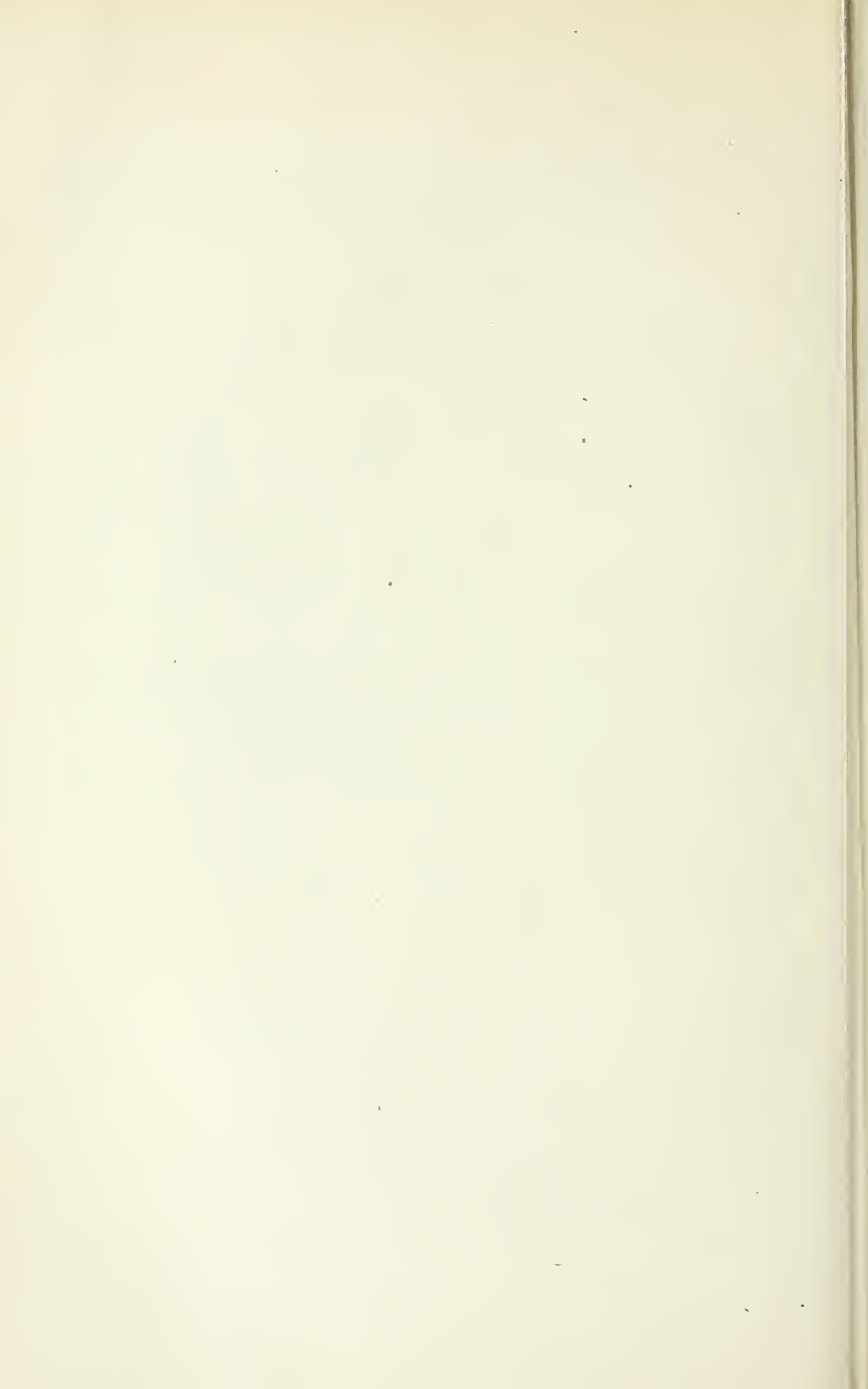
As stated in my last report, the department has, in the last few years, sent out, for use in educational institutions, over seven hundred sample sets of metric weights and measures. The supply is now exhausted and no additional sets have yet been ordered.

I have the honour to be, sir,

Your obedient servant,

W. J. GERALD,  
*Deputy Minister.*

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.





## APPENDIX A.

STATEMENT of Weights and Measures Expenditures and Revenues for the Fiscal Year ended March 31, 1911.

Inspection Divisions.	Inspectors and Assistants.	EXPENDITURES.							Revenues.
		Salaries.	Special Assistance.	Seizures.	Rent.	Travelling Expenses.	Sundries.	Total.	
		\$ cts.	\$ cts.	\$ c.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Belleville...	Johnson, Wm. .... Slattery, T. .... Kylie, R. .... Howson, G. H. ....	3,450 00			422 50	634 50	362 26	4,869 26	2,038 85
Hamilton ..	Sealey, J. C. .... Laidman, R. H. .... Wheatley, A. E. .... Fitzgerald, E. W. .... Marentette, E. .... Robins, S. W. .... Clegg, Jos. ....	6,849 70				1,564 79	92 77	8,507 26	10,215 37
Kingston. .	Gallagher, Thos. . Johnston, C. W. .... McLean, C. E. ....	2,099 94	480 00			372 54	48 90	3,001 38	1,719 05
London.....	Butler, F. H. .... Conghlin, D. .... Hughes, R. A. .... Thomas, J. S. .... Liddle, D. ....	4,823 16				2,219 10	279 40	7,321 66	12,208 35
Ottawa.....	Macdonald, J. A. .... Winsor, John .... Breen, J. .... Findlay, R. .... Hodgins, H. A. .... Church, G. C. ....	5,399 80				960 45	94 22	6,454 47	3,333 61
Toronto....	McConvey, J. J. .... Milligan, R. J. .... Murdoch, Jas. .... Smith, J. C. .... Wright, R. J. .... Cruikshank, J. L. .... Lyons, A. ....	7,133 03				2,262 85	159 01	9,554 89	13,032 53
	Ontario.....	29,755 63	480 00		422 50	8,014 23	1,036 56	39,708 92	42,547 76
Montreal...	Archambault, J. E. .... Daoust, J. A. .... Hébert, J. A. P. .... Boudet, E. .... Beaulac, J. H. .... Hall, H. C. .... Wilson, J. C. .... Galipeau, J. B. N. .... Macbeth, W. ....	7,949 72	550 00		1,000 00	2,063 27	153 64	11,716 63	12,399 00

APPENDIX A—*Continued.*

STATEMENT of Weights and Measures Expenditures and Revenues for the Fiscal Year ended March 31, 1911.

Inspection Divisions.	Inspectors and Assistants.	EXPENDITURES.							Revenues.
		Salaries.	Special Assistance.	Seizures.	Rent.	Travelling Expenses.	Sundries.	Total.	
		\$ cts.	\$ cts.	\$ c.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Quebec.....	Roy, C. E.....								
	Guay, Alph.....								
	Lebel, J. A. W.....								
	Préfontaine, F. H.....								
	Knowles, Chas.....								
	Bourget, L. J.....	7,133 10	600 00	....	400 00	2,158 12	273 75	10,564 97	5,113 15
	Leblond, J. B.....								
	Bugeaud, J. F.....								
St. Hyacinthe.....	Caldwell, A. B.....								
	Gauvin, B.....								
	Morin, J. P.....								
	Tomlinson, W. M.....								
	Thérien, J. F.....								
	Dessert, V.....	3,974 83	1,282 45	....		2,263 29	208 45	7,669 02	9,239 18
	Desmarais, A.....								
	Hall, H. C.....								
Three Rivers.....	Breen, J.....								
	Winsor, J.....								
	Findlay, Wm.....								
Quebec.....	Gravel, A. I.....	1,799 90				107 70	38 41	1,946 01	353 75
	Bolduc, E.....								
St. John N.B.....	Quebec.....	20,857 55	2,432 45	....	1,400 00	6,532 38	674 25	31,896 63	27,105 08
	Barry, James.....								
	Bernier, J. A.....	3,600 00				871 48	41 29	4,512 77	3,193 30
	Leblanc, F. X.....								
	White, H. E.....								
Cape Breton.....	Lawrence, G. C.....	1,000 01			50 00	370 29	51 93	1,472 23	712 13
	Dustan, W. M.....								
Halifax.....	Cochrane, J. A.....	1,749 84	799 92	....	501 84	635 47	158 18	3,845 25	1,177 87
	Waugh, R.....								
Pictou.....	Sargent, F. H.....	1,949 97				253 60	65 15	2,268 72	674 86
	Dustan, Wm.....								
	Chisholm, J. J.....								
Charlotte-town, P. E. I.....	Nova Scotia.....	4,699 82	799 92	....	551 84	1,259 36	275 26	7,586 20	2,565 46
	Davy, E.....	1,762 44				203 47	86 29	2,052 20	546 18
	Hughes, H.....								
Winnipeg, Man.....	Magness, R.....								
	Walton, Geo.....								
	Gilby, W. F.....								
	Mekay, R.....	4,248 92	949 96	....		1,648 21	152 82	6,999 91	8,215 84
	Mager, J. G.....								
	Spicer, H.....								
	Grant, C. D.....								
	Bnote, P. H.....								
Saskatoon, Sask.....	McLan, D.....								
	Grant W. M.....	1,233 31	945 60	....		2,433 47	154 71	4,767 09	4,738 71
	Ross, I. N.....								
	Hunter, J. H.....								

SESSIONAL PAPER No. 13

## APPENDIX A—Continued.

STATEMENT of Weights and Measures Expenditures and Revenues for the Fiscal Year ended March 31, 1911.

Inspection Divisions.	Inspectors and Assistants.	EXPENDITURES.							Revenues.
		Salaries.	Special Assistance.	Seizures.	Rent.	Travelling Expenses.	Sundries.	Total.	
		\$ cts.	\$ cts.	\$ c.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Calgary, Alta. . . . .	Costello, J. W. . . . . Cook, John. . . . . Wilson, W. G. . . . .	2,216 60	549 98	.....	.....	2,660 20	248 79	5,675 57	5,072 20
Nelson. . . . .	Parker, Thos. . . . .	1,200 09	.....	.....	.....	1,185 20	56 25	2,441 45	1,226 30
Vancouver. . . . .	Marshall, Robt. . . . . Findlay, H. . . . . Shaw, J. . . . . Harris, W. H. . . . . Dutton, A. H. . . . .	3,824 76	.....	.....	.....	218 45	484 90	4,523 11	4,424 95
	British Columbia.	5,024 76	.....	.....	.....	1,403 65	541 15	6,969 56	3,651 25
Dawson, Yukon. . . . .	Macdonald, J. F. . . . .	1,000 00	.....	.....	.....	258 25	6 20	1,264 45	117 00
	Testing milk glasses. . . . .	.....	.....	.....	.....	.....	.....	.....	674 61

## RECAPITULATION.

	EXPENDITURES.							Revenues.
	Salaries.	Special Assistance.	Seizures.	Rent.	Travelling Expenses.	Sundries.	Total.	
	\$ cts.	\$ cts.	\$ c.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Ontario. . . . .	29,755 63	489 00	.....	422 50	8,014 23	1,036 56	39,708 92	42,547 76
Quebec. . . . .	20,857 55	2,432 45	.....	1,400 00	6,532 38	674 25	31,896 63	27,105 08
New Brunswick. . . . .	3,600 00	.....	.....	.....	871 48	41 29	4,512 77	3,193 30
Nova Scotia. . . . .	4,609 82	799 92	.....	551 84	1,259 36	275 26	7,586 20	2,565 46
Prince Edward Island. . . . .	1,762 44	.....	.....	.....	203 47	86 29	2,052 20	546 18
Manitoba. . . . .	4,248 92	949 96	.....	.....	1,648 21	152 82	6,999 91	8,215 84
Saskatchewan. . . . .	1,233 31	945 60	.....	.....	2,433 47	151 71	4,767 09	4,738 71
Alberta. . . . .	2,216 60	549 98	.....	.....	2,660 20	248 79	5,675 57	5,072 20
British Columbia. . . . .	5,024 76	.....	.....	.....	1,403 65	541 15	6,969 56	3,651 25
Yukon. . . . .	1,000 00	.....	.....	.....	258 25	6 20	1,264 45	117 00
Testing milk glasses. . . . .	.....	.....	.....	.....	.....	.....	.....	674 61
Chief Inspector. . . . .	.....	.....	.....	.....	443 50	48 91	492 41	.....
General contingencies. . . . .	.....	.....	.....	.....	.....	2,063 73	2,063 73	.....
Metric system. . . . .	.....	.....	.....	.....	.....	9 96	9 96	.....
Printing. . . . .	.....	.....	.....	.....	.....	1,237 38	1,237 38	.....
Stationery. . . . .	.....	.....	.....	.....	.....	562 23	562 23	.....
Lithographing. . . . .	.....	.....	.....	.....	.....	362 88	362 88	.....
Provisional allowance. . . . .	.....	.....	.....	.....	.....	690 89	690 89	.....
International Bureau of Weights and Measures. . . . .	.....	.....	.....	.....	.....	209 37	209 37	.....
	74,399 03	6,157 91	.....	2,374 34	25,728 20	8,402 67	117,062 15	98,427 39

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.W. J. GERALD,  
Deputy Minister.

2 GEORGE V., A. 1912

## 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.			Mis- cellaneous.			Dominion.			Miscellaneous.		
	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.
Belleville.....	1,236	1,236	...	...	...	...	37	37	...	670	670	...	70	70	...
Hamilton.....	10,961	10,950	11	...	...	...	35	35	...	6,843	6,843	...	432	418	14
Kingston.....	625	625	...	...	...	...	3	3	...	1,987	1,987	...	7	7	...
London.....	3,659	3,657	2	...	...	...	18	18	...	25,599	25,599	...	25	25	...
Ottawa.....	3,564	3,560	4	...	...	...	...	...	...	1,397	1,397	...	73	73	...
Toronto.....	10,302	10,154	148	...	...	...	158	156	2	23,796	23,783	13	2,699	2,686	13
Ontario.....	30,347	30,182	165	...	...	...	251	249	2	60,294	60,279	15	3,306	3,279	27
Montreal.....	9,237	9,216	21	271	271	...	124	124	...	27,590	27,590	...	1,087	1,087	...
Quebec.....	6,717	6,572	145	...	...	...	737	713	24	7,058	7,054	4	147	147	...
St. Hyacinthe.....	12,440	12,440	...	...	...	...	502	502	...	4,199	4,199	...	186	186	...
Three Rivers.....	522	522	...	...	...	...	2	2	...	389	389	...	...	...	...
Quebec.....	23,916	23,750	166	271	271	...	1,345	1,341	24	39,236	39,232	4	1,420	1,420	...
St. John, N.B.....	2,875	2,874	1	...	...	...	31	31	...	5,767	5,765	2	1,870	1,870	...
Cape Breton.....	233	233	...	...	...	...	3	2	1	368	358	10	40	40	...
Halifax.....	1,165	1,165	...	3	3	...	21	21	...	754	754	...	222	216	6
Pictou.....	463	463	...	...	...	...	4	4	...	451	451	...	97	97	...
Nova Scotia.....	1,861	1,861	...	3	3	...	28	27	1	1,573	1,563	10	359	353	6
Charlottetown, P.E.I.....	627	627	...	...	...	...	...	...	...	119	119	...	25	25	...
Winnipeg, Man.....	3,795	3,730	65	...	...	...	21	21	...	6,744	6,743	1	777	765	12
Regina, Sask.....	586	586	...	...	...	...	2	2	...	239	239	...	92	92	...
Calgary, Alta.....	869	866	3	...	...	...	1	1	...	327	324	3	94	94	...
Nelson.....	484	484	...	...	...	...	2	2	...	292	292	...	10	10	...
Vancouver.....	937	937	...	...	...	...	17	17	...	45	45	...	...	...	...
British Columbia.....	1,421	1,421	...	...	...	...	19	19	...	337	337	...	10	10	...
Dawson, Yukon.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Grand Totals.....	71,297	70,897	400	274	274	...	1,718	1,691	27	114,686	114,651	35	7,953	7,908	45

## SESSIONAL PAPER No. 13

B.

1911, showing the Total Number brought for Verification, Verified and Rejected for and for the whole Dominion.

MEASURES OF LENGTH.			BALANCES, &c.											
			Equal Armed.			Steelyards.			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.	Brought for Verification.	Verified.	Rejected.
110	110	....	265	265	....	56	56	....	857	897	....	198	198	....
863	845	18	2,464	2,310	154	1,865	1,812	53	5,891	5,279	612	3,586	3,550	36
68	68	....	109	109	....	21	21	....	846	846	....	519	519	....
2,417	2,417	....	775	766	9	284	278	6	6,758	6,647	111	5,299	5,277	13
287	287	....	474	458	16	10	10	....	1,513	1,486	57	899	899	....
1,818	1,818	..	2,410	2,293	117	364	296	68	4,805	4,550	255	13,030	12,929	101
5,563	5,545	18	6,497	6,201	296	2,600	2,473	127	20,740	19,705	1,035	23,522	23,372	150
2,724	2,724	....	1,930	1,899	31	1,256	1,246	10	5,870	5,741	129	6,937	6,924	13
1,077	1,007	70	1,052	1,032	20	314	307	7	2,333	2,301	32	1,206	1,202	4
420	420	....	2,761	2,759	5	461	460	1	7,824	7,767	57	1,116	1,115	1
....	....	....	80	80	....	4	4	....	216	213	3	11	11	....
4,221	4,151	70	5,826	5,770	56	2,035	2,017	18	16,243	16,022	221	9,270	9,252	18
61	61	....	631	631	....	39	38	1	1,805	1,792	13	1,167	1,167	....
65	60	5	74	72	2	49	48	1	222	221	1	67	66	1
9	9	....	298	298	....	32	32	....	673	663	10	235	235	....
117	117	....	109	109	....	9	9	....	336	336	....	76	76	....
191	186	5	481	479	2	90	89	1	1,231	1,220	11	378	377	1
3	3	....	124	124	....	17	17	....	333	338	....	282	282	....
554	554	....	602	593	9	108	101	7	2,772	2,640	132	9,564	9,537	27
65	65	....	101	101	....	2	2	....	1,795	1,755	40	338	338	....
286	286	....	150	149	1	73	73	....	1,737	1,701	36	719	707	12
97	97	....	91	91	....	57	57	....	556	556	....	210	209	1
.....	.....	....	213	213	....	90	90	....	1,010	1,010	....	2,850	2,850	....
97	97	....	304	304	....	147	147	....	1,566	1,566	....	3,060	3,059	1
....	.....	....	3	3	....	6	6	....	51	51	....	4	4	....
11,341	10,948	93	14,719	14,355	364	5,117	4,963	154	48,278	46,790	1,483	48,304	48,095	209



2 GEORGE V., A. 1912

## APPENDIX

RETURN showing the Number of Dominion Weights and Lineal Measures of  
March 31,

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. ....						14		82	151	209	249	187	105	88	68
Hamilton. ....	2207					14		233	456	1,579	2,659	1,959	470	389	360
Kingston. ....	2	1			1	12		26	46	63	136	136	59	44	41
London. ....						20		93	134	389	795	717	350	343	313
Ottawa. ....	340					1		61	48	167	232	268	398	388	370
Toronto. ....	128					179		736	886	1,098	2,882	2,113	491	461	416
Ontario. ....	2677	1			1	240		1,231	1,721	3,505	6,953	5,380	1,873	1,713	1,569
Montreal. ....		9			1	104		550	419	846	1,760	1,672	1,042	950	791
Quebec. ....	1	28	11	1	15	60		448	511	690	1,017	1,014	891	734	701
St. Hyacinthe				1	2	83		494	1,726	2,455	3,092	1,982	836	620	569
Three Rivers						6		44	16	73	95	84	65	63	45
Quebec. ....	1	37	11	2	18	253		1,536	2,672	4,064	5,961	4,752	2,834	2,367	2,046
St. John. ....		8	2	2	2	9		135	212	365	770	594	275	215	166
Cape Breton. ....						6		13	31	36	54	60	29	2	1
Halifax. ....						4		37	83	101	362	293	105	57	53
Pictou. ....						3		18	27	44	134	110	31	26	25
Nova Scotia. .						13		68	141	181	550	463	165	85	79
Charlottetown, P. E. I. ....						3		19	27	54	176	128	50	46	39
Winnipeg, Man. ....		3		1	4	39		76	193	293	785	704	327	231	231
Regina. ....						15		37	31	22	121	93	42	42	43
Calgary. ....		8	2		2	18		44	37	6	208	161	57	53	48
Nelson. ....								2	20	25	113	97	49	42	38
Vancouver. ....		8	12	14	21	8		15	49	59	222	190	89	56	50
British Columbia. ....		8	12	14	21	8		17	69	84	335	287	138	98	88
Dawson. ....															
Grand totals. ....	1 2741	28	19		48	598		3,163	5,103	8,630	15,842	12,562	5,761	4,850	4,309

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.



## SESSIONAL PAPER No. 13

C.

Denomination presented in each Inspection Division during the Fiscal Year ended 1911.

WEIGHTS.								LINEAL MEASURES.												
dupois.																				
1 oz.	8 drs.	4 drs.	2 drs.	1 dr.	½ dr.	Total Number.	Troy Weights.	Miscellaneous Weights.	6 feet.	5 feet.	1 yard.	½ yard.	2 feet.	1 foot.	½ foot.	100 feet chains.	66 feet chains.	Tape or ribband.	Total number.	Miscellaneous measures.
50	23	9	1	....	....	1,236	....	37	....	....	110	....	....	....	....	....	....	....	110	....
340	199	74	14	8	....	10,961	....	35	....	....	863	....	....	....	....	....	....	....	863	....
30	14	8	3	3	....	625	....	3	....	....	68	....	....	....	....	....	....	....	68	....
269	155	73	8	....	....	3,659	....	18	....	....	2,417	....	....	....	....	....	....	....	2,417	....
351	315	617	6	2	....	3,564	....	....	....	....	287	....	....	....	....	....	....	....	287	....
357	241	118	77	118	....	16,392	....	158	....	....	1,818	....	....	....	....	....	....	....	1,818	....
1,397	947	899	109	131	....	30,347	....	251	....	....	5,563	....	....	....	....	....	....	....	5,563	....
495	252	157	85	104	....	9,237	271	124	....	....	2,724	....	....	....	....	....	....	....	2,724	....
430	96	46	17	6	....	6,717	....	737	....	....	1,677	....	....	....	....	....	....	....	1,677	....
369	211	45	10	4	1	12,440	....	502	....	....	420	....	....	....	....	....	....	....	420	....
22	9	....	....	....	....	522	....	2	....	....	....	....	....	....	....	....	....	....	....	....
1,316	568	248	112	114	1	28,916	271	1,365	....	....	4,221	....	....	....	....	....	....	....	4,221	....
92	33	14	1	....	....	2,875	....	31	....	....	61	....	....	....	....	....	....	....	61	....
1	....	....	....	....	....	233	....	3	....	....	65	....	....	....	....	....	....	....	65	....
47	19	4	....	....	....	1,165	3	21	....	....	9	....	....	....	....	....	....	....	9	....
20	14	8	1	2	....	463	....	4	....	....	117	....	....	....	....	....	....	....	117	....
68	33	12	1	2	....	1,861	3	28	....	....	191	....	....	....	....	....	....	....	191	....
37	24	15	6	3	....	627	....	....	....	....	3	....	....	....	....	....	....	....	3	....
221	194	167	145	181	....	3,795	....	21	....	....	554	....	....	....	....	....	....	....	554	....
39	35	30	18	11	7	586	....	2	....	....	65	....	....	....	....	....	....	....	65	....
49	47	39	12	21	1	869	....	1	....	....	286	....	....	....	....	....	....	....	286	....
35	31	22	9	1	....	484	....	2	....	....	97	....	....	....	....	....	....	....	97	....
50	36	31	27	....	....	937	....	17	....	....	....	....	....	....	....	....	....	....	....	....
85	67	53	36	1	....	1,421	....	19	....	....	97	....	....	....	....	....	....	....	97	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3,304	1,948	1,477	440	464	9	71,297	274	1,718	....	....	11,041	....	....	....	....	....	....	....	11,041	....

W. J. GERALD,  
Deputy Minister.

2 GEORGE V., A. 1912

## APPENDIX

RETURN showing the Number of Dominion Weights and Lineal Measures of  
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 lbs.	8 ozs.	4 ozs.	2 ozs.
Belleville .....						14		82	151	209	249	187	105	88	68
Hamilton .....	2207					14		232	454	1,579	2,658	1,958	469	388	359
Kingston .....	2	1			1	12		26	46	63	136	136	59	44	41
London .....						20		93	133	389	795	717	350	343	312
Ottawa .....	340					1		59	46	167	232	268	398	388	370
Toronto .....	128					178		731	880	1,078	2,844	2,079	474	449	407
Ontario .....	2677	1			1	239		1,223	1,710	3,485	6,914	5,345	1,855	1,700	1,557
Montreal .....		9			1	104		549	418	842	1,758	1,669	1,039	947	789
Quebec .....	1	18	10		12	59		435	495	679	994	993	876	720	692
St. Hyacinthe .....				1	2	83		494	1,726	2,455	3,092	1,982	836	620	509
Three Rivers .....						6		44	16	73	95	84	65	63	45
Quebec .....	1	27	10	1	15	232		1,522	2,655	4,049	5,939	4,728	2,816	2,350	2,035
St. John .....		8	2	2	2	9		135	212	364	750	594	275	215	166
Cape Breton .....						6		13	31	36	54	60	29	2	1
Halifax .....						4		37	83	101	362	293	105	57	53
Pictou .....						3		18	27	44	134	110	31	26	25
Nova Scotia .....						13		68	141	181	550	463	165	85	79
Charlottetown, P.E.I. ....						3		19	27	54	176	128	50	46	39
Winnipeg, Man. ....		3		1	4	39		76	193	293	785	704	325	193	209
Regina, Sask. ....						15		37	31	22	121	93	42	42	43
Calgary, Alta. ....		8	2		2	18		44	37	62	207	160	56	53	48
Nelson .....								2	20	25	113	97	49	42	38
Vancouver .....		8	12	14	21	8	15	49	59	222	190	89	56	50	50
British Columbia .....		2	12	14	21	8	15	51	79	247	303	186	105	92	88
Dawson .....															
Grand totals .....	1	2731	27	18	45	596	15	3,175	5,085	8,757	15,745	12,401	5,689	4,776	4,264

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

## SESSIONAL PAPER No. 13

C—Continued.

Domination verified in each Inspection Division during the Fiscal Year ended 31, 1911.

WEIGHTS.							Troy Weights.	Miscellaneous Weights.	LINEAL MEASURES.										Miscellaneous numbers.	
DUPOIS.									6 feet.	5 feet	1 yard.	$\frac{1}{2}$ yard.	2 feet.	1 foot.	$\frac{1}{2}$ foot.	100 feet chains.	66 feet chains.	Tape or ribband.		Total number.
1 oz.	8 drs.	4 drs.	2 drs.	1 dr.	$\frac{1}{2}$ dr.	Total Number.														
50	23	9	1	...	...	1,236	...	37	...	...	110	...	...	...	...	...	...	...	110	...
339	198	73	14	8	...	10,950	...	35	...	...	845	...	...	...	...	...	...	...	845	...
30	14	8	3	3	...	625	...	3	...	...	68	...	...	...	...	...	...	...	68	...
269	155	73	8	...	...	3,657	...	18	...	...	2,417	...	...	...	...	...	...	...	2,417	...
351	315	617	6	2	...	3,560	...	...	...	...	287	...	...	...	...	...	...	...	287	...
354	239	118	77	118	...	10,154	...	156	...	...	1,818	...	...	...	...	...	...	...	1,818	...
1,393	944	898	109	131	...	30,182	...	249	...	...	5,545	...	...	...	...	...	...	...	5,545	...
493	252	157	85	104	...	9,216	271	124	...	...	2,724	...	...	...	...	...	...	...	2,724	...
425	94	46	17	6	...	6,572	...	713	...	...	1,007	...	...	...	...	...	...	...	1,007	...
369	211	45	10	4	1	12,440	...	502	...	...	420	...	...	...	...	...	...	...	420	...
22	9	...	...	...	...	522	...	2	...	...	...	...	...	...	...	...	...	...	...	...
1,309	566	248	112	114	1	28,750	271	1,341	...	...	4,151	...	...	...	...	...	...	...	4,151	...
92	33	14	1	...	...	2,874	...	31	...	...	61	...	...	...	...	...	...	...	61	...
1	...	...	...	...	...	233	...	2	...	...	60	...	...	...	...	...	...	...	60	...
47	19	4	...	...	...	1,165	3	21	...	...	9	...	...	...	...	...	...	...	9	...
20	14	8	1	2	...	463	...	4	...	...	117	...	...	...	...	...	...	...	117	...
68	33	12	1	2	...	1,861	3	27	...	...	186	...	...	...	...	...	...	...	186	...
37	24	15	6	3	...	627	...	...	...	...	3	...	...	...	...	...	...	...	3	...
221	194	168	143	181	...	3,730	...	21	...	...	554	...	...	...	...	...	...	...	554	...
39	35	30	18	11	7	586	...	2	...	...	65	...	...	...	...	...	...	...	65	...
49	47	39	12	21	1	866	...	1	...	...	286	...	...	...	...	...	...	...	286	...
35	31	22	9	1	...	484	...	2	...	...	97	...	...	...	...	...	...	...	97	...
36	31	27	...	...	...	937	...	17	...	...	...	...	...	...	...	...	...	...	...	...
71	62	49	9	1	...	1,421	...	19	...	...	97	...	...	...	...	...	...	...	97	...
3,279	1,938	1,471	411	464	9	70,897	274	1,691	...	...	10,948	...	...	...	...	...	...	...	10,948	...

W. J. GERALD,  
Deputy Minister.

2 GEORGE V., A. 1912

## APPENDIX

RETURN showing the Number of Dominion Weights and Lineal Measures of each  
March 31, 1911

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.
Belleville .....													
Hamilton .....								1	2		1	1	1
Kingston .....									1				1
London .....								2	2				
Ottawa .....						1		5	6	20	38	34	17
Toronto .....													12
Ontario. ....						1		8	11	20	39	35	18
Montreal .....								1	1	4	2	3	3
Quebec .....		10	1	1	3	1		13	16	11	23	21	15
St. Hyacinthe .....													14
Three Rivers .....													
Quebec .....		10	1	1	3	1		14	17	15	25	24	18
St. John, N.B. ....										1			
Cape Breton .....													
Halifax .....													
Pictou .....													
Nova Scotia ....													
Charlottetown, P.E.I. ....													
Winnipeg, Man. ....													2
Regina, Sask. ....													33
Calgary, Alta. ....											1	1	1
Nelson .....													
Vancouver .....													
British Columbia .....													
Dawson, Yukon. ....													
Grand totals. ....	...	10	1	1	3	2		22	23	36	65	60	39
													68
													45

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

SESSIONAL PAPER No. 13

C—*Concluded.*Denomination Rejected in each Inspection Division during the Fiscal Year ended  
—*Concluded.*

WEIGHTS.							Troy Weights.	Miscellaneous Weights.	LINEAL MEASURES.										Miscellaneous Measures.	
dupois.									6 feet.	5 feet.	1 yard.	$\frac{1}{2}$ yard.	2 feet.	1 foot.	$\frac{1}{3}$ foot.	100 feet Chains.	60 feet Chains.	Tape or Ribband.		Total Number.
1 oz.	8 drs.	4 drs.	2 drs.	1 dr.	$\frac{1}{2}$ dr.	Total Number.														
1	1	1				11					18								18	
						2														
3	2					4														
						148		12												
4	3	1				165		2			18								18	
2						21														
5	2					115		24			70								70	
7	2					166		24			70								70	
						1														
								1			5								5	
								1			5								5	
		1	2			65														
						3														
11	5	2	2			400		27			93								93	

W. J. GERALD,  
Deputy Minister.



2 GEORGE V., A. 1912

## APPEN

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

INSPECTION DIVISION.	MEASURE OF CAPACITY.											
	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.
Belleville. . . . .	10	18	103	166	143	140	78	10	1	1	670	70
Hamilton. . . . .	194	117	268	935	1,305	1,953	1,888	168	8	7	6,843	432
Kingston. . . . .	18	189	278	351	278	444	406	21	1	1	1,987	7
London. . . . .	73	1,978	893	2,405	3,820	7,398	9,009	23	....	....	25,599	25
Ottawa. . . . .	....	....	....	178	448	400	285	70	17	1	1,399	73
Toronto. . . . .	37	614	941	2,771	3,212	7,192	7,810	1,204	15	....	23,796	2,699
Ontario. . . . .	332	2,916	2,483	6,806	9,206	17,527	19,476	1,496	42	10	60,294	3,306
Montreal. . . . .	1	1,162	1,424	3,022	4,209	7,439	8,000	2,001	320	12	27,590	1,087
Quebec. . . . .	1	168	268	1,267	1,873	1,629	1,273	515	61	3	7,058	147
St. Hyacinthe. . . . .	1	97	134	693	1,062	1,183	635	310	81	3	4,199	186
Three Rivers. . . . .	....	11	37	76	85	78	73	19	10	....	389	....
Quebec. . . . .	3	1,438	1,863	5,058	7,229	10,329	9,981	2,845	472	18	39,236	1,420
St. John. . . . .	....	337	313	1,173	1,884	1,130	724	205	1	....	5,767	1,870
Cape Breton. . . . .	....	1	....	86	69	127	83	2	....	....	368	40
Halifax. . . . .	....	6	2	123	262	214	112	34	1	....	754	222
Pictou. . . . .	....	4	2	63	203	150	24	5	....	....	451	97
Nova Scotia. . . . .	....	11	4	272	534	491	219	41	1	....	1,573	359
Charlottetown, P. E. I. . . . .	....	....	....	3	36	45	33	2	....	....	119	25
Winnipeg, Man. . . . .	77	....	....	1,064	1,614	2,000	1,742	244	2	1	6,744	777
Regina, Sask. . . . .	....	....	....	92	101	66	29	1	....	....	289	92
Calgary, Alta. . . . .	....	....	....	90	120	80	37	....	....	....	327	94
Nelson. . . . .	....	....	4	69	99	75	33	8	2	2	292	10
Vancouver. . . . .	....	....	....	8	6	19	12	....	....	....	45	....
British Columbia. . . . .	....	....	4	77	105	94	45	8	2	2	337	10
Dawson, Yukon. . . . .	....	....	....	....	....	....	....	....	....	....	....	....
Grand Totals. . . . .	412	4,702	4,667	14,635	20,829	31,762	32,286	4,842	520	31	114,686	7,953

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.



## SESSIONAL PAPER No. 13

## DIX D.

and Weighing Machines of each Denomination presented in each Inspection  
Year ended March 31, 1911.

## 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.			
110 1,086 42 387 326 1,063	155 1,360 66 388 145 1,407	..... ..... ..... ..... 2 .....	..... 18 1 ..... 1 .....	51 1,835 29 271 10 351	..... 16 1 8 ..... 6	4 14 ..... 4 ..... 5	1 ..... ..... 1 ..... 2	209 2,816 99 1,923 614 2,581	45 138 45 88 78 126	260 2,192 440 3,616 661 1,303	122 323 36 289 36 298	46 111 58 78 45 69	215 311 168 764 109 428	1,218 10,220 976 7,817 2,027 7,579	198 3,586 519 5,290 899 13,030	
2,954	3,521	2	20	2,538	31	27	4	8,242	520	8,472	1,104	407	1,995	29,837	23,522	
612 290 1,073 8	1,318 670 1,689 72	..... ..... 2 .....	..... 92 ..... .....	1,228 312 438 4	6 1 17 .....	3 ..... 2 .....	19 1 4 .....	1,981 943 3,568 78	1,275 689 1,071 48	1,968 565 2,614 62	115 28 182 9	147 29 136 9	384 79 253 10	9,056 3,699 11,049 300	6,937 1,206 1,116 11	
1,983	3,749	2	92	1,982	24	5	24	6,570	3,083	5,209	334	321	726	24,104	9,270	
178	453	.....	.....	36	3	.....	.....	773	311	539	37	35	110	2,475	1,167	
28 99 35	46 198 74	..... ..... .....	..... 1 .....	27 39 9	5 2 .....	15 ..... .....	2 ..... .....	85 362 141	20 60 54	44 133 73	..... 12 12	2 8 22	71 98 34	345 1,003 454	67 235 76	
162	318	.....	1	66	7	15	2	588	134	250	24	32	203	1,802	378	
41	83	.....	.....	17	.....	.....	.....	84	43	166	17	10	18	479	282	
187	408	6	1	101	7	.....	.....	708	62	937	194	315	556	3,482	9,564	
58	43	.....	.....	2	.....	.....	.....	254	12	198	47	421	863	1,898	338	
87	63	.....	.....	56	5	12	.....	405	21	529	53	133	596	1,960	719	
40 92	51 113	..... .....	..... 8	30 50	5 12	22 23	..... .....	237 422	12 41	211 429	13 47	8 4	75 67	704 1,313	210 2,850	
132	164	...	8	80	17	50	.....	659	53	640	60	12	142	2,017	3,060	
3	.....	.....	.....	.....	1	5	.....	21	6	16	7	.....	1	60	4	
5,785	8,802	10	122	4,878	95	114	30	18,304	4,245	16,956	1,877	1,686	5,210	68,114	48,304	

W. J. GERALD,  
Deputy Minister.

2 GEORGE V., A. 1912

## APPENDIX

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

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.	$\frac{1}{2}$ gill.		
Belleville.....	10	18	103	166	143	140	78	10	1	1	670	70
Hamilton.....	194	117	268	935	1,305	1,953	1,888	168	8	7	6,843	418
Kingston.....	18	189	278	351	278	444	406	21	1	1	1,987	7
London.....	73	1,978	893	2,405	3,820	7,398	9,009	23	.....	.....	25,599	25
Ottawa.....	.....	.....	.....	176	448	400	285	70	17	1	1,397	73
Toronto.....	37	614	934	2,768	3,209	7,192	7,810	1,204	15	.....	23,783	2,686
Ontario.....	332	2,916	2,476	6,801	9,203	17,527	19,476	1,496	42	10	69,279	3,279
Montreal.....	1	1,162	1,424	3,022	4,209	7,439	8,000	2,001	320	12	27,590	1,087
Quebec.....	1	168	268	1,267	1,871	1,629	1,271	515	61	3	7,054	147
St. Hyacinthe.....	1	97	134	693	1,062	1,183	635	310	81	3	4,199	186
Three Rivers.....	.....	11	37	76	85	78	73	19	10	...	389	.....
Quebec.....	3	1,438	1,863	5,058	7,227	10,329	9,979	2,845	472	18	39,232	1,420
St. John.....	.....	337	313	1,172	1,884	1,130	723	205	1	....	5,765	1,870
Cape Breton.....	.....	1	.....	86	59	127	83	2	.....	.....	358	40
Halifax.....	.....	6	2	123	262	214	112	34	1	....	754	216
Pictou.....	.....	4	2	63	203	150	24	5	.....	.....	451	97
Nova Scotia.....	.....	11	4	272	524	491	219	41	1	....	1,563	353
Charlottetown, P.E.I.....	.....	.....	.....	3	36	45	33	2	.....	.....	119	25
Winnipeg, Man.....	77	.....	.....	1,064	1,613	2,000	1,742	244	2	1	6,743	765
Regina, Sask.....	.....	.....	.....	92	101	66	29	1	.....	.....	289	92
Calgary, Alta.....	.....	.....	.....	90	119	79	36	.....	.....	.....	324	94
Nelson.....	.....	.....	4	69	99	75	33	8	2	2	292	10
Vancouver.....	.....	.....	.....	8	6	19	12	.....	.....	.....	45	.....
British Columbia.....	.....	.....	4	77	105	94	45	8	2	2	337	10
Dawson, Yukon.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grand totals.....	412	4,702	4,660	14,629	20,812	31,761	32,282	4,842	520	31	114,651	7,908

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

SESSIONAL PAPER No. 13

D—Continued.

Weighing Machines of each Denomination Verified in each Inspection Division  
March 31, 1911—Continued.

## BALANCES.

With Equal Arms.				Steel Yards with Divided Arms.				Weigh Bridges on 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.			
110	155			51	16	4	1	209	45	269	122	46	215	1,218	198	
1,956	1,236	18		1,782	14			2,646	116	1,905	265	102	245	9,401	3,559	
42	66	1		20	1			99	45	440	36	58	168	976	519	
384	382			268	5	4	1	1,904	84	3,578	276	73	732	7,691	5,277	
315	149	2	1	10				593	69	646	32	41	105	1,954	899	
977	1,316			283	6	5	2	2,496	102	1,195	283	66	408	7,139	12,929	
2,884	3,295	2	20	2,414	28	27	4	7,947	461	8,024	1,014	336	1,873	28,379	23,372	
605	1,294			1,218	6	3	19	1,964	1,258	1,921	107	141	350	8,886	6,924	
277	663	92		305	1		1	937	678	557	26	26	77	3,640	1,202	
1,072	1,685	2		437	17	2	4	3,558	1,055	2,589	182	134	249	10,986	1,115	
8	72			4				76	47	62	9	9	10	297	11	
1,962	3,714	2	92	1,964	24	5	24	6,535	3,038	5,129	324	310	686	23,809	9,252	
178	453			35	3			771	307	535	37	35	107	2,461	1,167	
27	45			26	5	15	2	85	19	44		2	71	341	66	
99	198	1		30	2			360	59	128	12	8	96	993	235	
35	74			9				141	54	73	12	22	34	454	76	
161	317		1	65	7	15	2	586	132	245	24	32	201	1,788	377	
41	83			17				84	43	166	17	10	18	479	282	
185	401	6	1	94	7			669	60	872	188	312	539	3,334	9,537	
58	43			2				250	12	195	44	413	841	1,858	338	
87	62			56	5	12		398	21	524	53	133	572	1,923	707	
40	51			30	5	22		237	12	211	13	8	75	704	209	
92	113	8		50	12	28		422	41	429	47	4	67	1,313	2,850	
132	164		8	80	17	50		659	53	640	60	12	142	2,017	3,059	
.....	1	2			1	5		21	6	16	7		1	60	4	
5,688	8,533	12	122	4,727	92	114	30	17,920	4,133	16,346	1,768	1,643	4,980	66,108	48,095	

W. J GERALD,  
Deputy Minister.

APPENDIX

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

INSPECTION DIVISION.	MEASURES OF CAPACITY.										
	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.
Belleville.....											
Hamilton.....											14
Kingston.....											
London.....											
Ottawa.....											
Toronto.....			7	3	3						13
Ontario.....			7	5	3						15
Montreal.....											
Quebec.....					2		2				4
St. Hyacinthe.....											
Three Rivers.....											
Quebec.....					2		2				4
St. John.....				1			1				2
Cape Breton.....					10						10
Halifax.....											6
Pictou.....											
Nova Scotia.....					10						10
Charlottetown, P.E.I.....											
Winnipeg, Man.....					1						1
Regina, Sask.....											
Calgary, Alta.....					1	1	1				3
Nelson.....											
Vancouver.....											
British Columbia.....											
Dawson.....											
Grand totals.....			7	6	17	1	4				35
											45

SESSIONAL PAPER No. 13

D—Continued.

Weighing Machines of each Denominations, Rejected, in each Inspection Division  
March 31, 1911—Continued.

## BALANCES.

With Equal Arms.				Steel Yards with Divided Arms.				Weigh Bridges or Platform Scales.							
5 lbs. and under.	6 lbs. to 60 lbs.	51 lbs. to 100 lbs.	100 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.	Total.	Miscellaneous.
30	124	...	...	53	...	...	...	170	22	287	58	9	66	819	36
3	6	...	...	3	3	...	...	19	4	38	13	5	32	126	13
11	5	...	...	...	...	...	...	21	9	15	4	4	4	73	...
26	91	...	...	68	...	...	...	85	24	108	15	3	20	440	101
70	226	...	...	124	3	...	...	295	59	448	90	21	122	1,458	150
7	24	...	...	10	...	...	...	17	17	47	8	6	34	170	13
13	7	...	...	7	...	...	...	6	11	8	2	3	2	59	4
1	4	...	...	1	...	...	...	10	16	25	...	2	4	63	1
...	...	...	...	...	...	...	...	2	1	...	...	...	...	3	...
21	35	...	...	18	...	...	...	35	45	80	10	11	40	295	18
...	...	...	...	1	...	...	...	2	4	4	...	...	3	14	...
1	1	...	...	1	...	...	...	...	1	...	...	...	...	4	1
...	...	...	...	...	...	...	...	2	1	5	...	...	2	10	...
1	1	...	...	1	...	...	...	2	2	5	...	...	2	14	1
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	7	...	...	7	...	...	...	39	2	65	6	3	17	148	27
...	...	...	...	...	...	...	...	4	...	3	3	8	22	40	...
...	1	...	...	...	...	...	...	7	...	5	...	...	24	37	12
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
94	270	...	...	151	3	...	...	384	112	610	109	43	230	2,006	209

W. J. GERALD,  
Deputy Minister.



## APPENDIX E.

STATEMENT of Gas Inspection Expenditures and Revenues for the Fiscal Year ended March 31, 1911.

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			7 60	7 25	114 85	133 00
Belleville.....	Johnson, Wm. . .	549 96		162 50	2 55	35 25	750 26	241 75
Berlin.....	Stuart, W. E.....	100 00			93 70	39 89	233 59	480 25
Brockville.....	Powell, J. B.....							276 25
Cobourg.....	Fraser, H.....	100 00			28 35	28 40	156 75	157 00
Cornwall.....	Bickle, J. W.....					32 50	32 50	
Guelph.....	Mulhern, M. M.....	300 00				33 47	333 47	401 00
	Broadfoot, S.....							
Hamilton.....	McPhie, D.....	3,999 92		120 00	246 75	252 15	4,618 82	6,305 00
	McPhie, W. H.....							
	Murphy, F. C.....							
	Dennis, F. C.....							
Kingston.....	Fraser, R.....							465 75
Listowell.....	Male, T.....	100 00		78 00		19 75	197 75	37 50
London.....	Nask, A. F.....	2,399 91			440 55	97 95	2,938 41	5,538 50
Napanee.....	Skelton, A. R.....							
	Johnson, Wm.....				25 55	0 35	25 90	56 50
Ottawa.....	Roche, H. G.....	3,249 88		300 00		126 52	3,676 40	1,524 75
	Roche, W. J.....							
	Bond, M. B.....							
Owen Sound.....	Graham, W. J.....	200 00				28 07	228 07	128 25
Peterborough.....	Rork, T.....	150 00				5 25	155 25	259 25
Sarnia.....	Thrasher, W. A.....	200 00				4 40	204 40	892 25
Stratford.....	Rennie, G.....	200 00				13 00	213 00	178 25
	Johnstone, J. K.....							
	Pape, J.....							
	Hunter, W. M.....							
Toronto.....	Renahan, M. J.....	5,439 54				72 92	5,512 46	16,258 00
	Ogden, G. J.....							
	Clark, H. M.....							
	Johnstone, S. F.....							
Woodstock.....	Orr, H. N.....	200 00				12 55	212 95	370 75
	Ontario.....	17,289 21		660 50	845 05	810 07	19,604 83	33,704 00
Montreal.....	Aubin, A.....	4,899 77		240 00	35 25	159 20	5,334 22	11,126 75
	O'Flaherty, M. J.....							
	Aubin, C.....							
	Mann, W.....							
Quebec.....	LeVasseur.....	1,499 96		150 00	3 95	98 40	1,752 31	535 25
	Béland, F. X. J. E.....							
Sherbrooke.....	Simpson, A. F.....	249 96					249 96	117 00
	Bowen, F. C.....							
St. Hyacinthe.....	Benoit, L. V.....	100 00					100 00	55 50
	Quebec.....	6,749 69		390 00	39 20	257 60	7,436 49	11,834 50
Fredericton.....	Wilson, J. E.....	100 00			36 10	6 40	142 50	12 00
St. John.....	Wilson, J. E.....	1,300 01			72 25	54 75	1,427 01	517 00
	New Brunswick	1,400 01			108 35	61 15	1,569 51	529 00
Halifax, N. S.....	Cotter, W. F.....	262 09	1,494 85	501 84	227 50	137 93	2,624 21	383 50
	Toale, John.....							
	Munro, H. D.....							
	Withers, S. W.....							
Charlottetown, P.E.I.	Bell, J. H.....	462 50					462 50	75 50



SESSIONAL PAPER No. 13

APPENDIX E—*Continued.*

STATEMENT of Gas Inspection Expenditures and Revenues for the Fiscal Year ended March, 31, 1911.

Districts.	Inspectors and Assistants.	EXPENDITURES.						Revenues.
		Salaries.	Special Assistance	Rent.	Travelling Expenses.	Sundries.	Total.	
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Winnipeg, Man....	Hamilton, R. ....							
	Mager, J. G. ....	2,427 73	83 33			308 90	2,909 96	2,574 75
	Babington, F. C. ....							
Nanaimo. ....	Shaw, John. ....	100 00				3 00	103 00	92 50
New Westminster. ....	Wolfenden, Wm. ....	200 00					200 00	127 75
Vancouver. ....	Stott, Jas. ....				11 50	502 95	514 45	2,712 00
Victoria. ....	Jones, R. ....	300 00				3 00	303 00	533 75
		600 00			11 50	508 95	1,120 45	3,466 00

## RECAPITULATION.

	EXPENDITURES.						Revenues.
	Salaries.	Special Assist'nce.	Rent.	Travelling Ex-penses.	Sundries.	Total.	
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Ontario. ....	17,289 21		660 50	845 05	810 07	19,604 83	33,704 00
Quebec. ....	6,749 69		390 00	39 20	257 60	7,436 49	11,834 50
New Brunswick. ....	1,400 01			108 35	61 15	1,569 51	529 00
Nova Scotia. ....	262 09	1,494 85	501 84	227 50	137 93	2,624 21	383 50
Prince Edward Island. ....	462 50					462 50	75 50
Manitoba. ....	2,427 73	83 33			308 90	2,909 96	2,574 75
British Columbia. ....	600 00			11 50	508 95	1,120 45	3,466 00
Dominion Inspe tor. ....					196 50	196 50	
General Contingencies. ....					986 56	986 56	
Printing. ....					730 08	730 08	
Stationery. ....					576 54	576 54	
Grand Totals. ....	23,191 23	1,578 18	1,552 34	1,231 60	4,664 28	38,217 63	52,567 25

W. J. GERALD,  
*Deputy Minister.*INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

2 GEORGE V., A. 1912

## APPENDIX

## RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICE.	ILLUMINATING POWER—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance		
	Highest.	Lowest.	Average.	No. of times be- low standard.	No. of tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Barrie—								
April .....			16·80	0	1			
May .....			16·60	0	1			
June .....			19·28	0	1			
July .....			20·54	0	1			
August .....			20·46	0	1			
September .....			19·88	0	1			
October .....			19·24	0	1			
November .....			19·94	0	1			
December .....			19·86	0	1			
January .....			20·43	0	1			
February .....			19·08	0	1			
March .....			18·14	0	1			
				0	12			
Belleville—								
April .....	17·85	16·72	17·28	0	2			
May .....	16·81	16·70	16·75	0	2			
June .....	18·84	17·00	17·92	0	2			
July .....	17·35	17·20	17·27	0	2			
August .....	17·25	18·01	16·50	0	2			
September .....	19·27	17·49	18·38	0	2			
October .....	18·44	17·74	18·09	0	2			
November .....	20·31	18·72	19·51	0	2			
December .....	18·65	18·59	18·62	0	2			
January .....	16·56	15·70	16·13	1	2			
February .....	18·01	17·06	17·53	0	2			
March .....	19·90	18·44	19·17	0	2			
				1	24			
Deseronto—								
April .....			19·06	0	1			
May .....			19·06	0	1			
June .....			20·07	0	1			
July .....			19·80	0	1			
August .....								
September .....			18·94	0	1			
October .....			17·86	0	1			
November .....			17·84	0	1			
December .....			19·50	6	1			
January .....			19·06	0	1			
February .....								
March .....			19·06	0	1			
				0	10			

## SESSIONAL PAPER No. 13

F.

Inspected during the Year ended March 31, 1911.

CUBIC FEET 35 Grains.		AMMONIA PER 100 CUBIC FEET. Allowance—4 Grains.					SULPHURETTED HYDROGEN.			REMARKS.
No. of times in excess of allow- ance.	No. of tests.	Highest.	Lowest.	Average.	Times in excess of allowance.	No. of tests.	N <sup>o</sup> . of times absent.	No. of times present.	No. of tests.	
		Grains.	Grains.	Grains.						
							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	
							12	0	12	
							2	0	2	
							2	0	2	
							2	0	2	
							2	0	2	
							2	0	2	
							2	0	2	
							2	0	2	
							2	0	2	
							2	0	2	
							2	0	2	
							2	0	2	
							24	0	24	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	No tests.
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	No tests.
							1	0	1	
							10	0	10	

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICE.	ILLUMINATING POWER.—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest	Average.	No. of times below standard.	No. of tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Berlin—								
April.....			16·51	0	1			
May.....			16·78	0	1			
June.....			17·62	0	1			
July.....			18·63	0	1			
August.....			17·29	0	1			
September.....			17·75	0	1			
October.....			19·19	0	1			
November.....			19·59	0	1			
December.....			17·79	0	1			
January.....			14·70	1	1			
February.....			17·70	0	1			
March.....			17·73	0	1			
				1	12			
Brockville—								
April.....	21·00	20·00	20·50	0	2			
May.....	21·00	20·00	20·50	0	2			
June.....			18·40	0	1			
July.....			17·20	0	1			
August.....			18·50	0	1			
September.....			16·50	0	1			
October.....			16·10	0	1			
November.....			18·20	0	1			
December.....			19·60	0	1			
January.....	19·60	19·20	19·40	0	3			
February.....	19·80	19·20	19·45	0	2			
March.....	19·80	19·20	19·60	0	4			
				0	20			
Cobourg,—								
April.....			17·39	0	1			
May.....			17·65	0	1			
June.....			18·08	0	1			
July.....			17·44	0	1			
August.....			19·38	0	1			
September.....			17·92	0	1			
October.....			18·64	0	1			
November.....			17·66	0	1			
December.....			18·94	0	1			
January.....			17·49	0	1			
February.....			18·94	0	1			
March.....			17·40	0	1			
				0	12			

## SESSIONAL PAPER No. 13

F--Continued.

Inspected during the Year ended March 31, 1911.

CUBIC FEET. 35 Grains.		AMMONIA PER 100 CUBIC FEET. Allowance—4 Grains.					SULPHURETTED HYDROGEN.			REMARKS.
No. of times in excess of allow- ance.	No. of tests.	Highest.	Lowest.	Average.	Times in excess of allowance.	No. of tests.	No. of times ab- sent.	No. of times pre- sent.	No. of tests.	
Grains.		Grains.		Grains.						
.....	.....	.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	.....	.....	1	0	0	
.....	.....	.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	.....	.....	0	1	1	
.....	.....	.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	.....	.....	11	1	11	
.....	.....	.....	.....	.....	.....	.....	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	
.....	.....	.....	.....	.....	.....	.....	3	0	3	
.....	.....	.....	.....	.....	.....	.....	2	0	2	
.....	.....	.....	.....	.....	.....	.....	4	0	4	
.....	.....	.....	.....	.....	.....	.....	20	0	20	
.....	.....	.....	.....	.....	.....	.....	2	0	2	
.....	.....	.....	.....	.....	.....	.....	2	0	2	
.....	.....	.....	.....	.....	.....	.....	12	0	12	
.....	.....	.....	.....	.....	.....	.....	2	0	2	
.....	.....	.....	.....	.....	.....	.....	2	0	2	
.....	.....	.....	.....	.....	.....	.....	2	0	2	
.....	.....	.....	.....	.....	.....	.....	2	0	2	
.....	.....	.....	.....	.....	.....	.....	2	0	2	
.....	.....	.....	.....	.....	.....	.....	2	0	2	
.....	.....	.....	.....	.....	.....	.....	2	0	2	
.....	.....	.....	.....	.....	.....	.....	12	0	12	
.....	.....	.....	.....	.....	.....	.....	12	0	12	
.....	.....	.....	.....	.....	.....	.....	12	0	12	
.....	.....	.....	.....	.....	.....	.....	12	0	12	
.....	.....	.....	.....	.....	.....	.....	12	0	12	
.....	.....	.....	.....	.....	.....	.....	2	0	2	
.....	.....	.....	.....	.....	.....	.....	2	0	2	
.....	.....	.....	.....	.....	.....	.....	24	0	24	

2 GEORGE V., A. 1912

## APPENDIX

## RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICE.	ILLUMINATING POWER—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times be- low standard.	No of tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Port Hope—								
April .....			18·07	0	1			
May .....			17·59	0	1			
June .....			18·33	0	1			
July .....			18·41	0	1			
August .....			18·86	0	1			
September .....			19·28	0	1			
October .....			18·80	0	1			
November .....			18·62	0	1			
December .....			19·09	0	1			
January .....			18·04	0	1			
February .....			18·59	0	1			
March .....			19·08	0	0			
				0	12			
Cornwall—								
April .....								
May .....								
June .....								
July .....								
August .....								
September .....								
October .....								
November .....								
December .....								
January .....								
February .....								
March .....								
Guelph—								
April .....			19·17	0	1			
May .....			18·01	0	1			
June .....			18·59	0	1			
July .....			17·73	0	1			
August .....			17·90	0	1			
September .....			18·78	0	1			
October .....			17·29	0	1			
November .....			17·86	0	1			
December .....			18·11	0	1			
January .....			17·61	0	1			
February .....			18·29	0	1			
March .....			18·55	0	1			
				0	12			





2 GEORGE V., A. 1912

## APPENDIX

## RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICES.	ILLUMINATING POWER.—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance		
	Highest.	Lowest.	Average.	No. of times below Standard.	No. of Tests.	Highest.	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Hamilton—								
April.....	18.12	17.95	18.03	0	12			
May.....	18.39	18.05	18.22	0	12			
June.....	18.06	18.03	18.04	0	12			
July.....	17.88	17.76	17.82	0	12			
August.....	17.97	17.71	17.84	0	12			
September.....	17.88	17.71	17.78	0	3			
October.....	18.05	17.75	17.90	0	12			
November.....	17.94	17.88	17.91	0	12			
December.....	18.02	17.72	17.87	0	12			
January.....	17.80	17.63	17.71	0	12			
February.....	17.75	17.71	17.73	0	12			
March.....	18.02	17.71	17.86	0	3			
				0	26			
Brantford Natural Gas Co.—								
April.....								
May.....								
June.....								
July.....								
August.....								
September.....								
October.....								
November.....								
December.....								
January.....								
February.....								
March.....								
Dominion Nat. Gas Co., Dun- das and Dunnville—								
April.....								
May.....								
June.....								
July.....								
August.....								
September.....								
October.....								
November.....								
December.....								
January.....								
February.....								
March.....								

F—Continued.

Inspected during the year ended March 31, 1911.

[illegible]

2 GEORGE V., A. 1912

## APPENDIX

## RETURN of Illuminating Power and Purity of Gas

INSPECTION OFFICE.	ILLUMINATING POWER—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times be- low standard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Provincial Nat. Gas Co.—								
April .....								
May .....								
June.....								
July .....								
August.....								
September.....								
October.....								
November.....								
December.....								
January.....								
February.....								
March.....								
St. Catharines Gas Co.—								
April.....			17.16	0	1			
May .....			17.34	0	1			
June.....			16.64	0	1			
July .....			16.78	0	1			
August.....			16.92	0	1			
September.....			16.79	0	1			
October.....			16.38	0	1			
November.....			17.47	0	1			
December.....			16.62	0	1			
January.....			16.96	0	1			
February.....			16.97	0	1			
March.....			17.16	0	1			
				0	12			
Dominion Nat. Gas Co., Galt—								
April.....								
May .....								
June.....								
July .....								
August.....								
September.....								
October.....								
November.....								
December.....								
January.....								
February.....								
March.....								

F—Continued.

Inspected during the Year ended March 31, 1911.

[illegible]

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICE.	ILLUMINATING POWER.—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times be- low standard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
United Nat. Gas Co., St. Catharines—								
April.....								
May.....								
June.....								
July.....								
August.....								
September.....								
October.....								
November.....								
December.....								
January.....								
February.....								
March.....								
Ontario Pipe Line, Hamilton—								
April.....								
May.....								
June.....								
July.....								
August.....								
September.....								
October.....								
November.....								
December.....								
January.....								
February.....								
March.....								
Sterling Natural Gas Co., Port Colborne—								
April.....								
May.....								
June.....								
July.....								
August.....								
September.....								
October.....								
November.....								
December.....								
January.....								
February.....								
March.....								





APPENDIX

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICE.	ILLUMINATING POWER.—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times be- low standard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Norfolk Natural Gas Co., Port Dover—								
April.....								
May.....								
June.....								
July.....								
August.....								
September.....								
October.....								
November.....								
December.....								
January.....								
February.....								
March.....								
Kingston—								
April.....			20·00	0	1			
May.....			20·00	0	1			
June.....								
July.....			20·50	0	1			
August.....			20·50	0	1			
September.....			18·40	0	1			
October.....			19·50	0	1			
November.....			17·80	0	1			
December.....			18·80	0	1			
January.....	19·60	19·20	19·40	0	2			
February.....			19·50	0	1			
March.....	19·60	19·10	19·40	0	3			
				0	14			
Listowel—								
April.....			18·68	0	1			
May.....			17·72	0	1			
June.....			17·62	0	1			
July.....			18·44	0	1			
August.....			19·92	0	1			
September.....			17·96	0	1			
October.....			18·62	0	1			
November.....			19·68	0	1			
December.....			18·26	0	1			
January.....			17·78	0	1			
February.....			18·46	0	1			
March.....			20·20	0	1			
				0	12			



2 GEORGE V., A. 1912

## APPENDIX

## RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICE.	ILLUMINATING POWER.—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times be- low standard.	No. of tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
London City Gas Co.—								
April .....	18.40	17.23	17.75	0	14	.....	.....	.....
May .....	18.66	17.00	18.06	0	8	.....	.....	.....
June .....	19.70	16.40	18.00	0	8	.....	.....	.....
July .....	20.28	16.50	17.97	0	10	.....	.....	.....
August .....	19.23	16.50	17.47	0	13	.....	.....	.....
September .....	18.37	16.67	17.72	0	8	.....	.....	.....
October .....	18.58	16.66	17.70	0	10	.....	.....	.....
November .....	19.07	17.36	18.19	0	8	.....	.....	.....
December .....	18.64	16.89	17.68	0	10	.....	.....	.....
January .....	20.94	18.15	18.74	0	8	.....	.....	.....
February .....	18.97	17.15	18.10	0	8	.....	.....	.....
March .....	19.09	16.56	17.78	0	8	.....	.....	.....
				0	109			
Chatham Gas Co.—								
April .....	.....	.....	.....	.....	.....	.....	.....	.....
May .....	.....	.....	.....	.....	.....	.....	.....	.....
June .....	.....	.....	.....	.....	.....	.....	.....	.....
July .....	.....	.....	.....	.....	.....	.....	.....	.....
August .....	.....	.....	.....	.....	.....	.....	.....	.....
September .....	.....	.....	.....	.....	.....	.....	.....	.....
October .....	.....	.....	.....	.....	.....	.....	.....	.....
November .....	.....	.....	.....	.....	.....	.....	.....	.....
December .....	.....	.....	.....	.....	.....	.....	.....	.....
January .....	.....	.....	.....	.....	.....	.....	.....	.....
February .....	.....	.....	.....	.....	.....	.....	.....	.....
March .....	.....	.....	.....	.....	.....	.....	.....	.....
Ingersoll Gas Co.—								
April .....	.....	.....	13.82	1	1	.....	.....	.....
May .....	.....	.....	18.23	0	1	.....	.....	.....
June .....	.....	.....	15.78	0	1	.....	.....	.....
July .....	.....	.....	17.71	0	1	.....	.....	.....
August .....	.....	.....	15.42	1	1	.....	.....	.....
September .....	.....	.....	17.53	0	1	.....	.....	.....
October .....	.....	.....	16.77	0	1	.....	.....	.....
November .....	.....	.....	18.07	0	1	.....	.....	.....
December .....	.....	.....	11.03	1	1	.....	.....	.....
January .....	.....	.....	12.97	1	1	.....	.....	.....
February .....	.....	.....	12.16	1	1	.....	.....	.....
March .....	.....	.....	13.02	1	1	.....	.....	.....
				6	12			

## SESSIONAL PAPER No. 13

F--Continued.

Inspected during the Year ended March 31, 1911.

CUBIC FEET. 35 Grains.		AMMONIA PER 100 CUBIC FEET. Allowance—4 Grains.					SULPHURETTED HYDROGEN.			REMARKS.
No. of times in excess of allow- ance.	No. of tests.	Highest.	Lowest.	Average.	Times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
		Grains.	Grains.	Grains.			No. of times absent.	No. of times present.		
							10	0	10	
							8	0	8	
							8	0	8	
							10	0	10	
							8	0	8	
							8	0	8	
							10	0	10	
							8	0	8	
							10	0	10	
							8	0	8	
							8	0	8	
							8	0	6	
							104	0	104	
							0	2	2	
							0	1	1	
							0	1	1	
							0	2	2	
							1	1	2	
							0	3	3	
							1	0	1	
							0	1	1	
							0	1	1	
							1	1	2	
							0	2	2	
							1	0	1	
							4	15	19	
							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	

2 GEORGE V., A. 1912

## APPENDIX

## RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICE.	ILLUMINATING POWER—STANDARD. 15 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times be- low standard.	No. of tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
City of St. Thomas—								
April . . . . .	17·85	16·67	17·26	0	2			
May . . . . .	17·02	16·62	16·82	0	2			
June . . . . .	16·75	16·20	16·47	0	2			
July . . . . .	18·36	17·95	18·15	0	2			
August . . . . .	18·76	17·52	18·14	0	2			
September . . . . .	19·92	18·87	19·39	0	2			
October . . . . .	18·30	16·79	17·04	0	2			
November . . . . .	17·77	17·22	17·50	0	2			
December . . . . .	18·50	17·29	17·89	0	2			
January . . . . .	17·47	17·43	17·40	0	2			
February . . . . .	17·64	16·08	16·86	0	2			
March . . . . .	17·43	17·20	17·31	0	2			
				0	24			
Windsor—								
April . . . . .								
May . . . . .								
June . . . . .								
July . . . . .								
August . . . . .								
September . . . . .								
October . . . . .								
November . . . . .								
December . . . . .								
January . . . . .								
February . . . . .								
March . . . . .								
Napanee—								
April . . . . .			19·90	0	1			
May . . . . .			19·27	0	1			
June . . . . .			20·06	0	1			
July . . . . .			19·73	0	1			
August . . . . .			18·50	9	1			
September . . . . .			20·80	0	1			
October . . . . .			20·39	0	1			
November . . . . .			19·16	0	1			
December . . . . .			19·30	0	1			
January . . . . .								
February . . . . .			20·57	0	1			
March . . . . .			19·86	0	1			
				0	11			





2 GEORGE V., A. 1912

## APPENDIX

## RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICE.	ILLUMINATING POWER—STANDARD. 16 Caudles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times be- low standard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Ottawa—								
April .....	16·94	16·63	16·77	0	8	14·75	14·38	14·56
May.....	16·76	16·24	16·56	0	8	14·93	14·54	14·73
June.....	16·94	16·06	16·66	0	10	14·70	14·30	14·50
July.....	16·95	16·23	16·66	0	8	14·47	14·36	14·41
August.....	16·51	16·37	16·66	0	8	14·81	14·71	14·76
September.....	16·72	16·24	16·55	0	10	14·64	14·19	14·41
October.....	16·95	16·06	16·53	0	8	14·54	14·41	14·47
November.....	16·94	16·61	16·76	0	8	14·05	14·11	14·53
December ..	16·66	16·28	16·42	0	10	14·70	14·38	14·54
January.....	16·81	16·24	16·58	0	8	14·64	14·36	14·50
February.....	16·79	16·06	16·47	0	8	14·59	14·19	14·39
March.....	16·95	16·54	16·75	0	10	14·97	14·47	14·72
				0	104			
Owen Sound—								
April .....			16·20	0	1			
May.....			16·66	0	1			
June.....			16·10	0	1			
July.....			16·00	0	1			
August.....			16·52	0	1			
September.....			16·53	0	1			
October.....			16·00	0	1			
November.....			16·66	0	1			
December.....			16·20	0	1			
January.....			16·10	0	1			
February.....			16·40	0	1			
March.....			16·50	0	1			
				0	12			
Peterborough—								
April .....	17·80	17·20	17·50	0	2			
May.....	17·60	17·20	17·40	0	2			
June.....	19·70	19·40	19·55	0	2			
July.....	20·00	18·40	19·20	0	2			
August.....	19·00	18·60	18·80	0	2			
September.....	19·40	18·80	19·10	0	2			
October.....	19·20	18·50	18·85	0	2			
November.....	17·60	16·40	17·00	0	2			
December.....	16·80	17·20	17·00	0	2			
January.....	17·40	17·00	17·20	0	2			
February.....	17·00	16·80	16·90	0	2			
March.....	18·40	17·60	18·00	0	2			
				0	24			

F—Continued.

Inspected during the Year ended March 31, 1911.

[illegible]

2 GEORGE V., A. 1912

## APPENDIX

## RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICE.	ILLUMINATING POWER—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times be- low Standard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Sarnia—								
April.....								
May.....								
June.....								
July.....								
August.....								
September.....								
October.....								
November.....								
December.....								
January.....								
February.....								
March.....								
Stratford—								
April.....			16.49	0	1			
May.....			16.49	0	1			
June.....			17.07	0	1			
July.....			16.82	0	1			
August.....			17.50	0	1			
September.....			16.39	0	1			
October.....			16.03	0	1			
November.....			16.33	0	1			
December.....			17.68	0	1			
January.....			17.94	0	1			
February.....			17.82	0	1			
March.....			17.05	0	1			
				0	12			
Toronto—								
April.....	18.69	16.59	17.99	0	9	14.04	11.28	12.66
May.....	19.00	18.10	18.44	0	8	11.47	8.70	10.08
June.....	18.67	18.05	18.41	0	9	11.19	9.78	10.48
July.....	19.79	14.94	17.92	0	9	11.48	11.39	11.43
August.....	18.23	14.90	16.28	0	9			
September.....	16.83	16.39	16.66	0	8			
October.....	17.32	16.28	16.70	0	10			
November.....	16.66	15.98	16.43	1	8			
December.....	16.87	16.04	16.46	0	8			
January.....	17.48	16.42	16.71	0	10			
February.....	17.97	16.42	16.69	0	8			
March.....	20.10	16.35	18.72	0	8			
				1	104			



2 GEORGE V., A. 1912

## APPENDIX

## RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICE.	ILLUMINATING POWER—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times be- low standard.	No. of test.	Highest	Lowest	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Woodstock—								
April.....			16·86	0	1			
May.....			16·83	0	1			
June.....			17·03	0	1			
July.....			16·96	0	1			
August.....			16·86	0	1			
September.....			17·05	0	1			
October.....			16·56	0	1			
November.....			16·55	0	1			
December.....			16·63	0	1			
January.....			16·68	0	1			
February.....			16·98	0	1			
March.....			16·40	0	1			
				0	12			
Montreal—								
April.....	16·34	16·09	16·00	0	9	2·83	2·75	2·79
May.....	17·83	16·06	16·85	0	9	2·07	1·66	1·86
June.....	18·21	16·12	17·28	0	8	2·37	1·92	2·14
July.....	18·04	16·42	17·46	0	9	3·28	2·13	2·70
August.....	17·77	16·66	17·14	0	9	3·37	1·76	2·56
September.....	17·58	16·24	16·81	0	9	2·74	2·02	2·38
October.....	17·00	16·30	16·71	0	8	3·16	2·39	2·77
November.....	17·10	16·26	16·74	0	9	2·77	1·40	2·09
December.....	16·96	16·18	16·49	0	9	2·12	1·99	2·05
January.....	16·74	16·00	16·34	0	9	2·27	1·68	2·02
February.....	16·82	16·01	16·27	0	8	3·64	2·24	2·94
March.....	16·75	16·04	16·32	6	9	4·37	3·53	3·97
				0	105			
Quebec—								
April.....	17·21	16·90	17·05	0	2	18·35	14·29	16·32
May.....	17·96	16·92	17·44	0	2	18·49	17·40	17·94
June.....	16·62	16·59	16·60	0	2	16·70	16·64	16·67
July.....	17·37	17·10	17·23	0	2	20·00	14·78	17·39
August.....	16·97	16·40	16·68	0	2	17·02	14·64	15·83
September.....	18·25	17·20	17·72	0	2	19·15	15·48	17·31
October.....	18·30	17·70	18·00	0	2	21·00	20·85	20·92
November.....	18·29	17·77	18·03	0	2	23·21	13·73	18·47
December.....	17·41	17·21	17·31	0	2	19·88	17·81	18·86
January.....	17·69	16·97	17·33	0	2	18·60	15·02	16·81
February.....	17·56	16·73	17·14	0	2	18·24	17·36	17·80
March.....	17·65	17·28	17·46	0	2	19·09	17·86	18·47
				0	24			





2 GEORGE V., A. 1912

## APPENDIX

## RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICE.	ILLUMINATING POWER—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times below standard.	No. of tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Sherbrooke—								
April.....			22.34	0	1			
May.....			27.74	0	1			
June.....			22.77	0	1			
July.....			21.18	0	1			
August.....			22.99	0	1			
September.....			22.85	0	1			
October.....			22.98	0	1			
November.....			22.36	0	1			
December.....			27.49	0	1			
January.....			24.55	0	1			
February.....			23.80	0	1			
March.....			26.72	0	1			
				0	12			
St. Hyacinthe—								
April.....			18.64	0	1			
May.....			18.38	0	1			
June.....			18.34	0	1			
July.....			18.26	0	1			
August.....			18.26	0	1			
September.....			18.26	0	1			
October.....			18.38	0	1			
November.....			18.54	0	1			
December.....			18.68	0	1			
January.....			18.22	0	1			
February.....			18.54	0	1			
March.....			18.06	0	1			
				0	12			
Fredericton—								
April.....			16.91	0	1			
May.....			16.76	0	1			
June.....			16.94	0	1			
July.....			17.31	0	1			
August.....								
September.....								
October.....								
November.....								
December.....								
January.....								
February.....								
March.....								
				0	4			



2 GEORGE V., A. 1912

## APPENDIX

## RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICE.	ILLUMINATING POWER—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of time be- low standard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
St. John—								
April.....			16·67	0	1			22·40
May.....			16·90	0	1			21·14
June.....			18·02	0	1			22·40
July.....	17·56	17·14	17·35	0	2			19·53
August.....	17·37	17·23	17·30	0	2			21·22
September.....	17·67	17·40	17·53	0	2			22·49
October.....			17·22	0	1			23·91
November.....			16·84	0	1			23·72
December.....			17·60	0	1			24·16
January.....			17·18	0	1			21·84
February.....			17·51	0	1			19·53
March.....			18·06	0	1			22·33
				0	15			
Moncton—								
April.....			19·42	0	1			
May.....			18·74	0	1			
June.....			19·71	0	1			
July.....			19·64	0	1			
August.....			18·89	0	1			
September.....			18·65	0	1			
October.....			19·88	0	1			
November.....			18·18	0	1			
December.....			19·29	0	1			
January.....			18·94	0	1			
February.....			19·25	0	1			
March.....			18·99	0	1			
				0	12			
Halifax—								
April.....			17·56	0	1			
May.....			17·20	0	1			
June.....			17·35	0	1			
July.....			16·68	0	1			
August.....			16·14	0	1			
September.....			16·56	0	1			
October.....			16·53	0	1			
November.....			16·30	0	1			
December.....			16·15	0	1			
January.....			16·43	0	1			
February.....			16·34	0	1			
March.....			16·30	0	1			
				0	12			

## SESSIONAL PAPER No. 18

F—Continued.

Inspected during the Year ended March 31, 1911.

CUBIC FEET 35 Grains.		AMMONIA PER 100 CUBIC FEET Allowance—4 Grains.					SULPHURETTED HYDROGEN.			REMARKS.
No. of times in excess of allow- ance.	No. of Tests.	Highest.	Lowest.	Average.	Times in excess of allowance.	No. of tests.	No. of times ab- sent.	No. of times pre- sent.	No. of Tests.	
		Grains.	Grains.	Grains.						
0	1	.....	.....	0·00	0	1	1	0	1	
0	1	.....	.....	0·00	0	1	1	0	1	
0	1	.....	.....	0·00	0	1	1	0	1	
0	1	.....	.....	0·00	0	1	2	0	2	
0	1	.....	.....	0·00	0	1	2	0	2	
0	1	.....	.....	0·00	0	1	2	0	2	
0	1	.....	.....	0·00	0	1	1	0	1	
0	1	.....	.....	0·00	0	1	1	0	1	
0	1	.....	.....	0·00	0	1	1	0	1	
0	1	.....	.....	0·00	0	1	1	0	1	
0	1	.....	.....	0·00	0	1	1	0	1	
0	1	.....	.....	0·00	0	1	1	0	1	
0	1	.....	.....	0·00	0	1	1	0	1	
0	1	.....	.....	0·00	0	1	1	0	1	
0	1	.....	.....	0·00	0	1	1	0	1	
0	12				0	12	15	0	15	
.....	.....	.....	.....	.....	.....	.....	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	6	1	
.....	.....	.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	.....	.....	1	0	1	
.....	.....	.....	.....	.....	.....	.....	12	0	12	
.....	.....	.....	.....	23·06	0	1	1	0	1	
.....	.....	.....	.....	21·61	0	1	1	0	1	
.....	.....	.....	.....	25·77	0	1	1	0	1	
.....	.....	.....	.....	30·00	0	1	1	0	1	
.....	.....	.....	.....	20·00	0	1	1	0	1	
.....	.....	.....	.....	22·47	0	1	1	0	1	
.....	.....	.....	.....	23·54	0	1	1	0	1	
.....	.....	.....	.....	18·93	0	1	1	0	1	
.....	.....	.....	.....	18·00	0	1	1	0	1	
.....	.....	.....	.....	18·75	0	1	1	0	1	
.....	.....	.....	.....	18·12	0	1	1	0	1	
.....	.....	.....	.....	22·88	0	1	1	0	1	
.....	.....	.....	.....	.....	0	12	12	0	12	

2 GEORGE V., A. 1912

## APPENDIX

## RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICE.	ILLUMINATING POWER—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times be- low standard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Yarmouth.—								
April .....			16·22	0	1			
May .....			16·39	0	1			
June .....			16·25	0	1			
July .....			16·07	0	1			
August .....			16·26	0	1			
September .....			16·32	0	1			
October .....			16·21	0	1			
November .....			16·10	0	1			
December .....			16·18	0	1			
January .....			16·17	0	1			
February .....			16·00	0	1			
March .....				0	11			
Charlottetown.—								
April .....			19·32	0	1			
May .....			18·90	0	1			
June .....			19·41	0	1			
July .....			18·46	0	1			
August .....			22·38	0	1			
September .....			20·16	0	1			
October .....			19·93	0	1			
November .....			16·19	0	1			
December .....			20·85	0	1			
January .....								
February .....								
March .....	16·88	15·81	16·48	1	3			
				1	12			
Winnipeg.—								
April .....	3·00	3·00	3·00	10	10			
May .....	3·00	3·00	3·60	8	8			
June .....	9·70	2·95	5·80	10	10			
July .....	16·70	6·10	12·70	5	8			
August .....	21·50	14·13	16·06	5	8			
September .....	16·80	12·70	14·38	8	10			
October .....	16·27	12·15	14·27	7	8			
November .....	15·40	14·28	12·80	8	8			
December .....	22·38	15·29	12·15	8	10			
January .....	14·60	10·25	12·96	8	8			
February .....	16·00	10·56	12·79	7	8			
March .....	19·00	12·29	14·52	7	8			
				91	104			



## SESSIONAL PAPER No. 18

F—Continued.

Inspected during the Year ended March 31, 1911.

CUBIC FEET. 35 Grains.		AMMONIA PER 100 CUBIC FEET. Allowance—4 Grains.					SULPHURETTED HYDROGEN.			REMARKS.
No. of times in excess of allow- ance	No. of Tests.	Highest.	Lowest.	Average.	Times in excess of allowance.	No. of Tests.	No. of times ab- sent.	No. of times pre- sent.	No. of Tests.	
		Grains.	Grains.	Grains.						
										No tests made.
							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	
							11	0	11	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							0	1	1	
										No tests made. " "
							0	3	3	
							8	4	12	
							10	0	10	
							8	0	8	
							10	0	10	
							8	0	8	
							8	0	8	
							10	0	10	
							8	0	8	
							8	0	8	
							10	0	10	
							8	0	8	
							8	0	8	
							8	0	8	
							104	0	104	

## APPENDIX

## RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICE.	ILLUMINATING POWER--STANDARD 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times be- low Standard.	No. of tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Nanaimo—								
April .....			16·91	0	1			
May .....			17·04	0	1			
June .....			16·30	0	1			
July .....			17·14	0	1			
August .....			16·91	0	1			
September .....			17·15	0	1			
October .....			17·30	0	1			
November .....			18·34	0	1			
December .....			16·20	0	1			
January .....			18·16	0	1			
February .....			17·82	0	1			
March .....			17·79	0	1			
				0	12			
New Westminster—								
April .....			18·84	0	1			
May .....			18·76	0	1			
June .....			18·93	0	1			
July .....			18·74	0	1			
August .....			18·83	0	1			
September .....			18·65	0	1			
October .....			18·81	0	1			
November .....			18·92	0	1			
December .....			18·74	0	1			
January .....			18·66	0	1			
February .....			18·88	0	1			
March .....			18·77	0	1			
				0	12			
Vancouver—								
April .....	13·60	12·37	11·40	4	4			
May .....								
June .....								
July .....								
August .....								
September .....	15·34	10·70	13·31	10	10			
October .....	14·30	9·16	11·99	8	8			
November .....	16·80	11·70	13·06	7	8			
December .....	16·96	13·00	14·09	9	10			
January .....	16·26	10·10	12·41	7	8			
February .....	20·50	11·10	15·04	6	8			
March .....	15·78	13·34	14·52	10	10			
				61	66			



2 GEORGE V., A. 1912

## APPENDIX

## RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICE.	ILLUMINATING POWER—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times be- low standard.	No. of tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Victoria—								
April.....			16.50	0	1			
May.....			16.91	0	1			
June.....			16.37	0	1			
July.....			17.06	0	1			
August.....			17.13	0	1			
September.....								
October.....			16.38	0	1			
November.....			16.60	0	1			
December.....			16.43	0	1			
January.....			16.62	0	1			
February.....								
March.....	13.90	11.23	12.26	4	4			
				4	13			

## SESSIONAL PAPER No. 18

F—*Concluded.*

Inspected during the Year ended March 31, 1911.

CUBIC FEET. 35 Grains.		AMMONIA PER 100 CUBIC FEET. Allowance—4 Grains.					SULPHURETTED HYDROGEN.			REMARKS.
No. of times in excess of allow- ance.	No. of tests.	Highest.	Lowest.	Average.	Times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
		Grains.	Grains.	Grains.						
							1	0	1	No tests made. On leave of ab- sence.
							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	
							4	0	4	
							13	0	13	

## APPENDIX G.

STATEMENT of Gas Meters for Verification, Verified after first Rejection and Rejected for the Fiscal Year ended March 31, 1911.

Districts	Presented for Verification.	Kind.		Verified as coming within the error tolerated by law.			Verified after first Rejection.			Rejected.			Totals Verified and Rejected.	
		Wet.	Dry.	Correct.	Fast.	Slow.	Correct.	Fast.	Slow.	Unsound.	Fast.	Slow.	Verified.	Rejected.
Barrie .....	113		113	8	32	70			1	1	1		111	2
Belleville.....	125		125	30	27	67						1	124	1
Berlin.....	462		462	31	40	371				4	7	9	442	26
Brockville.....	222		222	87	66	69							222	
Cobourg.....	108		108	9	36	63							108	
Cornwall.....														
Guelph.....	367		367		55	282		3	11	1	14	1	351	16
Hamilton.....	5,356		5,356	817	772	3,754					11	2	5,343	13
Kingston.....	460		460	173	100	186						1	459	1
Li-towel.....	2		2	2									2	
London.....	4,895		4,895	1,380	1,235	2,263					11	6	4,878	17
Napanee.....	27		27	9	5	13							27	
Ottawa.....	1,068		1,068	236	241	596					1		1,067	1
Owen Sound.....	102		102	88	2	12							102	
Peterborough.....	195		195	41	11	140						3	192	3
Sarnia.....	940	30	910	806	10	124							940	
Stratford.....	93		93	19	25	47	1	1					93	
Toronto.....	19,809		19,809	4,562	3,028	11,979				1	194	45	19,569	240
Woodstock.....	343		343	52	108	183							343	
Montreal.....	13,441		13,441	1,733	3,625	7,993				39	14	37	13,351	90
Quebec.....	285		285	69	11	204					1		284	1
Sherbrooke.....	108		108	52	19	36						1	107	1
St. Hyacinthe.....	23		23	13	4	6							23	
Fredericton.....														
St. John.....	353		353	193	4	152					2	2	349	4
Halifax.....	208		208	170	11	27							208	
Charlottetown.....	48		48	1	12	23				12			36	12
Winnipeg.....	2,561		2,561	1,191	479	891							2,561	
Nanaimo.....	75		75	75									75	
New Westminster.....	118		118	38	26	54							118	
Vancouver.....	2,983		2,983	514	301	2,167					1		2,982	1
Victoria.....	500		500	119	111	270							500	
Total.....	55,390	30	55,360	12,518	10,396	32,036	1	4	12	58	257	108	54,967	423

W. J. GERALD,  
Deputy Minister.

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.



SESSIONAL PAPER No. 18

## APPENDIX H.

STATEMENT of Electric Light Inspection Expenditures and Revenues for the Fiscal Year ended March 31, 1911.

Districts	Inspectors	EXPENDITURES						Revenues.
		Salaries.	Special Assistance	Rent.	Travelling Expenses.	Sundries.	Total.	
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Belleville.....	Fraser, Harold..	416 65	.....	.....	507 21	218 42	1,142 28	.....
Hamilton.....	McPhie, D.....	.....	.....	.....	139 30	16 31	155 61	.....
London.....	Nash, A. F.....	.....	.....	.....	190 15	12 35	202 50	.....
Ottawa.....	Roche, H. G.....	.....	.....	.....	332 35	.....	332 35	.....
Toronto.....	Johnston, J. K..	.....	1,349 44	...	1,286 85	247 52	2,883 81	.....
	<i>Ontario.....</i>	416 65	1,349 44	.....	2,455 86	494 60	4,716 55	.....
Montreal.....	Aubin, A.....	.....	799 92	.....	47 25	19 93	857 10	.....
Quebec.....	Le Vasseur, N.....	.....	.....	.....	45 25	86 60	131 85	.....
Sherbrooke.....	Simpson, A. F.....	.....	.....	.....	161 20	19 75	180 95	.....
St. Hyacinthe..	Provost, I. E.....	300 00	.....	.....	149 30	3 20	452 50	.....
Trois Rivières.	Robitaille, G.W.	500 00	.....	120 00	33 30	12 20	670 50	.....
	<i>Quebec.....</i>	800 00	799 92	120 00	441 30	131 68	2,292 90	.....
St. John, N. B.	Wilson, J. E....	.....	.....	.....	281 85	29 71	311 56	.....
Halifax, N.S..	Toale, J.....	.....	.....	.....	332 45	71 95	404 40	.....
Charlottetown, P.E.I. ....	Bell, J. H.....	.....	.....	.....	50 85	78 75	129 60	.....
Winnipeg, Man	Hamilton, R ..	.....	916 63	.....	304 45	58 50	1,279 58	.....
Regina, Sask..	Reesor, M. W....	600 00	500 00	.....	232 75	56 90	1,389 65	.....
Edmonton, Alta	Roe, E. A.....	1,400 02	.....	315 00	658 25	63 51	2,436 78	.....
Vancouver.....	Stott J.....	3,629 46	.....	.....	.....	.....	.....	.....
	Templeton, W.A		.....	.....	309 35	203 50	4,142 31	.....
	Power, O. S.....	.....	.....	.....	.....	.....	.....	.....
Victoria.....	Jones R.....	.....	.....	.....	54 25	28 95	83 20	.....
Yukon .....	Macdonald, J.F.	500 00	.....	.....	.....	.....	500 00	.....
Chief Electrical Engineer....	.....	.....	.....	.....	285 32	590 13	875 45	.....
Dominion Ins- pector.....	.....	1,916 60	166 94	.....	141 35	481 20	2,706 09	.....
General Contin- gencies.....	.....	.....	.....	.....	.....	3,653 89	3,653 89	.....
Printing.....	.....	.....	.....	.....	.....	50 92	50 92	.....
Stationery.....	.....	.....	.....	.....	.....	194 52	194 52	.....
	Grand Totals.	9,262 73	3,732 93	435 00	5,548 03	6,188 71	25,167 40	.....

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.W. J. GERALD,  
Deputy Minister.

2 GEORGE V., A. 1912

## APPENDIX I.

STATEMENT showing the Number of Electric Meters Verified, Rejected and Verified after first rejection for the Fiscal Year ended March 31, 1911.

Districts.	Presented for Verification.	Verified as coming within the error tolerated by law.			Rejected.			Verified after first Rejection.			Total.	
		Correct.	Fast.	Slow.	Unsound.	Fast.	Slow.	Correct.	Fast.	Slow.	Verified.	Rejected.
Belleville .....	1,703	822	459	420	.....	1	.....	1	.....	.....	1,702	1
Hamilton .....	3,391	1,170	588	1,633	.....	.....	.....	.....	.....	.....	3,391	.....
London .....	3,315	1,468	887	951	.....	6	3	.....	.....	.....	3,315	.....
Ottawa .....	4,858	603	3,161	1,091	3	.....	.....	.....	.....	.....	4,858	.....
Toronto .....	10,396	5,819	2,961	1,601	.....	10	5	.....	.....	.....	10,381	15
Montreal .....	8,646	4,973	2,347	1,319	4	3	.....	.....	.....	.....	8,639	7
Quebec .....	766	527	188	51	.....	.....	.....	.....	.....	.....	766	.....
Sherbrooke .....	613	218	308	77	.....	1	9	.....	.....	.....	603	10
St. Hyacinthe .....	423	140	203	80	.....	.....	.....	.....	.....	.....	423	.....
Three Rivers .....	13	72	34	28	.....	.....	.....	.....	.....	.....	134	.....
St. John .....	1,944	1,024	418	501	.....	1	4	.....	1	.....	1,944	5
Halifax .....	2,351	2,126	114	66	26	13	9	1	.....	1	2,308	48
Charlottetown .....	390	128	112	156	.....	.....	.....	.....	.....	.....	396	.....
Winnipeg .....	6,145	2,168	2,382	1,595	.....	.....	.....	.....	.....	.....	6,145	.....
Regina .....	2,982	1,142	1,222	604	.....	5	2	1	6	.....	2,975	7
Edmonton .....	4,217	1,028	2,365	824	.....	.....	.....	.....	.....	.....	4,217	.....
Vancouver .....	10,413	2,158	5,253	3,000	.....	.....	1	.....	1	.....	10,412	1
Victoria .....	2,413	590	1,492	331	.....	.....	.....	.....	.....	.....	2,413	.....
Totals .....	65,116	26,176	24,494	14,328	33	40	33	2	9	1	65,022	94

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

W. J. GERALD,  
*Deputy Minister.*

SESSIONAL PAPER No. 18

APPENDIX J.

STATEMENT showing the Electric Light Companies registered under the Electric Light Inspection Act during the year ended March 31, 1911.

Districts.	Name of Company.	Serial Number.	By whom Certificate Issued.	Certificate for Fiscal Year.	NUMBER OF LAMPS.		Totals.
					Arc.	Incandescent.	
Belleville.....	W. P. Niles.....	1	C. I. R., Belleville.....	1910-11.....	18	1,200	1,380
	The Corporation of Picton.....	2	"	"	41	7,000	7,410
	The Tweed Electric Light and Power Co.....	3	"	"	2	1,500	1,520
	The Tranton Electric and Water Co., Ltd.....	4	"	"	83	21,741	22,571
	The Marjura Electric Co., Ltd.....	5	"	"	.....	680	680
	Fair & Sargent, Bancroft.....	6	"	"	.....	600	600
	The Corporation of Madoc.....	7	"	"	12	1,320	1,320
	The Frankford Electric Light Co., Ltd.....	8	"	"	.....	400	400
	The Benjamin Manufacturing Co., of Yarker, Ltd.....	9	"	"	.....	300	300
	A. A. Connolly, Yarker.....	10	C. I. R., Kingston.....	1910-11.....	.....	125	125
	The Corporation of Napanee, Heat, Light and Power Co.....	11	"	"	40	2,600	3,000
	School of Mining of Kingston.....	12	"	"	3	125	125
	Corporation of the City of Kingston.....	13	"	"	135	9,400	10,950
	The Colborne Electric Light Co.....	14	"	"	.....	1,100	1,100
	Davidson & Harrington, Millbrook.....	15	C. I. R., Peterboro.....	1910-11.....	5	400	450
	The Light, Heat and Power Co., Lindsay.....	16	"	"	95	12,000	12,950
	The Peterboro Light and Power Co.....	17	"	"	250	35,000	37,500
	The Port Hope Electric Light and Power Co.....	18	"	"	32	2,638	2,938
	Bowmanville Electric Light Co.....	19	"	"	20	4,000	4,200
	Bobcaygeon Electric Light Commission.....	20	"	"	22	1,000	1,220
	Fowld Co., Hastings.....	21	"	"	13	730	730
	Stephenson Bros., Omemee.....	22	"	"	.....	450	450
	Brighton Electric Plant.....	23	"	"	.....	625	625
	Otonabee Power Co., Peterboro.....	24	"	"	20	12,000	12,200
	Corporation of Campbellford.....	25	"	"	50	3,000	3,500
	The Havelock Electric Light and Power Co.....	26	"	"	14	1,500	1,640
	Cobourg Water and Electric Co.....	27	"	"	30	2,500	2,800
	The Lakesfield Electric Co.....	28	"	"	12	1,800	1,920
	W. C. Harrison, Norwood.....	29	"	"	13	712	872
	The Board of Water, Light and Power Commission, Fenelon Falls.....	30	"	"	14	1,700	1,840
	Wood Products Co., of Canada, Ltd., Donald.....	31	"	"	7	130	200
	Gananoque Electric Light and Water Supply Co., Ltd.....	32	C. I. R., Prescott.....	1910-11.....	25	1,500	1,750
	The Brockville Light and Power Dept.....	33	"	"	101	7,000	8,010
	Morrisburg Electric Light and Power Co.....	34	"	"	.....	3,500	3,500

2 GEORGE V., A. 1912

## APPENDIX J—Continued.

STATEMENT showing the Electric Light Companies registered under the Electric Light Inspection Act during the year ended  
March 31, 1911—Continued.

Districts.	Name of Company.	Serial Number.	By Whom Certificate Issued.	Certificate for Fiscal Year.	NUMBER OF LAMPS*		
					Arc.	Incan- descent.	Totals.
Belleville .....	St. Lawrence Power Co., Ltd., Moulinette.....	4	C. I. R., Prescott.....	1910-11.....	.....	111	111
	St. Lawrence Power Co., Ltd., Mille Roches.....	5	"	"	230	475	2,775
	St. Lawrence Power Co., Ltd., Wales.....	6	"	"	.....	350	350
	Bishop & Co., Crystler.....	7	"	"	.....	600	600
	Merrickville Electric Light and Power Co.....	8	"	"	1	550	550
	The Vankleek Hill Electric Co., Ltd.....	9	"	"	6	2,240	2,300
	Municipality of the Village of Iroquois.....	10	"	"	14	1,500	1,640
	The Hawkesbury Electric Light and Power Co., Ltd.....	11	"	"	.....	2,483	2,523
	The Cardinal Electric Light Co.....	12	"	"	4	1,500	1,540
	Water and Light Commissioners, Prescott.....	13	"	"	10	5,500	5,600
	The Municipal Corporation of the Town of Alexandria.....	14	"	"	.....	762	762
	The Westport Electric Light and Milling Co., Ltd.....	15	"	"	1	837	847
	Kemptville Milling Co.....	16	"	"	.....	1,500	1,500
	Winchester Electric Plant.....	17	"	"	.....	500	500
Hamilton .....	Simcoe Gas and Water Co., Ltd.....	1	C. I. R., Brantford.....	1910-11.....	37	.....	370
	Western Counties Electric Co., Ltd., Brantford.....	2	"	"	300	30,300	33,300
	The Lugersoll Electric Power and Light Co., Ltd.....	3	"	"	55	3,000	3,550
	The Delhi Light and Power Co., Ltd.....	4	"	"	.....	1,700	1,700
	G. H. Boxall, Embro.....	5	"	"	.....	340	340
	Corporation Town of Paris.....	6	"	"	34	4,000	4,340
	Herbert Webster, Norwich.....	7	"	"	.....	1,908	1,908
	Woodstock Water and Light System.....	8	"	"	175	9,000	10,750
	Tilsenburgh Electric Light Works.....	9	"	"	5	3,850	3,850
	Brantford Street Railway Co.....	10	"	"	.....	150	150
	The Burford Electric Light, Heat and Power Co., Ltd.....	11	"	"	.....	400	400
	J. G. Field, Tavistock.....	12	"	"	.....	750	750
	The Hamilton Cataract, Power, Light and Traction Co., Ltd.....	1	C. I. R., Hamilton.....	1910-11.....	346	12,235	15,685
	The Hamilton Electric Light and Power Co., Ltd.....	2	"	"	972	99,000	10,720
	The Dundas Electric Co., Ltd.....	3	"	"	9	2,968	3,058
	The Electric Power and Manufacturing Co., Hamilton.....	4	"	"	.....	200	200
	The Hamilton Cataract, Power, Light and Traction Co., Ltd., Beaumville.....	1	C. I. R., St. Catharines.....	1910-11.....	.....	1,554	1,554
	Grimsby Electric Plant.....	2	"	"	.....	3,223	3,223

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The Ontario Distributing Co., Ltd., Stamford.	3	"	"	450	450
The Dunville Electric Light Co., Ltd.	4	"	"	1,700	1,820
The Maple Leaf Rubber Co., Ltd., Port Dalhousie.	5	"	"	1,323	1,503
Corporation of the Town of Niagara Falls.	6	"	"	12,000	12,990
The Merritt Electric Light and Power Plant.	7	"	"	900	900
Corporation of the Town of Niagara.	8	"	"	3,000	3,000
Lincoln Electric Light and Power Co., Ltd., St. Catharines.	9	"	"	14,000	15,080
Welland Electric Co.	10	"	"	6,000	6,030
The Corporation of the Town of Thorold.	11	"	"	2,000	2,280
Grimsby Park Co.	12	"	"	600	600
The Lake Erie Excursion Co., Chrysal Beach.	13	"	"	1,500	1,540
<hr/>					
The London Electric Co., Ltd.	1	C. I. R., London	1910-11	50,482	54,532
Helena Costume Co., Ltd., London.	2	"	"	2,000	2,000
The Alvinston Power Co., Ltd.	3	"	"	570	700
The Aylmer Waterworks and Electric Light Department.	4	"	"	3,000	3,120
The Strathroy Electric Light and Waterworks.	5	"	"	4,500	4,650
The West Lorne Electric Light Co., Ltd.	6	"	"	350	410
Walter Mitchell, Port Stanley.	7	"	"	1,500	1,500
Geo. Conliss & Son, Theford.	8	"	"	650	650
H. C. Baird, Son & Co., Ltd., Parkhill.	9	"	"	1,320	1,320
The Petrolia Electric Light, Power, Heat and Gas Co.	10	"	"	2,500	3,000
The Sarnia Gas and Electric Light Co.	11	"	"	8,000	9,250
Hamilton & Prout, Forest.	12	"	"	800	980
City of St. Thomas Light, Heat and Power Department.	13	"	"	6,000	7,000
Rock Glen Power Co., Ltd., Arkona.	14	C. I. R., London	"	350	360
Geo. Chambers, Watford.	15	"	"	700	860
The Dutton Electric Light Co., Ltd.	16	"	"	977	1,027
The Corporation of Glencoe.	17	"	"	630	650
The City of London.	18	"	"	2,000	2,000
Palmerston Electric Light Department.	1	C. I. R., Stratford.	1910-11	1,280	1,420
Corporation of the Town of Goderich.	2	"	"	4,000	4,410
Chas. B. Snell & Co., Znaife, Exeter.	3	"	"	1,300	1,460
The Village of Wroxeter.	4	"	"	450	450
John Passmore, Hensale.	5	"	"	800	800
Scaforth Electric Light, Heat and Power Co.	6	"	"	1,500	1,670
Corporation of the Town of Listowel.	7	"	"	500	500
J. A. Williams, Zurich.	8	"	"	300	300
Corporation of the Town of St. Mary's.	9	"	"	6,350	6,350
The Clinton Electric Light Works Co.	10	"	"	1,800	2,000
E. Livingston, Blyth.	11	"	"	7	670
J. A. Sharpe, Brussels.	12	"	"	1,000	1,050
The Town of Wingham.	13	"	"	4,500	4,880
Stratford Gas Co.	14	"	"	4,500	5,800
The Corporation of the Town of Mitchell.	15	"	"	1,200	1,490
Walkerville Light and Power Co., Ltd.	1	C. I. R., Windsor.	1910-11	3,000	3,010
Sandwich, Windsor and Amherstburg Railway, Windsor.	2	"	"	20,000	20,000
Kingsville Electric Light Co., Ltd.	3	"	"	1,500	1,500
Corporation of the Town of Dresden.	4	"	"	1,540	1,570
Corporation of the Village of Thamesville.	5	"	"	761	781



## APPENDIX J—Continued.

STATEMENT showing the Electric Light Companies registered under the Electric Light Inspection Act during the year ended March 31, 1911—Continued.

Districts.	Name of Company.	Serial Number.	Certificate by whom Issued.	Certificate for Fiscal Year.	NUMBER OF LAMPS.		
					Arc.	Incandescent.	Total.
London	Leamington Light and Heat Co. ....	6	C.I.R., Windsor.	1910-11.	18	1,828	2,008
	Corporation of the Town of Bothwell.	7	"	"	15	500	650
	Tilbury Electric Light Plant.	8	"	"	15	1,000	1,150
	W. H. Macdon. Ridgetown.	9	"	"	15	1,350	1,350
	Chatham Gas Co. ....	10	"	"	25	12,000	12,250
	The Amherstburg Electric Light, Heat and Power Co.	11	"	"		775	775
	Cbs. E. Naylor, Essex.	12	"	"	5	1,300	1,350
	The Municipality of the Town of Blenheim.	13	"	"	17	1,600	1,770
	The Premier Electric Light and Power Co., Ltd., Wallacabung.	14	"	"	31	1,700	2,010
	J. A. Second, Harron.	15	"	"		800	800
	Wigle & Brown, Windsor.	16	"	"		250	250
	Corporation of the City of Windsor.	17	"	"	208	40	2,120
Ottawa	Marchand & Donnelly, Shawville.	1	C.I.R., Ottawa.	1910-11.		350	350
	Albert McLaren, Buckingham.	2	"	"	44	3,000	3,440
	Corporation of the City of Ottawa.	3	"	"	902	70,308	79,398
	Ottawa Electric Light Co.	4	"	"	830	225,051	233,301
	Deschenes Electric Light Co., Ltd., Ottawa.	5	"	"		1,821	1,821
	Hull Electric Co., Aylmer and Hull.	6	"	"	66	13,169	13,829
	The Mattawa Electric Light and Power Co., Ltd.	1	C. I. R., Perth.	1910-11.	14	980	1,120
	Smith's Fall Electric Power Co., Ltd.	2	"	"	68	5,000	5,680
	Almonte Electric Light Commission.	3	"	"	17	3,200	3,370
	The Pembroke Electric Light Co., Ltd.	4	"	"	53	5,020	5,550
	The Canadian Copper Co., Copper Cliff.	5	"	"	8	2,625	2,625
	The Canadian Electric and Water Power Co., Ltd., Perth.	6	"	"		3,500	3,550
	The Carleton Place Electric Light Co.	7	"	"	5	3,500	3,550
	Corporation of the Town of Sudbury.	8	"	"	45	4,000	4,450
	The North Bay Light, Heat and Power Co., Ltd.	9	"	"	38	5,380	5,380
The Municipality of the City of Ottawa	Eganville Star Light and Power Co.	10	"	"		1,300	1,300
	The Sturgeon Falls Electric Light and Power Co., Ltd.	11	"	"	12	2,620	2,620
	Galetta Electric Power and Milling Co., Ltd., Arnprior.	12	"	"		4,500	4,500
	The Renfrew Power Co., Ltd.	13	"	"	56	3,500	4,060
	The Renfrew Electric Co., Ltd.	14	"	"		1,600	1,600
	The Municipal Light Plant, Perth.	15	"	"	53		530



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Toronto .....	16	"	"	20	13	213
The Liskeard Light, Heat and Power Co., New Liskeard .....	17	"	"	40	17,400	17,400
Cobalt Light, Heat and Power Co. ....	18	"	"	.....	400	400
Dowd Milling Co., Pakenham .....	19	"	"	.....	2,200	2,200
Citizens Electric Co., Ltd .....						
The Berlin Light Commissioners .....	1	C.L.R.,	Guelph .....	142	10,000	11,420
Corporation of Hespeeler .....	2	"	"	19	1,950	1,950
Galt Gas Light Co., Ltd. ....	3	"	"	80	10,000	10,800
Bord of Light and Heat Commissioner, Guelph .....	4	"	"	105	16,180	17,250
Drayton Electric Light Co. ....	5	"	"	.....	550	550
Waterloo Electric Light and Power Co. ....	6	"	"	29	4,100	4,200
John Howes, Harrison .....	7	"	"	20	900	1,100
Ratz Bros., Elmira .....	8	"	"	.....	600	600
E. W. B. Snider, St. Jacob .....	9	"	"	.....	300	300
Fergus Electric Light Plant .....	10	"	"	37	2,000	2,370
The Preston Light and Water Commission .....	11	"	"	25	3,600	3,800
Corporation of New Hamburg .....	12	"	"	26	1,200	1,450
The Sanbla Falls Light and Power Co., Watton .....	1	C.L.R.,	Owen Sound .....	28	1,875	2,155
Corporation of Dundalk .....	2	"	"	30	750	1,050
Georgian Bay Power Co., Eugenia .....	3	"	"	.....	400	400
The Teeswater Electric Light Co. ....	4	"	"	10	500	600
Town of Kincardine .....	5	"	"	19	2,232	2,432
The Saugeen Electric Light and Power Co. Ltd., Port Elgin .....	6	"	"	.....	3,000	3,000
H. Gratzner, Hanover .....	7	"	"	13	2,162	2,352
Weinger Milling Co., Ayrton .....	8	"	"	.....	153	153
The Walkerton Electric Light and Power Co., Ltd .....	9	"	"	16	1,800	1,960
Thos. Andrews, Thornbury .....	10	"	"	10	700	800
The Georgian Bay Milling and Power Co. Ltd., Meaford .....	11	"	"	41	3,257	3,613
The Chesley Electric Light Co. ....	12	"	"	30	1,500	1,800
Minnis Bros., Markdale .....	13	"	"	.....	1,400	1,400
Walter Stewart & Son, Lucknow .....	14	"	"	12	500	620
H. Cargill & Son, Cargill .....	15	"	"	.....	600	600
The Paisley Electric Light Co. ....	16	"	"	.....	900	900
Corporation of Collingwood .....	17	"	"	63	8,000	8,630
Corporation of Owen Sound .....	18	"	"	76	20,000	20,760
Norman McIntyre, Durham .....	19	"	"	6	1,500	1,560
Midway Electric Light Co. ....	20	"	"	.....	300	300
Corporation of New Market .....	1	C.L.R.,	Toronto .....	15	3,500	3,500
The Georgetown Electric Light and Power Co., Ltd .....	2	"	"	12	1,300	1,450
L.J. Gould, Uxbridge .....	3	"	"	31	4,514	4,824
Corporation of Whitby .....	4	"	"	.....	600	600
Sunderland Electric and Power Co., Ltd .....	5	"	"	25	5,000	5,250
Corporation of Bracebridge .....	6	"	"	.....	700	700
Aurora Electric Light Co. ....	7	"	"	.....	750	750
Monarch Supply Co. Ltd., Toronto .....	8	"	"	6	810	810
Interurban Electric Co. Ltd., Toronto .....	9	"	"	180	26,000	27,800
The Dufferin Light and Power Co. Ltd., Orangeville, Shelburne and Hominy Mills .....	10	"	"	.....	2,900	2,900
Beaverton Light and Power Co. ....	11	"	"	.....	1,000	1,000
Stagner Electric Light Co. ....	12	"	"	.....	800	800

APPENDIX J—Continued.

STATEMENT showing the Electric Light Companies Registered under the Electric Light Inspection Act, during the year ended March 31, 1911—Continued.

Districts.	Name of Company.	Serial Number.	Certificate by whom Issued	Certificate for Fiscal Year.	NUMBER OF LAMPS.		
					Ave.	Incan- descent.	Totals.
Toronto .....	Toronto Electric Light Co., Ltd.	13	C. I. R., Toronto.	1910-11.	1,800	450,000	408,000
	Allston Electric Light Co.	14	"	"	....	1,600	1,600
	Brampton Electric Light Co.	15	"	"	35	2,700	3,050
	The Cataract Electric Co. Ltd., Orangeville.	16	"	"	30	1,000	1,300
	Jonas Byers, Stouffville.	17	"	"	....	1,200	1,200
	Corporation of Streetsville.	18	"	"	....	400	400
	The Toronto Suburban Railway Co.	19	"	"	....	700	700
	J. C. McClellan & Co., Powassan.	20	"	"	....	400	400
	Corporation of Gravenhurst.	21	"	"	4	2,530	2,540
	Corporation of Thessalon.	22	"	"	13	885	1,015
	W. L. Summerfeldt, Sutton.	23	"	"	..	450	450
	The Penetanguishene and Midland Electric Street Railway, Light and Power Co. Ltd.	24	"	"	20	3,000	3,200
	Corporation of Acton.	25	"	"	....	1,400	1,400
	Simon Plews, Creedmore.	26	"	"	....	650	650
	Western Electric Light System.	27	"	"	....	2,000	2,000
	Oshawa Electric Light Co.	28	"	"	20	6,200	6,200
	Corporation of Markham.	29	"	"	....	1,500	1,500
	Cannington Electric Co.	30	"	"	11	490	600
	Corporation of Parry Sound.	31	"	"	13	4,000	4,130
	Corporation of Huntsville.	32	"	"	6	3,500	3,560
	John Phillips, Grand Valley and Arthur.	33	"	"	....	1,800	1,800
	Corporation of Bertton.	34	"	"	....	750	750
	Hydro Electric System, Toronto.	35	"	"	173	78	1,808
	The Hamilton Cataract Power Light and Traction Co. Ltd., Burlington.	36	"	"	....	3,451	3,451
	Corporation of Barrie.	37	"	"	52	4,000	4,520
	Blind River Light, Heat and Power Co., Ltd.	38	"	"	....	3,000	3,000
	Corporation of Port Perry.	39	"	"	2	1,000	1,020
	Little Current Lumber Co.	40	"	"	37	662	1,032
	Corporation of Midland.	41	"	"	31	4,600	4,910
	Town of Orillia.	42	"	"	52	11,000	11,520
	Corporation of Milton.	43	"	"	20	1,432	1,632
	Sagoma Water and Light Co., Sault Ste. Marie.	44	"	"	216	12,500	14,660

[illegible]

2 GEORGE V., A. 1912

## APPENDIX J—Continued.

STATEMENT showing the Electric Light Companies registered under the Electric Light Inspection Act, during the year ended 31st March, 1911—Continued.

Districts.	Name of Company.	Serial Number.	Certificate by whom issued.	Certificate for Fiscal Year.	NUMBER OF LAMPS.	
					Arc.	Incan- descent.
St. Hyacinthe.	Nelson Buzzell, Cowansville.....	1	C. I. R. St. Hyacinthe.	1910-11.	.....	450
	La Fonderie de Plessisville.....	2	"	"	.....	1,400
	La Compagnie de Gaz. Electricité & Pouvoir, St. Hyacinthe.....	3	"	"	60	12,000
	The St. John's Electric Light Co. Ltd. ....	4	"	"	37	10,370
	The Athabaska Water & Power Co., Victoriaville.....	5	"	"	.....	6,000
	Corporation of the Town of Drummondville.....	6	"	"	.....	1,200
	A. N. Dufresne, St. Cosaire.....	7	"	"	.....	1,900
Three Rivers.	Dion & Paradis, St. Roch de l'Achigan.....	1	C. I. R. Joliette.	1910-11.	.....	500
	La Corporation de la ville de Joliette.....	2	"	"	31	2,900
	Laval Electric Co., l'Assomption.....	3	"	"	.....	1,500
	Laval Electric Co., Charlemagne.....	4	"	"	.....	450
	The North Shore Power Co. Ltd., Three Rivers.....	1	C. I. R. Three Rivers.	1910-11.	130	10,000
	St. Maurice Light and Power Co., Shawinigan Falls.....	2	"	"	19	2,800
	L'Electricité de Grand'Mère.....	3	"	1909-10.	.....	3,000
	L'Electricité de Grand'Mère.....	4	"	1910-11.	.....	3,000
	The Saint John Railway Co.....	1	C. I. R. St. John.	1910-11.	743	36,827
	A. & R. Loggie, Loggieville.....	3	"	"	.....	600
St. John.	The Town of Newcastle.....	4	"	"	27	3,270
	The Corporation of Chatham.....	5	"	"	6	4,700
	The Sussex Manufacturing Co., Ltd. ....	6	"	"	2	1,400
	The St. Stephen Electric Light Co., St. Stephen & Milltown.....	7	"	"	49	2,412
	The Bathurst Electric & Water Power Co. ....	8	"	"	4	3,000
	The Fredericton Gas Light Co. ....	9	"	"	38	5,880
	Water & Light Department of City of Moncton.....	10	"	"	97	12,970
	C. M. Sherwood Ltd., Centreville.....	11	C. I. R., St. John.	1910-11.	.....	400
	The Dorchester Electric Light & Power Co.....	12	"	"	6	2,077
	Andover and Perth Electric Light Commissioners.....	13	"	"	.....	1,500
	The Kent Electric Co. Ltd., Rethibucto.....	14	"	"	.....	2,000
	The Town of Campbellton.....	15	"	"	47	25,000
	The King Lumber Co., Ltd., Chipman.....	16	"	"	3	200
	The Woodstock Electric Railway Light & Power Co.....	17	"	"	40	2,400
	Eastern Electric & Development Co., Port Elgin.....	18	"	"	.....	400
	The Shediac Electric Light & Power Co.....	19	"	"	.....	300
						44,257
						600
						3,270
						4,700
						1,420
						2,902
						3,040
						5,880
						12,970
						400
						2,137
						1,500
						2,000
						25,470
						230
						2,400
						400
						300



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Halifax.....	1	C. I. R. Halifax.....	1910-11.....	2,500	2,500
Edison Electric Light & Power Co., of Springfield Ltd.....	2	"	"	2,100	2,500
The Town of Liverpool, N. S. Electric Light Works.....	3	"	"	300	2,350
Logan & Co., Shubenacadie.....	4	"	"	7,000	300
The Canada Electric Co., Ltd., Amherst.....	5	"	"	1,200	7,250
Town of Annapolis Royal Electric Light Works.....	6	"	"	2,500	1,200
The Yarmouth Street Railway Co., Ltd.....	7	"	"	692	2,550
The Bridgetown Electric Light & Power Co., Ltd.....	8	"	"	3,000	692
Acadia Electric Light Co., Wolfville.....	9	"	"	900	3,000
John Daley, Digby, Kentville Electric Light.....	10	"	"	1,850	900
Kentville Electric Light & Power Co., Ltd.....	11	"	"	500	1,850
Pear River & Digby Electric Light, Heating & Power Co., Ltd.....	12	"	"	500	500
Oxford Electric Co., Ltd.....	13	"	"	800	500
The Town of Shelburne.....	14	"	"	56,710	800
Halifax Electric Trunways Co., Ltd.....	15	"	"	7,000	60,450
Chambers Electric Light & Power Co., Ltd., Truro.....	16	"	"	500	7,000
The Water Commissioners of Mahone Bay.....	17	"	"	3,124	500
Dartmouth Electric Light Heating & Power Co., Ltd.....	18	"	"	2,900	3,124
Town of Bridgewater Electric Light Works.....	19	"	"	3,550	2,900
Windsor Electric Light and Power Co., Ltd.....	20	"	"	2,500	3,550
Lunenburg Gas Co., Ltd.....		"	"		2,500
Acadia Coal Co., Stellarton.....	1	C.I.R., Pictou	1910-11.....	600	730
Sydney Mines Electric Co.....	2	"	"	3,065	3,076
Antigonish Electric Co.....	3	"	"	800	800
Town of Pictou.....	4	"	"	4,000	4,360
The Inverness Railway and Coal Co.....	5	"	"	895	905
Nova Scotia Steel and Coal Co., Ltd., Trenton.....	6	"	"	800	1,470
Pictou County Electric Co., Ltd., New Glasgow.....	7	"	"	11,468	11,978
Town of Glace Bay.....	8	"	"	10,000	10,110
Sydney and Gloucester Bay Railway Co., Ltd., Sydney.....	9	"	"		
Cape Breton Electric Co., Ltd., Sydney.....	10	"	"	16,721	17,061
Cape Breton Electric Co., Ltd., North Sydney.....	11	"	"	4,380	4,610
Port Hood Richmond Railway Coal Co., Ltd.....	12	"	"	550	590
Charlottetown.....	1	C.I.R., Charlottetown.....	1910-11.....	1,000	1,150
The Sun Electric Co., Ltd., Summerside.....	2	"	"	450	450
Montague Electric Light Co.....	3	"	"	15,000	10,250
Charlottetown Light and Power Co., Ltd.....		"	"		
Winnipeg.....	1	C.I.R., Port Arthur.....	1910-11.....	1,200	1,350
Rainy River Electric Light and Power Co.....	2	"	"	90	9,300
Town of Kenora.....	3	"	"	18,221	18,391
Corporation of the City of Port Arthur.....	4	"	"	414	414
The Gordon Pulp and Paper Co., Dryden.....	5	"	"		
The Kaministiquia Power Co., Ltd., Fort William.....	6	"	"	300	300
The Lat Portage Lumber Co., Rainy River.....		"	"		
Town of Carman Electric Light.....	1	C.I.R., Winnipeg.....	1910-11.....	2,440	2,520
Town of Carberry.....	2	"	"	2,300	2,480
The Brandon Electric Light Co., Ltd.....	3	"	"	25,000	26,060
Corporation of the Town of Neepawa.....	4	"	"	19	2,450
The Central Electric and Gas Co., Ltd., Portage la Prairie.....	5	"	"	7,500	7,850





## SESSIONAL PAPER No. 18

City of New Westminster.....	4	"	.....	160	18,000	19,600
Greenwood City Water Works Co.....	5	"	.....	7	2,000	2,070
The Ashcroft Water, Electric & Improvement Co.....	6	"	.....	.....	500	500
The Cranbrook Electric Light Co.....	7	"	.....	.....	3,500	3,500
Corporation of the City of Grand Forks.....	8	"	.....	15	1,600	1,750
Corporation of the City of Kamloops.....	9	"	.....	26	6,000	6,260
Municipality of Spallumcheen.....	10	"	.....	1	1,600	1,610
The Daily Reduction Co., Ltd., Headley.....	11	"	.....	.....	275	275
Sandon Water Works & Light Co.....	12	"	.....	2	320	340
Corporation of the City of Kelowna.....	13	"	.....	24	1,260	1,500
Corporation of the City of Nelson.....	14	"	.....	5	5,400	5,450
Consolidated Mining & Smelting Co., of Canada, Trail.....	15	"	.....	15	1,460	1,610
Kootenay Electric Co., Kaslo.....	16	"	.....	.....	800	800
The Cascade Water Power Co.....	17	"	.....	.....	.....	.....
Mont's Telephone & Electric Light Co., Ltd.....	18	"	.....	.....	450	450
Summerland Development Co.....	19	"	.....	.....	750	750
British Columbia Electric Railway Co., Ltd., Vancouver.....	20	"	.....	1,313	289,516	302,646
British Columbia Electric Railway Co., Ltd., Ladner.....	21	"	.....	.....	1,385	1,585
British Columbia Electric Railway Co., Ltd., North Vancouver.....	22	"	.....	61	7,083	7,633
British Columbia Electric Railway Co., Ltd., Steveston.....	23	"	.....	6	4,000	4,060
British Columbia Electric Railway Co., Ltd., Chilliwack.....	24	"	.....	1	2,443	2,453
The Hosmer Mines Ltd.....	25	"	.....	17	1,432	1,602
The Crow's Nest Pass Electric Light & Power Co., Ltd., Michel.....	26	"	.....	.....	933	933
The Crow's Nest Pass Electric Light & Power Co., Ltd., Coal Creek.....	27	"	.....	.....	500	500
Corporation of the City of Fernie.....	28	"	.....	10	3,700	3,800
Victoria.....	1	C.I.R., Victoria	1910-11.....	.....	2,500	2,500
Corporation City of Ladysmith.....	2	"	"	4	1,850	1,890
Cumberland Electric Light Co., Ltd.....	3	"	"	58	5,000	5,580
Nanaimo Electric Light, Power & Heating Co., Ltd.....	4	"	"	79	91,458	92,248
British Columbia Electric Railway Co., Ltd., Victoria.....	5	"	"	.....	150	150
Victoria Electric Co.....	1	C.I.R., Dawson	1910-11.....	4	5,000	5,040
Dawson.....	2	"	"	.....	800	800
Dawson Electric Light & Power Co., Ltd.....						
Yukon Electrical Co., Ltd., White Horse.....						

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

W. J. GERALD,  
Deputy Minister.

## APPENDIX K.

STATEMENT showing the 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, 1911.

Name of Contractor and Place of Business.	Month.	Units Generated or Produced for Export.	Units Generated or Produced for Consumption in Canada.	Total Output of Generating Station or Other.	Remarks.
Ontario Power Company of Niagara Falls—Niagara Falls, Ontario.	April .....	14,715,715	8,797,785	23,513,500	
	May .....	14,580,622	8,327,978	22,908,600	
	June .....	14,797,535	8,328,965	23,125,500	
	July .....	15,267,696	9,358,304	24,666,000	
	August .....	16,345,104	10,499,896	26,845,000	
	September .....	15,796,944	10,658,856	26,455,800	
	October .....	16,473,736	11,360,764	28,034,500	
	November .....	17,326,824	11,526,376	28,853,200	
	December .....	18,378,480	12,336,220	30,714,700	
	January .....	17,956,620	13,196,180	31,152,800	
	February .....	16,282,885	12,201,415	28,484,300	
	March .....	17,257,690	13,958,210	31,215,900	
	Totals .....	195,379,851	130,590,049	325,969,900	
Canadian Niagara Power Company—Niagara Falls Ontario.	April .....	25,427,540	841,160	26,268,700	
	May .....	25,923,420	1,000,080	26,923,500	
	June .....	25,650,760	877,940	26,528,700	
	July .....	24,930,174	933,526	25,863,700	
	August .....	24,785,260	958,540	25,743,800	
	September .....	24,119,280	962,720	25,082,000	
	October .....	25,558,030	1,004,370	26,562,400	
	November .....	25,393,970	1,093,430	26,487,400	
	December .....	26,667,940	1,174,060	27,842,000	
	January .....	26,129,740	1,220,060	27,349,800	
	February .....	22,043,390	1,132,110	23,175,500	
	March .....	25,244,700	1,212,700	26,457,400	
	Totals .....	301,874,294	12,410,696	314,284,990	

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Electrical Development Company of Ontario, Ltd.— Niagara Falls, Ontario.....	April..... May..... June..... July..... August..... September..... October..... November..... December..... January..... February..... March..... Totals.....	1,628,200 1,918,600 1,300,800 1,535,400 1,928,200 2,300,900 2,650,900 2,702,100 2,920,600 2,176,900 2,111,600 1,434,900 24,609,100	8,374,290 8,336,690 7,979,718 7,924,390 8,348,740 9,001,387 9,264,857 10,633,313 10,987,746 10,677,356 9,966,622 10,323,558 111,220,067	10,002,490 10,254,690 9,280,518 9,459,790 10,276,940 11,302,287 11,915,757 12,737,413 13,908,346 12,854,256 12,078,222 11,758,458 135,829,167
Ontario and Minnesota Power Co., Fort Frances, Ont. April..... May..... June..... July..... August..... September..... October..... November..... December..... January..... February..... March..... Totals.....	April..... May..... June..... July..... August..... September..... October..... November..... December..... January..... February..... March..... Totals.....	49,850 55,415 611,790 1,051,950 1,433,250 1,624,614 1,846,260 1,859,350 1,680,250 1,639,850 1,426,000 1,389,130 14,669,679	5,245 4,695 3,290 ..... 6,185 22,597 53,143 70,468 99,430 101,629 88,910 110,847 566,340	55,095 60,110 614,950 1,051,950 1,441,455 1,647,211 1,899,403 1,929,798 1,779,650 1,741,470 1,514,910 1,499,997 15,286,019
Maine and New Brunswick Electrical Power Co., Ltd., Aroostook Falls, N.B. ....	April..... May..... June..... July..... August..... September..... October..... November..... December..... January..... February..... March..... Totals.....	122,870 122,200 127,213 132,044 143,100 152,900 161,780 170,270 185,200 173,199 133,936 173,889 1,798,591	3,170 2,900 2,892 2,556 2,900 3,050 3,910 4,550 5,000 4,610 3,530 4,671 43,739	126,040 125,100 130,105 134,600 146,000 155,950 165,690 174,820 190,200 177,869 197,456 178,560 1,842,330

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

W. J. GERALD,  
Deputy Minister.

APPENDIX L.

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, 1911.

Name of Contractor.	Place of Business.	UNITS GENERATED FOR EXPORT.		UNITS GENERATED FOR CONSUMPTION IN CANADA.		TOTAL OUTPUT OF GENERATING STATION OR OTHER SOURCES.	
		Kilowatt Hours.	H. P. Years.	Kilowatt Hours.	H. P. Years.	Kilowatt Hour.	H. P. Years.
Canadian Niagara Power Company.	Niagara Falls, Ont. ....	301,874,204	46,194	12,410,696	1,899	314,284,900	48,093
Ontario Power Company. ....	" .....	195,379,851	29,898	130,590,049	19,983	325,969,900	49,881
Electrical Development Company. .	" ..	24,609,100	3,796	111,220,067	17,019	135,829,167	20,785
Ontario & Minnesota Power Co. .	Fort Francis, Ont. ....	14,669,679	2,245	566,340	87	15,236,019	2,332
Maine & New Brunswick Electrical Power Company. ....	Arroostook, N. B. ....	1,798,591	275	43,739	7	1,842,330	282
Totals. ....		538,331,425	82,378	251,830,891	38,995	793,162,316	121,373

INLAND REVENUE DEPARTMENT,  
OTTAWA, June 16, 1911.

W. J. GERALD,  
*Deputy Minister.*







REPORTS, RETURNS AND STATISTICS  
OF THE  
INLAND REVENUES  
OF THE  
DOMINION OF CANADA  
FOR THE FISCAL YEAR ENDED MARCH 31  
1911  
PART III  
ADULTERATION OF FOOD

*PRINTED BY ORDER OF PARLIAMENT*



OTTAWA

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

1912



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# REPORT

## OF THE

### DEPUTY MINISTER OF INLAND REVENUE.

#### INSPECTION OF FOODS, DRUGS AND FERTILIZERS.

To the Hon. WM. TEMPLEMAN,  
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, 1911.

Description.	Genuine.	Doubtful.	Adulterated	Sold as Compound.	Total.
Flour .....	223	0	0	0	223
Beef Iron and Wine.....	76	0	0	0	76
Cond. and Evap. Milk .....	154	0	0	0	154
Sp. M-nth. Pip.....	71	0	0	0	71
Lin. Chloroformi .....	17	0	55	0	72
Turpentine.....	29	56	0	0	85
Packaged Fruit .....	438	0	0	0	438
Fertilizers .....	150	11	0	0	161
Maple Syrup.....	117	4	17	0	138
Maple Sugar.....	102	14	22	0	138
Ground Coffee .....	260	0	26	11	297
Strained Honey .....	122	20	3	3	148
Ice Cream.....	83	37	0	0	125
Butter.....	195	14	2	0	211
Salt.....	215	58	0	0	273
Eff. Phosp. Soda.....	134	0	0	0	134
Cream Tartar.....	238	26	25	0	339
Vinegar.....					84
Catsup.....					75
Total.....	2679	240	150	14	3242

In my report for last fiscal year I pointed out the fact that the Advisory Board had prepared standards for certain food products and the following have now been legalized, viz :—

- Milk and its products.
- Grain products.
- Meat and meat products.
- Beverages.
- Maple sugar and maple syrup.

With these standards established prosecution against persons dealing in, or placing on the market, adulterated goods will be more readily carried on and proper punishment secured.

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The Chief Analyst in his report attached hereto refers to the destruction of the laboratory building in January last, but I am pleased to state that at the present time the building has been reconstructed and the laboratory again established in an even better condition than it was prior to the fire.

The provisions of the Commercial Feeding Stuffs Act, and the Fertilizers Act have, it is believed, worked out to the benefit of the farming community as the products put upon the market under both of these Acts have to be up to the manufacturer's guarantee and the users thereof are in a position to judge of the value of the goods turned out by the respective manufacturers.

I have the honour to be, sir,

Your obedient servant,

W. J. GERALD,

*Deputy Minister.*

INLAND REVENUE DEPARTMENT,  
OTTAWA, Sept. 15, 1911.



SESSIONAL PAPER No. 14

## REPORT OF THE CHIEF ANALYST.

OTTAWA, Aug 18, 1911.

W. J. GERALD, Esq.,

Deputy Minister of Inland Revenue.

SIR,—I beg to report as follows upon the work of this laboratory, for the fiscal year ending March 31, 1911.

During this period 3,753 samples were collected by our inspectors; but only 3,371 are recorded in this report, owing to the fire of the 4th January which destroyed part of the samples collected on November 22 last. Of these a good number were analysed; but results obtained have also been destroyed.

The results of analysis available are detailed in Bulletins 206 to 224, both inclusive, as follows:—

Number of Bulletin.	Subject	Number of Samples.
206	Flour .....	223
207	Beef Iron and Wine.....	76
208	Condensed and Evaporated Milk .....	154
209	Sp. Menthae Pip.....	71
210	Lin. Chloroformi.....	72
211	Oil of Turpentine.....	85
212	Pickaged Fruit .....	438
213	Fertilizers.....	161
214	Maple Syrup.....	138
215	Maple Sugar.....	138
216	Ground Coffee.....	297
217	Strained Honey .....	148
218	Ice Cream .....	125
219	Butter.....	211
220	Table Salt .....	273
221	Eff. Phosphate of Soda.....	134
222	Cream of Tartar .....	339
223	Vinegar .....	84
224	Catsup.....	75
Total.....		3242

In addition to the above there have been performed the following occasional analyses, during the year:—

Acetic Acid Crude .....	20
Alcohol.....	8
Ambrecht's Coca Wine.....	1
Baking Powder.....	2
Beer.....	32
Beet Sugar Syrup .....	1
Borax .....	1
Bread .....	1

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Cheese.....	3
Coal.....	1
Coca-Cols.....	4
Coderre's Infants Syrup.....	2
Coffee.....	1
Cream.....	1
Dog's stomach—(for poisons).....	1
Eggs frozen.....	2
Fertiliz-ers.....	20
Flaxseed.....	1
Flour.....	14
Fusel Oil.....	5
Granulated Sugar.....	1
Hemlock Extract.....	1
Ink.....	1
Lead Arsenate.....	1
Lemon Extract.....	2
Liniment.....	1
Malt Extract.....	1
Maple Sugar.....	2
Maple Syrup.....	4
Mash.....	1
Milk.....	2
Natural Gas.....	1
Neat's Foot Oil;.....	1
Olive Oil.....	1
Paris Green.....	1
Pepper.....	3
Rum.....	1
Skin.....	1
Stock Feed.....	3
Tobacco.....	1
Turpentine..	3
Vinegar.....	10
Vinegar (Excise).....	333
Water.....	6
Whiskey.....	1

504

The total number of analyses made is therefore 3,746. The following solutions have been prepared and supplied for the use of Excise Officers, in vinegar testing:—

Normal Soda Solution.....	92 winchesters.
Standard Phenolphthalein.....	17 bottles.
Standard Sulphuric Acid.....	2 “

The work of defining Foods, under Section 26 of the Adulteration Act has made satisfactory progress, and the following are now in force:—

	Published.	In force.
Meat and Meat products (G. 931)..	Oct. 24, 1910	Nov. 22, 1910
Grain and Grain products (G. 932).	Nov. 7, 1910	Dec. 5, 1910
Amendment (G. 968).....	May 3, 1911	June 7, 1911
Milk and milk products (G. 934).	Nov. 14, 1910	Dec. 12, 1910
Beverages (G. 947).....	Feb. 1911	Mar. 13, 1911
Maple Sugar and Syrup (G. 961) .	Mar. 22, 1911	Apr. 25, 1911

## SESSIONAL PAPER No. 14

The Standards referred to are published in this report. Substantial progress has been made with other standards; and it is to be hoped that further recommendations for definition will be made by your Advisory Board during the present year.

The staff of this laboratory has been strengthened by the addition to it of Mr. Victor Kitto, B.A., Toronto. His appointment dates from April 1, 1910.

The routine work of these laboratories has been greatly interfered with during the past year through many causes, the chief of which may be mentioned here.

1. The destruction of the laboratory building and a large part of its contents by fire on the 4th of January. The fire originated in the Methylating Warehouse below, and was of so sudden and violent character that it was found impossible to effect any saving of valuable apparatus or records. Members of the staff escaped with difficulty, and several of them met with considerable personal losses in clothing and effects. Fortunately the rear annex, which was just approaching completion, escaped total destruction; and was made available for use in the course of a few weeks. At this date (August) the laboratories have been rebuilt and are in working order.

2. A considerable portion of the time of one of my assistants (Mr. Lemoine) has been given to the work of the Patent and Proprietary Medicines Act, in connection with the claims of manufacturers for registration under that Act. To this extent Mr. Lemoine's services as analyst have been curtailed.

3. Mr. A. C. Macfarlane, another of my assistants, was stricken with paralysis in February, 1910, and died in November of that year.

4. Miss Edith Davidson, another assistant analyst, suffered during the year from nervous debility, and sent in her resignation in April of this year. Her attendance at the laboratory was necessarily irregular for some considerable time before that date.

During the interval in which the laboratory was rebuilding, after the fire of January, the services of Mr. A. Valin, bacteriologist, were granted to the City Health Office, on sanction of the Hon. the Minister, namely, from February 4 to April 4. Mr. Valin had much to do with the installation of a chlorinating treatment of the city water supply, made necessary by the discovery of marked sewage pollution; and his services, in this regard, have been gratefully acknowledged by the City Council.

The details of analytical work done during the year are contained in the nineteen bulletins (Nos. 206 to 224) accompanying this report; to which are also added the definitions of standards which have been issued during the year.

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

A. MCGILL,  
*Chief Analyst.*

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DEPARTMENT OF INLAND REVENUE,

OTTAWA, October 24, 1910.

## MEMORANDUM.

Under the authority of an Order of His Excellency in Council bearing date the 14th instant, and in virtue of the provisions of the twenty-sixth section of the 'Adulteration Act,' the following standards of quality have been established for 'Meats and the principal Meat Products':—

## A.—MEATS.

1. Meat, flesh, is any clean, sound dressed and properly prepared edible part of animals in good health at the time of slaughter, and if it bears a name descriptive of its kind, composition, or origin, it corresponds thereto. The term 'animals' as herein used, includes not only mammals, but fish, fowls, crustaceans, mollusks, and all other animals used as food.

2. Fresh meat is meat from animals recently slaughtered and properly cooled until delivered to the consumer.

3. Cold storage meat is meat from animals recently slaughtered and preserved by refrigeration until delivered to the consumer.

4. Salted, pickled, and smoked meats are unmixed meats preserved by salt, sugar, vinegar, spices, or other harmless substances, or smoke, singly or in combination, whether in bulk or in suitable containers.

NOTE.—Suitable containers for keeping moist food products such as syrups, honey, condensed milk, soups, meat extracts, meats, manufactured meats and undried fruits and vegetables, and wrappers in contact with food products, contain on their surfaces, in contact with the food product, no lead, antimony, arsenic, zinc or copper or any compounds thereof or any other poisonous or injurious substances. If the containers are made of tin plate, they are outside soldered, or if soldered inside, the solder used shall consist of pure tin only; and the plate in no place contains less than one hundred and thirteen (113) milligrams of tin on a piece five (5) centimeters square or one and eight-tenths (1.8) grains on a piece two (2) inches square.

This is equivalent to two (2) pounds of tin per base box; but it must be noted that the regulation requires not only a minimum weight of tin per base box, but that this tin shall be evenly distributed over the surfaces of the plate.

The inner coating of the containers is free from pin holes, blisters and cracks.

If the tin plate is lacquered, the lacquer completely covers the tinned surface within the container and yields to the contents of the container no lead, antimony, arsenic, zinc, or copper or any compounds thereof, or any other poisonous or injurious substance.

5. Oysters.—Water must not be added directly either as such, or in the form of ice, to shucked oysters.

## B. - MANUFACTURED MEATS.

1. Manufactured meats are meats not included in paragraphs 2, 3 and 4, of Section A, whether simple or mixed, whole or comminuted, in bulk or in suitable containers, with or without the addition of salt, sugar, vinegar, spices, or other harmless substances, smoke, oils, or rendered fat. If they bear names descriptive of kind, composition, or origin, they correspond thereto, and when bearing such descriptive names, if force or flavouring meats are used the kind and quantity thereof are made known.

2. Sausage, sausage meat, is a comminuted meat from swine or neat cattle, or a mixture of such meats, either fresh, salted, pickled or smoked with added salt and spices and with or without the addition of edible animal fats, cereals, blood and sugar, or subsequent smoking. It contains no larger amount of water than the meats from which it is prepared contain when in their fresh condition, and not more than ten (10) per cent of its weight of cereals; and if it bears a name descriptive of kind, composition or origin, it corresponds to such descriptive name. All animal tissues used as containers, such as casings, stomachs, &c., are clean and sound and impart to the contents no other substance than salt.



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3. Blood sausage is sausage to which has been added clean fresh blood from neat cattle or swine in good health at the time of slaughter.

4. Canned meat is the cooked meat of fowls, neat cattle or swine, preserved in hermetically sealed packages, and fulfils the conditions defined by the Meat and Canned Foods Act of 1907.

5. Corned or cured meat is meat cured or pickled with dry salt or in brine, with or without the addition of sugar or other harmless substances.

6. Potted meat is comminuted and cooked meat from those parts of the animal ordinarily used for food in the fresh state, with or without salt and spices, and enclosed in suitable containers hermetically sealed.

Cereals, when present, must not exceed ten (10) per cent by weight, unless declared.

7. Meat loaf is a mixture of comminuted cooked meat, with or without spices, cereals, milk and eggs, and pressed into a loaf. If it bears a descriptive name, it corresponds thereto.

8. Mince, mince meat is a mixture of chopped suet, apple and other fruit, salt and spices, with sugar, syrup or molasses, and with or without vinegar, fresh, concentrated, or fermented fruit juices, or spirituous liquors, or cooked, comminuted meat.

## C.—MEAT EXTRACTS, MEAT PEPTONES, GELATIN, &amp;C.

1. Meat extract is the product obtained by extracting fresh meat with water and concentrating the liquid portion by evaporation after the removal of fat, and contains not less than seventy-five (75) per cent of total solids of which not over twenty-seven (27) per cent is ash, and not over twelve (12) per cent is sodium chloride (calculated from the total chlorine present), not over six-tenths (0.6 per cent is fat and not less than eight (8) per cent is nitrogen. The nitrogenous compounds contain not less than forty (40) per cent of meat bases and not less than ten (10) per cent of kreatin and kreatinin.

2. Fluid meat extract is identical with meat extract except that it is concentrated to a lower degree and contains not more than seventy-five (75) and not less than fifty (50) per cent of total solids.

3. Bone extract or stock is the product obtained by extracting clean, fresh, trimmed bones, of animals in good health at the time of slaughter, with boiling water and concentrating the liquid portion by evaporation, after removal of the fat, and contains not less than seventy-five (75) per cent of total solids.

4. Fluid bone extract is identical with bone extract except that it is concentrated to a lower degree and contains not more than seventy-five (75) and not less than fifty (50) per cent of total solids.

5. Meat juice is the fluid portion of muscle fibre, obtained by pressure or otherwise, and may be concentrated by evaporation at a temperature below the coagulating point of the soluble proteids. The solids contain not more than fifteen (15) per cent of ash, not more than two and five-tenths (2.5) per cent of sodium chloride (calculated from the total chlorine present,) not more than four (4) nor less than two (2) per cent of phosphoric acid ( $P_2O_5$ ) and not less than twelve (12) per cent of nitrogen. The nitrogenous bodies contain not less than thirty-five (35) per cent of coagulable proteids and not more than forty (40) per cent of meat bases.

6. Peptones are products prepared by the digestion of proteid material by means of enzymes or otherwise, and contain not less than ninety (90) per cent of proteoses and peptones.

7. Gelatin (edible gelatin) is the purified, dried, inodorous product of the hydrolysis, by treatment with boiling water, of certain tissues, as skin, ligaments and bones, from sound animals, and contains not more than two (2) per cent of ash and not less than fifteen (15) per cent of nitrogen.

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## D.—LARD.

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, &c, is a mixture of animal and vegetable fats and oil. 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 standards above defined take effect on the 22nd day of November prox.

W. J. GERALD,  
*Deputy Minister.*

DEPARTMENT OF INLAND REVENUE,  
OTTAWA, November 7, 1910.

## MEMORANDUM.

Under the authority of an Order of His Excellency in Council bearing date 29 October 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 'Grain Products.'

## GRAIN PRODUCTS.

1. Grain is the fully matured, clean, sound, air-dry seed of wheat, maize, rice, oats, rye, buckwheat, barley, sorghum, millet or spelt.

2. Meal is the clean, sound product made by grinding grain.

3. Flour is the fine, clean sound product made by bolting wheat meal, and contains not more than thirteen and one-half (13.5) per cent of moisture, not less than one and twenty-five one hundredths (1.25) per cent of organic nitrogen, not more than two (2) parts per million of nitrite reacting nitrogen, not more than one (1) per cent of ash, and not more than fifty one-hundredths (0.50) per cent of fibre.

4. Bleached Flour is flour which has undergone processing for the purpose of making it lighter in colour. The residual nitrite reacting nitrogen must not exceed five (5) parts per million. The presence of two (2) parts per million of nitrite reacting nitrogen in flour shall be held to be proof of its having been bleached by oxides of nitrogen.

5. Graham Flour is unbolted wheat meal.

6. Gluten Flour is the clean, sound product made from flour by the removal of starch, and contains not less than five and six-tenths (5.6) per cent of nitrogen, not more than ten (10) per cent of moisture, and not more than fifty (50) per cent of starch.

7. Maize Meal, Corn Meal, Indian Meal, is meal made from sound maize grain, and contains not more than fourteen (14) per cent of moisture, not less than one and twelve one hundredths (1.12) per cent of nitrogen, and not more than one and six-tenths (1.6) per cent of ash.

8. Rice is the hulled, or hulled and polished grain of *Oryza sativa*.

9. Rice Flour is the clean, sound product made by bolting rice meal, and contains not more than fifteen (15) per cent of moisture, not less than one (1) per cent of nitrogen, and not more than one (1) per cent of ash.

10. Oatmeal is meal made from hulled oats, and contains not more than twelve (12) per cent of moisture, not more than one and eight-tenths (1.8) per cent of crude



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fibre, not less than two (2.00) per cent of nitrogen, and not more than two and two-tenths (2.2) per cent of ash.

11. Rye Flour is the fine, clean, sound product made by bolting rye meal, and contains not more than thirteen and one-half (13.5) per cent of moisture, not less than one and thirty-six one-hundredths (1.36) per cent of nitrogen, and not more than one and twenty-five one hundredths (1.25) per cent of ash.

12. Buckwheat Flour is bolted buckwheat meal, and contains not more than twelve (12) per cent of moisture, not less than one and twenty-eight one hundredths (1.28) per cent of nitrogen, and not more than one and seventy-five one hundredths (1.75) per cent of ash.

13. Bran is a product of the milling of wheat or other grain, and contains not less than fourteen (14) per cent of proteids, not less than three (3) per cent of fat, and not more than ten (10) per cent of crude fibre.

14. Shorts or Middlings is the coarser material sifted out from the products of a second treatment of the grain by crushing the coarsely ground material that is sifted out from the bran after the first grinding; and contains not less than fifteen (15) per cent of proteids, not less than four (4) per cent of fat, and not more than eight (8) per cent of crude fibre.

15. Chop-Feed is whole grain of one or more kinds more or less finely ground, and contains not less than ten (10) per cent of proteids not less than two (2) per cent of fat, and not more than ten (10) per cent of crude fibre.

16. Corn Starch is the starch obtained from maize or Indian Corn (*Zea Mais*), and contains not less than eighty four (84) per cent of actual starch, and not more than thirteen (13) per cent of water, and not more than one (1) per cent of ash, and not more than three (3) per cent of substances other than starch and water.

NOTE 1.—Proteids as employed in the foregoing definitions means the product of multiplying organic nitrogen by 6.25.

NOTE 2.—Nitrite reacting Nitrogen is stated as Sodium Nitrite—(Na No.)—which for purposes of this definition is identical with nitrogen.

NOTE 3.—The Griess-Hosvay method of determining nitrite nitrogen, described in Sutton's Volumetric Analysis, 8th Edition, p. 486 (J. & A. Churchill, London), is made official.

The standards above defined take effect on the fifth day of December prox.

W. J. GERALD,  
*Deputy Minister.*

DEPARTMENT OF INLAND REVENUE,  
OTTAWA, May 3, 1911.

## MEMORANDUM.

Under the authority of an Order of His Excellency in Council, bearing date the first day of May instant, paragraphs 13, 14 and 15 of the Order in Council of the 29th October, 1910, establishing standards of quality for grain products, have been cancelled and the following substituted in lieu thereof:—

13. Bran is a product of the milling of wheat or other grain, and contains not less than fourteen (14) per cent of proteids, not less than three (3) per cent of fat, not more than ten (10) per cent of crude fibre and must be free from vital seeds of any of the noxious weeds defined by the Governor in Council under 'The Seed Control Act.'

14. Shorts or middlings is the coarser material sifted out from the products of a second treatment of the grain by crushing the coarsely ground material that is sifted out from the bran after the first grinding; and contains not less than (15) per cent of proteids, not less than four (4) per cent of fat, not more than eight (8) per cent of crude fibre and must be free from vital seeds of any of the noxious weeds defined by the Governor in Council under 'The Seed Control Act.'

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15. Chop-feed is whole grain of one or more kinds more or less finely ground, and contains not less than ten (10) per cent of proteids, not less than two (2) per cent of fat, not more than ten (10) per cent of crude fibre and must be free from vital seeds of any of the noxious weeds defined by the Governor in Council under 'The Seed Control Act.'

These amended standards will come into force on the seventh day of June proximo.

W. J. GERALD,  
*Deputy Minister.*

DEPARTMENT OF INLAND REVENUE,  
OTTAWA, November 14th, 1910.

#### MEMORANDUM.

Under the authority of an Order in Council of His Excellency in Council bearing date the 3rd day of November instant, and in virtue of the provisions of the 26th section of the Adulteration Act, the following standards of quality have been established for milk and its products:—

#### MILK AND ITS PRODUCTS.

1. Milk, unless otherwise specified, is the fresh, clean and unaltered product, obtained by the complete, uninterrupted milking, under proper sanitary conditions, of one or more healthy cows, properly fed and kept, excluding that obtained within two weeks before and one week after calving, and contains not less than three and one quarter (3.25) per cent of milk fat, and not less than eight and one half (8.50) per cent of milk solids, other than fat.

2. Skim Milk is milk from which a part or all of the cream has been removed, and contains not less than eight and one half (8.50) per cent of non-fat milk solids.

3. Pasteurized Milk is milk that has been heated below boiling, but sufficiently to kill most of the active organisms present; and immediately cooled to 45° F., or lower, and kept at a temperature not higher than 45° F., until delivered to the consumer, at which time it shall not contain more than 10,000 bacteria per cubic centimetre.

4. Sterilized milk is milk that has been heated at the temperature of boiling water, or higher, for a length of time sufficient to kill all organisms present; and must be delivered to the consumer in a sterile condition. Sterilized milk shall not be sold or offered for sale, except in hermetically closed containers bearing the words 'This milk should be used within twelve (12) hours after opening the container.'

\*5. Certified Milk. Milk sold as certified milk shall comply with the following requirements:—

(a) It shall be taken from cows semi-annually subjected to the tuberculin test, and found without reaction.

(b) It shall contain not more than 10,000 bacteria per cubic centimetre from June to September; and not more than 5,000 bacteria per cubic centimetre from October to May, inclusive.

\*NOTE.—It is evident that the weight carried by the term 'certified' will depend upon the character of the organization which assumes responsibility. Doubtless this will usually be a local medical association; but there is nothing to prevent any responsible body of properly qualified persons from undertaking the production of Certified Milks.

It is difficult to see in what manner the Adulteration Act can be made to apply to the case of certified milk, except in the sense of requiring that a definite food material must be true to name.

The requirements above enumerated are such that their complete fulfilment can only be properly vouched for by a local system of inspection, not provided for by the Adulteration Act. The history of milk certification, in the sense described, suffices to prove the great benefits conferred upon a community which adopts such a method of ensuring a pure product for the use of infants and invalids; and the Department of Inland Revenue, in administering the Adulteration Act, will do everything possible to assist in securing the maintenance of the high standard for certified milk which has been set by Medical Commissions, as above defined. At the same time, it is recognized that the efficient carrying out of this programme must chiefly rest with the local commission.

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- (c) It shall be free from blood, pus, or disease producing organisms.
  - (d) It shall be free from disagreeable odour or taste.
  - (e) It shall have undergone no pasteurization or sterilization, and be free from chemical preservatives.
  - (f) It shall have been cooled to 45° F., within half an hour after milking, and kept at that temperature until delivered to the consumer.
  - (g) It shall contain 12 to 13 per cent of milk solids, of which at least 3·5 per cent is fat.
  - (h) It shall be from a farm whose herd is inspected monthly by the veterinarian, and whose employees are examined monthly by a physician.
6. Evaporated Milk 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.
7. 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.
8. Condensed Skim Milk is skim milk from which a considerable portion of water has been evaporated, with or without the addition of sugar.
9. Buttermilk is the product that remains when butter is separated from ripened cream, by the usual churning processes; or a similar product, made by the appropriate treatment of skimmed milk.
10. Goat's Milk, Ewe's Milk, &c., are the fresh, clean, lacteal secretions, free from colostrum, obtained by the complete milking of healthy animals other than cows, properly fed and kept, and conform in name to the species of animals from which they are obtained.

## CREAM.

1. Cream is that portion of milk, rich in milk fat, which rises to the surface of milk on standing, or is separated from it by centrifugal force, is fresh and clean, and contains (unless otherwise specified) not less than eighteen (18) per cent of milk fat.
2. When guaranteed to contain another percentage of milk fat than eighteen (18) per cent it must conform to such guarantee.
3. Cream must be entirely free from gelatine, sucrate of lime, gums or other substances added with a view to give density, consistency or apparent thickness to the article.
4. Cream must contain no preservatives of any kind, nor any colouring matter, other than is natural to milk.
5. Evaporated Cream, Clotted Cream, Condensed Cream or any other preparation purporting to be a special cream, except ice-cream, must conform to the definition of cream, and must contain at least twenty-five (25) per cent of milk fat.

## MILK FAT OR BUTTER FAT.

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

## BUTTER.

1. 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 eighty-two and five-tenths (82·5) per cent milk fat, and not more than sixteen (16) per cent of water. Butter may also contain added colouring matter of harmless character.

## CHEESE.

1. Cheese is the sound, solid, and ripened product made from milk or cream by coagulating the caseine thereof with rennet or lactic acid, with or without the addition

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of ripening ferments and seasoning, and contains, in the water-free substance, not less than forty-five per cent of milk fat. Cheese may also contain added colouring matter of harmless character.

2. Skim Milk Cheese is the sound, solid and ripened product made from skim milk coagulating the caseine thereof with rennet or lactic acid, with or without the addition of ripening ferments and seasoning.

3. Goat's Milk Cheese, Ewe's Milk Cheese, &c., are the sound, ripened products made from the milks of the animals specified, by coagulating the caseine thereof with rennet or lactic acid with or without the addition of ripening ferments and seasoning.

#### ICE-CREAMS.

1. Ice-Cream is a frozen product, made from cream and sugar with or without harmless flavouring and colouring materials and with or without gelatine gum tragacanth, or other harmless stiffening materials, in amount less than two (2) per cent; and contains not less than fourteen (14) per cent of milk fat.

2. Fruit Ice-Cream is a frozen product, made as described under ice-cream, but containing sound, clean and mature fruit. It must contain not less than twelve (12) per cent of milk fat.

3. Nut Ice-cream, is a frozen product, made as described under ice-cream, but containing sound, non-rancid nuts. It must contain not less than twelve (12) per cent of milk fat.

#### MISCELLANEOUS MILK PRODUCTS.

1. Whey is the product remaining after the removal of fat and caseine from milk in the process of cheese-making.

2. Kumiss is the product made by the alcoholic fermentation of mare's milk or cow's milk.

3. Milk Powder is 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.

4. Skim Milk Powder, Separated Milk Powder is the soluble powder product made from skim milk, and contains not less than ninety-five (95) per cent of milk solids.

NOTE.—The following note is suggested as an addition to definition 3:—‘Pasteurization should be effected by heating in a closed vessel for not less than 20 minutes at a temperature of 140°-145°F; or for not less than 15 minutes at a temperature of 145-15°F. When milk is heated above 150°F., certain ferments and other constituents of the milk are more or less altered, and the digestibility of the resultant milk is injuriously affected.’

The standards above defined take effect on the 12th day of December prox.

W. J. GERALD,  
*Deputy Minister.*



## SESSIONAL PAPER No. 14

DEPARTMENT OF INLAND REVENUE,  
OTTAWA, February 11, 1911.

## MEMORANDUM.

Under the authority of an Order of His Excellency in Council bearing date the 8th day of February instant, and in virtue of the provisions of the 26th section of the Adulteration Act, the following standards of quality have been established for Beverages and Fruit Juices:—

## BEVERAGES.

## FRUIT JUICES—FRESH, SWEET AND FERMENTED.

1. *Fresh Fruit Juices.*

1. Fresh Fruit Juices are the clean unfermented liquid products obtained by the first pressing of fresh, ripe fruit, and correspond in name to the fruits from which they are obtained, and contain not more than two (2) per cent of alcohol by volume. (Equivalent to three and one half (3.5) per cent of proof spirit)

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.

3. Grape juice, grape must, is the fresh fruit juices obtained from grapes (*Vitis* species), has a specific gravity (20°C.) not less than 1.0400 and not exceeding 1.1240; and contains in one hundred (100) cubic centimetres (20°C.) not less than seven (7) grammes nor more than twenty-eight (28) grammes of total sugars, in terms of reducing sugars, not less than twenty (20) centigrammes and not more than fifty-five (55) centigrammes of grape ash, and not less than fifteen (15) milligrammes nor more than seventy (70) milligrammes of phosphoric acid ( $P_2O_5$ )

4. Lemon Juice is the fresh fruit juice obtained from lemon, the fruit of *Citrus limonum*, *Risso* has a specific gravity (20°C.) not less than 1.030 and not greater than 1.040 and contains not less than ten (10) per cent of solids, and not less than seven (7) per cent of citric acid.

5. Lime juice, lime fruit juice, is the fresh fruit juice obtained from lime fruit (*Citrus limetta*); has a specific gravity at 20°C. not less than 1.030, and not greater than 1.040, and contains not less than ten (10) per cent of solids and not less than seven (7) per cent of free citric acid. Its optical activity (rotatory power to polarized light) lies between the limits + 0°5 and — 0°5 of the Soleil-Ventzke scale, when observed in a column of 200 mm. length, at 20°C.

6. Pear Juice, pear must, sweet perry, is the fresh fruit juice obtained from pears, the fruit of *Pyrus communis* or *P. sinensis*.

2. *Sterilized Fruit Juices.*

1. Sterilized fruit juices, are the products obtained by heating fresh fruit juice sufficiently to kill all the organisms present, and correspond in name to the fruits from which they are obtained.

3. *Concentrated Fruit Juices.*

1. Concentrated fruit juices are clean, sound fruit juices from which a considerable portion of the water has been evaporated, and correspond in name to the fruits from which they are obtained.

4. *Sweet Fruit Juices, Sweetened Fruit Juices, Fruit Syrups.*

1. Sweet fruit juices, sweetened fruit juices, fruit syrups, are the products obtained by adding sugar (sucrose) to fresh fruit juices, and correspond in name to the fruits from which they are obtained.

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2. Sterilized fruit syrups are the products obtained by the addition of sugar (sucrose) to fresh fruit juices, and heating them sufficiently to kill all the organisms present, and correspond in name to the fruits from which they are obtained.

#### 5. *Fermented Fruit Juices.*

1. Wine is the product of the normal alcoholic fermentation of the juice of sound ripe grapes, neat or variously modified, and followed by a proper cellar treatment.

2. All beverages sold or offered for sale as wine shall be distinctly labelled to show the place of their production; and shall meet the requirements for wine, which are established by law in the place of their production.

3. Wine made in any part of Canada shall be labelled in such a way as to show the locality in which it has been produced. The specific name of such locality, together with the names of the makers, shall be held to be a legal description of the article.

NOTE.—The defining of types of Canadian made Wines is postponed until sufficient data have been secured.

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.

5. Sparkling cider, Champagne cider, is cider impregnated with carbonic acid under pressure, either by conducting the afterpart of the fermentation in closed containers, or otherwise, with or without the addition of cider or sugar-liquor, and contains, in one hundred (100) cubic centimetres (20°C.), not less than twenty (20) centigrams of cider ash.

#### 6. *Malt Liquors and Malt Beverages.*

1. Malt liquor is a beverage made by the alcoholic fermentation of an infusion, in potable water, of barley malt and hops.

2. Ale or beer is a beverage produced by top fermentation of an infusion, in potable water, of barley malt and hops; with or without other starchy and saccharine matters, and contains in one hundred (100) cubic centimetres (20°C.) not less than two and seventy-five one-hundredths (2.75) grammes of alcohol (equivalent to six (6) per cent by volume of proof spirits), nor less than three and one half (3.5) grammes of extract, and not less than eleven one-hundredths (0.11) gramme of ash chiefly potassium phosphate.

3. Porter and stout are varieties of ale or beer made in part from highly roasted malt, or barley, and agree, in other respects, with the requirements for ale and beer.

4. Lager beer, is beer produced by bottom fermentation which contains, in one hundred (100) cubic centimetres (20°C.), not less than three and one-half (3.5) grammes of extractive matter and eleven one-hundredths (0.11) gramme of ash, chiefly potassium phosphate, and not less than two and fifty hundredths (2.50) grammes of alcohol, equivalent to four and four-tenths (4.4) per cent by volume, of proof spirits.

5. Light beer, is a beer, containing in one hundred (100) cubic centimetres, at 20°C. less than two (2) grammes of alcohol (equivalent to less than four and four-tenths (4.4) per cent by volume of proof spirits.)

#### 7. *Spirituous Liquors.*

1. Crude alcohol or distilled spirits is the distillate obtained from a fermented mash of cereals, molasses, sugars, fruits, or other fermentable substances, and contains all the volatile flavours, essential oils, and other substances derived directly from the materials used, and the higher alcohols, ethers, acids and other volatile bodies, congeneric with ethyl alcohol produced during fermentation, which are carried over at the ordinary temperatures of distillation and the principal part of which are higher alcohols estimated as amyllic.

NOTE.—The term alcohol is here restricted to ethyl alcohol. This is in accord with ordinary usage. It is true that as a scientific term the word alcohol includes not only wood spirit (methyl hydroxide) but glycerine (a tri-hydric



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alcohol), and very numerous bodies, either quite unknown to ordinary English, or known by special names. When the word alcohol is used without any specifically modifying term, *ethyl alcohol* is to be understood. If methyl alcohol, propyl alcohol, or other alcohol is meant, the adjunct methyl, propyl, &c., must be used along with the word alcohol.

2. Alcohol, commercial alcohol, is crude alcohol from which the greater part of its constituents other than ethyl alcohol and water are separated, and contains not less than ninety-four and two-tenths (94·2) parts by volume of ethyl hydroxide in one hundred parts by volume (65 over-proof) provided, however, that such spirits may be of less than this strength, when the actual percentage is legibly and distinctly marked on each and every package, parcel, bottle, or other container of such spirits.

3. Pure alcohol, cologne spirits, neutral spirits, velvet spirits or silent spirits, is crude alcohol from which all, or practically all of its constituents except ethyl alcohol and water are separated, and contains not less than ninety-four and two-tenths (94·2) parts by volume of ethyl hydroxide, in one hundred parts by volume (65 over proof), provided, however, that such spirits may be of less than this strength when the actual percentage is legibly and distinctly marked on each and every package, parcel, bottle, or other container of such spirits.

4. Whisky is spirit obtained by distillation from a mash of cereal grains, saccharified by the diastase of malt; and contains not less than 42·75 per cent of absolute alcohol by volume; equivalent to 75 per cent by volume of proof spirits, except as provided in section 14 below.

5. Scotch whisky, is whisky made in Scotland, and contains not less than 42·75 per cent of absolute alcohol by volume; equivalent to 75 per cent by volume of proof spirits, except as provided in Section 14 below.

6. Irish whisky made in Ireland, and contains not less than 42·75 per cent of absolute alcohol by volume; equivalent to 75 per cent by volume of proof spirits, except as provided in Section 14 below.

7. Brandy is a spirit obtained by the distillation of wine, and contains not less than 42·75 per cent of absolute alcohol by volume; equivalent to 75 per cent by volume of proof spirits, except as provided in Section 14 below.

8. Imitation brandy and British brandy, are compounded spirits, prepared by a rectifier, or compounder, by redistilling duty paid spirits, made from grain, with flavouring ingredients, or by adding flavouring materials to such spirits, and contains not less than 42·75 per cent of absolute alcohol by volume; equivalent to 75 per cent by volume of proof spirits, except as provided in Section 14 below.

9. Rum is a potable spirit distilled direct from sugar cane products, in sugar cane growing countries, and contains not less than 42·75 per cent of absolute alcohol by volume; equivalent to 75 per cent by volume of proof spirits except as provided in Section 14 below.

10. Canadian rum is a spirit distilled in Canada from Canadian molasses, and contains not less than 42·75 per cent by volume of absolute alcohol, equivalent to 75 per cent by volume of proof spirits, except as provided in Section 14 below.

11. Imitation rum is a compounded spirit prepared by a rectifier or compounder by redistilling duty paid spirits, with flavouring ingredients; or by adding flavouring materials to such spirits, and contains not less than 42·75 per cent of absolute alcohol by volume; equivalent to 75 per cent by volume of proof spirits except as provided in Section 14 below.

12. Gin is a potable spirit sweetened or unsweetened, distilled only by those who hold a distiller's or rectifiers license, and use the necessary stills and plant under the control of the Excise for the purpose. It is made of grain spirit specially rectified and redistilled with juniper berries and other flavouring herbs; and contains not less than thirty-seven (37) per cent of absolute alcohol by volume; equivalent to sixty-five (65) per cent by volume of proof spirits, except as provided in Section 14 below.

13. Imitation gin is a compounded spirit, prepared by a rectifier or compounder from duty paid spirits, by adding flavouring materials to such spirits, and contains not less than thirty seven (37) per cent of absolute alcohol by volume; equivalent to sixty-five (65) per cent by volume of proof spirits, except as provided in Section 14 below.

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14. It shall not be held to be a violation of any of the foregoing definitions and regulations if a spirituous liquor designated by any of the names mentioned under Section 4 to 13 inclusive contain a lower percentage of absolute alcohol, or of proof spirits, than the percentage stated as a minimum in the definition, provided that the percentage actually contained be printed legibly and distinctly upon each and every package, parcel, bottle or other container of such spirituous liquor.

15. The word *blended*, when applied to spirituous liquors of any kind, shall mean that liquors of the same species are mixed together; for example, whisky with whisky, brandy with brandy, &c.

16. The word *compounded*, when applied to spirituous liquors, shall be held to imply that other substances than the article named, but of harmless character, have been added to the principal spirituous liquor; that is, to the spirituous liquor which gives its name to the compound.

17. Liqueurs, cordials, &c., are compounded spirits, containing sugar and other dissolved matters, and prepared from distilled spirits, or from alcohol, by infusion, by distillation or by the use of essences, &c.

The standards above defined take effect on the 13th day of March prox.

W. J. GERALD,  
*Deputy Minister.*

DEPARTMENT OF INLAND REVENUE,  
OTTAWA, March 22, 1911.

#### MEMORANDUM.

Under the authority of an Order of His Excellency in Council bearing date the 20th instant, and in virtue of the provisions of the twenty-sixth section of the 'Adulteration Act,' the following standards of quality have been established for 'Maple Sugar and Maple Syrup':—

#### MAPLE SUGAR.

Maple Sugar is the solid product resulting from the evaporation of maple sap, or of maple syrup, and contains not more than ten (10) per cent of water. It yields not less than five-tenths (0.5) of one per cent of ash, reckoned on the dry matter of the sugar. It yields not less than four-tenths (0.4) of one per cent of malic acid, reckoned on the dry matter, when worked by the method No. 1, described below; not less than two and two-tenths (2.2) as *Lead Subacetate Number*, when worked as described under method 2, below.

*Method No. 1.*—Six and seven-tenths grammes of the sample is weighed into a 200cc. beaker and water added to make a volume of 20cc. The solution is made slightly alkaline with ammonia, 1cc. of a ten per cent solution of calcium chloride is added; then 60cc. of 95 per cent alcohol. The beaker is covered with a watch glass and heated for one-half hour on a water bath, when the flame is turned off and the beaker left to stand over night. The material in the beaker is then filtered through a good quality filter paper, the precipitate washed with hot 75 per cent alcohol to freedom from soluble calcium salt, dried and ignited. From 15 to 20cc. of tenth normal hydrochloric acid is added to the ignited residue, the lime thoroughly dissolved by careful boiling, and the excess of acid titrated with tenth normal sodium hydroxide, using methyl orange as an indicator. One-tenth of the number of cubic centimeters of acid neutralized express the result, which for the present will be called 'Malic Acid Value.'

*Method No. 2.*—Five grammes (5) of sugar is dissolved in water, to a volume of 20cc. Two (2) ccs. of a solution of subacetate of lead is added, and the solutions thoroughly mixed. After standing for two (2) hours, the precipitate is filtered off, using

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a Gooch crucible or a sugar tube packed with asbestos, and washed four or five times with hot water, using the suction pump, dried and weighed. The weight of the dry precipitate in grammes is multiplied by 22.22. The product is the *Lead Subacetate Number*.

Mode of preparation of Solution of Subacetate of Lead, as follows :—

Boil for half an hour 430 grammes of normal lead acetate and 130 grammes of litharge with 1000cc. water. Cool the mixture, allow to settle, and dilute the supernatant liquid to 1.26 specific gravity.

Maple Syrup is syrup made by the evaporation of maple sap, or by the solution of maple concrete in water ; and contains not more than thirty-five (35) per cent of water. The ash and *Lead Subacetate Number* expressed as percentages on the syrup when multiplied by  $\frac{100}{63}$  must be equal to the corresponding standard for maple sugar.

NOTE—In determining the *Lead Subacetate Number* of maple syrup, the solution of five (5) grammes of syrup in water must be boiled to expel carbon dioxide, which might be present as a fermentation product, and the boiled and cooled liquid made up to 20cc. The weight of the lead precipitate found may be multiplied by 30.77 to give the '*Lead Subacetate Number*,' which must be not less than 2.2.

The standards above defined take effect on the 25th day of April prox.

W. J. GERALD,  
*Deputy Minister.*

## APPENDIX A.

## BULLETIN No. 206—FLOUR, NITRITE REACTING NITROGEN IN

OTTAWA, April 27, 1910.

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

SIR,—I beg to hand you herewith, a report upon the examination of two hundred and twenty-three (223) samples of flour, with special reference to the determination of Nitrite reacting Nitrogen. These samples may be taken as fairly representing flour, as sold throughout Canada, since they have been obtained in all the inspectoral districts of the Dominion.

The question of the artificial whitening (bleaching) of flour by means of nitrous oxide, has caused much discussion, both among millers and by the consuming public, during the last year. Especially is this true of the United States, where the matter was brought to a focus by a decision given by Judge Pollock in the Supreme Court of North Dakota, in January, 1909. Expert testimony was heard on both sides of the case, which arose out of a question raised by the Russell-Miller Milling Co. *et al.*, as to whether Food Commissioner Ladd was legally justified in condemning the sale of flour bleached by nitrous oxide, as being contrary to the North Dakota Food Law.

The court upheld the validity of Commissioner Ladd's action, and thus made the sale of bleached flour illegal in North Dakota. But, as regards the harmfulness to health of the bleached flour, Judge Pollock expressed himself, as follows :—'After considering all the testimony, I am of the clear opinion that upon the general claim of having introduced no deleterious compound or substance into the flour, which remains therein after baking, the plaintiffs have been successful, and that the decided weight of the testimony is in their favour in this respect.' It would thus appear that, while the judgment is a technical victory for the food commissioner, it is a victory, in a more real sense, for the millers.



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More recently (March, 1910), the State of Pennsylvania indicted a grocer for selling corn starch in which the State Chemist found a trace of nitrites (about 2·8 parts, per million). Experts were heard on both sides, the defendants (National Starch Co.) claiming that no nitrites had been used in the manufacture of the article, and disclaiming all responsibility for the presence of nitrites found by the analyst. Among other technical evidence adduced by the defendants, it was shown that starches made by the alkali process, are capable of taking up oxides of nitrogen from the air. Also, that flour, although having an acid reaction, contains, in its colouring matter a base similar to the alkali in starch, and that this colouring matter combines with great avidity with the oxides of nitrogen in air to form a nitrite.

The judge said he had become convinced 'that the case involved some scientific truths, not before known; and that while the State had brought the case in all good faith, he was convinced that the defendant ought not to be found guilty.'

It will be seen from the foregoing, that the question of bleached flour is still unsettled, considered from the standpoint of the health of the consumer. Another difficulty is that of the analyst whose duty it is to discover whether or not a given sample has been bleached.

The question of the validity of legislation in the matter does not concern us, as Canada has no legislation with regard to bleached flour. It is quite certainly within the scope of the Adulteration Act, to pronounce upon the question of what shall, and what shall not, be sold as flour in Canada. Whether or not, it may be considered desirable to prohibit the manufacture and sale of flour bleached by oxides of nitrogen, is, for the present, in abeyance. The immediate object of the present investigation is to ascertain whether our analytical methods and our knowledge of the subject, are such as to enable us to pronounce, with certainty, that a given sample of flour has been so bleached. Until we can accomplish this, any legislation in the matter would, of course, remain a dead letter. But before undertaking a study of the results now placed in your hands, it may be permitted to consider briefly some aspects of the fact of bleaching, itself.

It is well known that a new flour becomes lighter in colour by exposure to light and air. It is believed that the colouring matter is chiefly present in the minute traces of oil which remain in flour, even when most carefully made, by modern machinery. This is apparent from the fact that a good solvent for oils, (gasoline) is capable of removing from flour at the same time the oil and the colouring matters. The whitening of a flour by exposure to light and air may be spoken of as natural bleaching, and this is one of the results of the so-called 'ageing' of flour. Ordinary air contains minute traces of oxides of nitrogen, and sometimes faint traces of an active form of oxygen, known as ozone. It is found that any means by which we can increase the amount of oxides of nitrogen and of ozone, in the air, increases at the same time, the effectiveness of such air, as a bleacher of flour.

No objection has ever been taken (so far as I am aware) to the addition of ozone to air; but the oxides of nitrogen, being much more easily available, and more vigorous in action, are usually employed, either with or without ozone. These oxides are very poisonous, and the main argument against their use is based upon the assumption that sufficiently large amounts of them in excess of the quantity actually employed in destroying the colour, remain in the flour, to give it a positively harmful and dangerous character. This is denied by millers, who further claim that the heat of the oven would effectively drive off any excess of oxides of nitrogen, did such excess exist in the flour. The arguments for and against the wholesomeness of nitrite bleached flour, must, for the present be taken as leaving the matter an open question.

As to the occurrence of nitrite reacting nitrogen in flour, it is undeniable that flour may take up oxides of nitrogen from the air, which at all times contains traces of these oxides, such traces being more distinctly marked after electrical discharges, or disturbances. A sample of flour which gave no reaction for nitrites, was exposed for 10 days (March 12) to the outer air, on the roof of this building. At the end of that time it was found to contain 1·6 parts per million. On further exposure for a total period 25 days, it showed 3·0 parts per million. An exposure of 4 days in the atmosphere of the laboratory, which is of necessity more highly charged with oxides of nitrogen than the outer air, resulted in the taking up of 5·2 parts per million. Flour which has been

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bleached by oxides of nitrogen, especially if it has been treated in excess, will naturally give off the excess of these gases, and may thus contaminate flour stored in its vicinity. A sample which contained 6.3 parts per million was inclosed under a bell-jar with another sample which gave no nitrite reaction. After 12 days the first sample was found to contain 5.7 parts per million, while the second sample, which had contained no nitrites, now showed 0.5 parts per million. Another sample showing 5 parts nitrite per million, was similarly inclosed with a nitrite free sample, for 15 days; at the end of which time, the second sample was found to have taken up only a trace of nitrite nitrogen, while the first sample showed only 1 part per million. This disappearance of nitrite nitrogen was probably due to oxidation to the nitric condition. In all the cases cited, the flour was exposed in thin layers, and was thus given every chance to take up any oxides of nitrogen in the air about it. Normal storage of flour in bags or barrels furnishes quite different conditions, and it is reasonable to suppose that the absorption of oxides of nitrogen here quoted, is very much greater than would obtain under commercial conditions.

*Alway and Gortner* (Jour. Am. Chem. Soc. 1907, 1503) find the average amount of nitrites in bleached flour to be 6.3 per million. Is it possible to fix a limit of nitrite above which it shall be safe to declare 'this flour has been bleached.' Out of the 223 samples now reported, 148 give no reaction for nitrites.

Of 75 samples which show measurable amounts of nitrites, 25 contain not more than 1 part per million, leaving 50 samples, or 22 per cent of the total collection, to contain above 1 per million of nitrites.

In the following tabulation of results, it must be understood that the statements of fact given are intended as a basis for the discovery and enunciation of a principle, and are not to be taken as ascertained evidence for or against bleaching, or as affirming or negating the fact of bleaching in a particular case. It is amply evident that the bleaching of flour by oxides of nitrogen has resulted from a popular demand for white flour, and a conviction on the part of the millers that they were meeting this demand in a perfectly harmless manner. Whether or not any danger to public health results from bleaching flour by oxides of nitrogen, is a most important question, and one upon which judgment is reserved. Of this we may feel perfectly sure that should a decision be reached, upon scientific grounds, and so clear as to justify the prohibition of oxides of nitrogen as bleaching agents, the larger millers will be found prompt to recognize such decision and to live up to it.

In the meantime consumers who object to taking any risks, and who want to know that no fundamental change in the character of a food stuff so important as flour, can occur without their being made aware of it, have a right to be informed whether a flour offered them has been treated with oxides of nitrogen, or not. It is therefore desirable that, if possible, limiting standards should be set, as follows:—(1) A definite content of nitrite reacting nitrogen in flour, exceeding which we may feel justified in saying 'this flour has been bleached by oxides of nitrogen;' (2) a maximum content of nitrite reacting nitrogen beyond which we may conclude 'this flour is probably dangerous to health.'

I believe that the data furnished herewith will assist the advisory board to reach conclusions on these points, as well as to instruct the public regarding the matter of bleached flour; and I beg to recommend the publication of this report as Bulletin No. 206.

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

A. MCGILL,  
*Chief Analyst.*

NOTE.—In the above, and throughout this Bulletin, nitrite reacting nitrogen is stated in terms of sodium nitrite. This is in conformity with the usage of writers on the subject, and in order to facilitate comparison.

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No. of Sample.	Name of Manufacturer.	Name of Brand.	Nitrite reacting Nitrogen as $\text{NaNO}_2$ .
39637	The Quaker Oats Co.	Quaker.	0.75
42918	" "	Quaker.	none.
44219	" "	"	none.
39653	Ogilvie Milling Co.	Royal Household.	none.
40429	" "	Royal Household.	0.5
42920	" "	Royal Household.	none.
43420	" "	Royal Household.	none.
35650	" "	Royal Household.	none.
35655	" "	Royal Household.	none.
35647	" "	Royal Household.	none.
35644	" "	Royal Household.	none.
37816	" "	Royal Household.	none.
41634	" "	Royal Household.	none.
1267	" "	Glenora	none.
40438	" "	Glenora	1.8
41447	" "	Glenora	trace.
43421	" "	Glenora	none.
1264	" "	Baker's Special	none.
37815	" "	Economy.	none.
44213	" "	"	0.7
1262	Western Canada Flour Mills Co.	Purity.	trace.
42914	" "	Purity.	3.2
42922	" "	Purity.	0.5
41448	" "	Purity.	trace.
44727	" "	Purity.	1.3
37827	" "	Purity.	3.7
41639	" "	Purity.	0.9
43418	" "	Purity.	none.
40436	" "	3 Stars.	none.
43419	" "	3 Stars.	none.
1266	" "	Pastry.	none.
43423	" "	Snow Drift.	none.
43424	" "	Lily.	none.
44208	" "	"	1.0
44211	" "	"	1.0
41901	McLeod Milling Co., Stratford, Ont.	McLeod's Special.	trace.
41910	" "	McLeod's Special.	2.5
41904	T. H. Taylor Milling Co., Chatham, Ont.	Beaver.	1.1
41907	" "	Beaver.	none.
38634	" "	Beaver.	none.
41908	" "	Beaver.	none.
41905	Lake of the Woods Milling Co.	Five Roses.	none.
41915	" "	Five Roses.	none.
38645	" "	Five Roses.	none.
39648	" "	Five Roses.	none.
36509	" "	Five Roses.	none.
1273	" "	Five Roses.	none.
42921	" "	Five Roses.	none.
43427	" "	Five Roses.	none.
35643	" "	Five Roses.	none.
35645	" "	Five Roses.	0.5
3.648	" "	Five Roses.	0.5
35656	" "	Five Roses.	none.
37813	" "	Five Roses.	none.
41635	" "	Five Roses.	none.
40427	" "	Five Roses.	none.
40437	" "	Kewatin.	none.
43428	" "	Harvest Queen.	none.
44206	" "	"	none.
44212	" "	"	none.
44214	" "	"	none.
44217	" "	"	none.
44734	" "	"	none.
41906	Campbell Milling Co., Chatham.	Halifax.	1.7
41914	" " Toronto.	Queen City.	none.
39650	" " Toronto West.	Cream of the West.	trace.
39658	The John Campbell Co., Ltd., St. Thomas.	Sunbeam.	2.3
41461	" "	Sunbeam.	4.0
39685	" "	White Rose.	8.8
38644	" "	Campbell's Blend.	1.0



No. of Sample.	Name of Manufacturer.	Name of Brand.	Nitrite reacting Nitrogen as NaNO <sub>2</sub> .
42541	Campbell's Milling Co., St. Thomas	Campbell's Blend.....	trace.
44717	Goldie Milling Co., Guelph	Snow Drift.. . . .	9'0
41909	" " " " " " " "	Goldies Star .. . .	5'0
38638	" " " " " " " "	Goldies Star .. . .	3'4
39647	" " " " " " " "	Goldies Star .. . .	5'3
38644	" " " " " " " "	Our Best .. . . .	6'5
39652	" " " " " " " "	Gold Seal .. . . .	4'5
44746	" " " " " " " "	" " " " " " " "	2'0
41911	Tillson Milling Co., Tillsonburg.	Tillson's Delight ..	none.
41913	" " " " " " " "	Rainbow .. . . .	none.
38632	" " " " " " " "	Tillson's Pride .. .	none.
38636	" " " " " " " "	Royal Stewart .. .	trace.
38631	Canadian Flour Mills, Chatham.	Five Diamonds .. .	1'0
38635	" " " " " " " "	Kent Mills .. . . .	7'2
38637	Wolverton Milling Co. ....	Estey .. . . .	4'0
38640	" " " " " " " "	Holmans Leader .. .	none.
39659	" " " " " " " "	Keystone .. . . .	2'8
39645	Plattsville Milling Co. ....	Strathcona .. . .	none.
39655	The Flavell Milling Co .. .	Crusader .. . . .	2'5
39651	The Meduxnakeag Roller Mills.	Priunrose .. . . .	none.
42513	Watford Milling Co. ....	" " " " " " " "	trace.
42526	Hayne Milling Co. ....	Haynes best 3 points.	none.
42531	Eureka Roller Mills .. . .	Eldorado .. . . .	3'1
42524	" " " " " " " "	Eldorado .. . . .	5'2
43417	Morden Roller Mills .. . .	Early Down .. . .	none.
43430	Leitch Bros. Milling Co. ....	Sovereign ? .. . .	0'5
44207	" " " " " " " "	" " " " " " " "	2'0
35646	Medicine Hat Milling Co. ....	Prairie Pride .. . .	none.
37818	" " " " " " " "	Prairie Pride .. . .	none.
41640	" " " " " " " "	Prairie Pride .. . .	none.
35649	Taylor Milling Co .. . . .	Pride of Alberta .. .	none.
35651	" " " " " " " "	Pride of Alberta .. .	2'3
35652	Calgary Milling Co .. . . .	Seal of Alberta .. .	5'3
35653	" " " " " " " "	Seal of Alberta .. .	1'0
41647	" " " " " " " "	Seal of Alberta .. .	2'6
41642	" " " " " " " "	Hungarian Patent ..	0'5
35654	Western Milling Co .. . . .	Rising Sun .. . . .	none.
37817	Saskatchewan Flour Mills ..	Robin Hood .. . . .	1'2
41641	" " " " " " " "	Robin Hood .. . . .	1'4
44215	" " " " " " " "	Robin Hood .. . . .	1'2
37819	Allison Milling & Elevator Co.	Our Best .. . . .	1'0
41646	" " " " " " " "	Our Best .. . . .	3'0
37821	Vancouver Milling Co. ....	Wild Rose .. . . .	none.
41643	" " " " " " " "	Wild Rose .. . . .	none.
41644	" " " " " " " "	Royal Standard .. .	none.
1263	Renfrew Roller Mills Co. ....	White Star .. . . .	1'2
1270	" " " " " " " "	White Star .. . . .	4'5
1271	Norval Roller Mills .. . . .	Pastry .. . . .	none.
40428	Wm. Scott & Co .. . . .	White Clover .. . .	none.
42924	" " " " " " " "	White Clover .. . .	trace.
42925	" " " " " " " "	Polar Star .. . . .	none.
42913	Maple Leaf Flour Mills Co. ....	Nelson .. . . .	none.
42919	" " " " " " " "	Quality .. . . .	none.
43425	" " " " " " " "	Hard Wheat .. . .	none.
43426	" " " " " " " "	Castle .. . . .	none.
42915	Campbell & McNabb .. . . .	Rosebud .. . . .	none.
42917	Hunt Bros .. . . .	Cabot .. . . .	6'3
44739	" " " " " " " "	" " " " " " " "	2'0
42516	" " " " " " " "	" " " " " " " "	none.
42507	" " " " " " " "	Diamond .. . . .	2'0
42923	Dowd Milling Co. ....	Hungarian Patent ..	none.
44210	Seaforth Milling Co. ....	" " " " " " " "	trace.
44732	" " " " " " " "	Wane Crest .. . . .	none.
44218	Peterboro Cereal Co .. . . .	" " " " " " " "	trace.
44220	Central Mil ing Co .. . . .	" " " " " " " "	0'5
41455	Caledonia Milling Co. ....	Bridal Veil .. . . .	none.
44738	Goderich Milling Co. ....	" " " " " " " "	2'0
37822	Columbia Flour Mills .. . .	Premium .. . . .	0'5
37826	" " " " " " " "	Drifted Snow .. . .	none.

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No. of Sample.	Name of Manufacturer.	Name of Brand.	Nitrite reacting Nitrogen as $\text{NaNO}_2$
41636	Columbia Flour Mills.....	Drifted Snow.....	none.
41637	" ".....	Three Star.....	none.
41645	" ".....	Moffets Best.....	none.
37824	Hammond Milling Co.....	Queen Ann.....	1·2
37825	Easterbrook Milling Co.....	Imperial.....	none.
41638	The Portland Flouring Mills Co.....	Snowflake.....	none.
1276	Sutcliffe Milling Co.....	Bread.....	none.
40439	McDonald & Robb.....	Our Best.....	none.
40440	" ".....	R. H. Patent.....	none.
1275	" ".....	Pastry.....	none.
42911	Pembroke Milling Co.....	Manitoba Blend.....	none.
42912	Jno. P. Millar & Sons.....	Bakers Patent.....	none.
42916	G. D. Atkinson.....	Atkinson's Special Hungarian.....	none.
44209	Kingston Milling Co.....	".....	none.
41452	The Wood Milling Co.....	Gold Medal.....	none.
41453	The Hamilton Milling Co.....	Peacemaker.....	none.
41454	The Ker Milling Co.....	Thistledown.....	none.
41457	Milton Flour Mills.....	".....	none.
41458	J. Black & Son.....	Herald.....	none.
41459	The Helley Shaw Milling Co.....	Selkirk.....	none.
41460	Monroe & Roantree.....	Perfect.....	none.
44722	Irvin Masters.....	King.....	trace.
42537	King Milling Co.....	Bonnie Doon.....	none.
43416	W. J. Lindsay & Co.....	Lindsay's Patent.....	none.
43422	Geo. McCulloch & Sons.....	Ladies Choice.....	none.
43429	Nichols Hubbard & Brine.....	Sweet Home.....	0·5
37823	Hudson Bay Co.....	Hudson Bay Hungarian.....	none.
41648	Central Mills.....	Whole Wheat.....	none.
41902	B. A. Thomson.....	Favourite.....	1·9
41903	Coffard & Sons.....	Lady of Snow.....	1·4
44743	S. Carter & Sons.....	".....	none.
41912	C. Carter Co., Ltd.....	Carters Best.....	none.
38643	" ".....	Sinclair & Stewarts Best.....	none.
38633	Shirk & Snider.....	Buda.....	1·2
38639	" ".....	Rear Admiral.....	none.
38642	G. W. Robinson.....	Red Rose.....	none.
39646	Jas Cullen.....	Silver King.....	none.
39654	Partlo-Miller.....	Gold Leaf.....	1·8
39656	S. J. Cherry.....	Gold Coin.....	none.
1265	Stewart, Denault Co.....	White Rose.....	none.
1268	Carrigan & Fils.....	Pastry.....	none.
1272	The Alex. Brown Milling & E. Co.....	White Rose.....	none.
1274	Manitoba Self Raising Flour Co.....	Prepared.....	0·5
49431	Snyder Milling Co.....	Ocean.....	none.
40432	" ".....	Ocean.....	none.
44216	A. Pratt.....	".....	none.
41449	N. V. Denne & Co.....	White Crown.....	none.
41450	W. S. Summerfeldt & Sons.....	Regina.....	none.
41451	G. S. Baldwin.....	Hungarian.....	none.

## SESSIONAL PAPER No. 14

No. of Sample.	Name of Manufacturer or Furnisher.	Name of Brand.	Nitrite reacting Nitrogen as $\text{NaNO}_2$
41456	R. W. Smith .....	Lily White.....	none.
44725	Faber Bros.....	Lily White.....	trace.
36512	" .....	Perth Standard .....	none.
44735	Stewart Bros.....	" .....	none.
44740	" .....	" .....	2.0
44742	Ratz & Co.....	" .....	none.
44747	Cargel & Son.....	" .....	none.
44750	J. & V. Fair.....	" .....	trace.
42506	H. Hamlyn .....	Hearty Delight.....	none.
42512	J. Hawkins .....	Hawkins Daisy.....	none.
42534	W. W. Paling.....	" .....	none.
42535	J. Martyn.....	Our Best.....	2.7
42540	Jas. Cullen .....	King Edward.....	0.5
35642	Campbell & Otherwell .....	White Rose.....	4.2
36508	J. B. Renaud & Cie.....	Royal .....	2.2
36521	" .....	" .....	none.
36518	" .....	" .....	none.
36510	P. G. Busière.....	Patent.....	none.
36511	" .....	National .....	0.5
36516	" .....	" .....	none.
36513	Désiré Drolet .....	Frontenac.....	5.0
36519	" .....	" .....	0.8
36514	Drolet & Dugal.....	Esty .....	none.
36515	Lennon & Co .....	Shamrock.....	0.5
36517	W. Carrière & Fils.....	Royal Alexandra.....	1.7
1269	A. Spénard.....	Pastry.....	

No. of Sample.	Name of Vendor.	Name of Brand.	Nitrite reacting Nitrogen as $\text{NaNO}_2$
36520	G. Moreau.....	" .....	2.0
36522	A. Pouliot.....	" .....	3.2
40430	F. Riley .....	" " " .....	0.5
40433	W. H. Lanning .....	Best Pastry.....	trace.
40434	O. Marchand.....	Champion .....	none.
40435	J. G. Leonard.....	Hurona.....	trace.
40441	J. B. Lefebvre.....	Canadian Bakers.....	none.
37814	E. A. Edgett Co.....	" .....	0.5
37820	A. & C. Grocery .....	" .....	

2 GEORGE V., A. 1912

## BULLETIN No. 206—FLOUR—(NITRITE REACTING NITROGEN IN).

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.
				Quantity.	Cents.			Nitrite re-Calculated acting Ni-as Sodium nitrogen.	Nitrite. Parts per million.	
DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.										
1910.										
Mar.	7 Flour. ....	41901	Larder Hubley & Co., Halifax, N.S.	2 lbs.	10	McLeod Milling Co., Stratford, Ont.	McLeod's Special.....	Trace....	Trace....	41901
"	" .....	41902	Dillon Bros., Halifax, N.S.	2 "	8	B. A. Thompson, Lyden, Ont.	Favourite.....	0.38	1.9	41902
"	" .....	41903	C. S. Davis, Halifax, N.S.	2 "	7	Coffard & Sons, Thamesford, Ont	Lady of Snow.....	0.28	1.4	41903
"	" .....	41904	W. E. Crowe & Co., Halifax, N.S.	2 "	8	T. H. Taylor Milling Co., Chatham, Ont.	Beaver.....	0.22	1.1	41904
"	" .....	41905	Share & Campbell, Halifax, N.S.	2 "	10	Leake of the Woods Milling Co., Toronto, Ont.	Five Roses.....	None.....	None.....	41905
"	" .....	41906	J. L. Archibald, Halifax, N.S.	2 "	8	Campbell Milling Co., Chatham, Ont.	Halifax.....	0.34	1.7	41906
"	" .....	41907	W. J. Hopgood & Son, Halifax, N.S.	2 "	8	T. H. Taylor Milling Co., Chatham, Ont.	Beaver.....	None.....	None.....	41907
"	" .....	41908	J. D. Stewart, Halifax, N.S.	2 "	8	"	"	"	"	41908
"	" .....	41909	R. B. Adams & Co., Halifax, N.S.	2 "	8	Goldie Milling Co., Ayr, Ont.	Goldie's Star.....	1.0	5.0	41909
"	" .....	41910	S. T. Craig, Halifax, N.S.	2 "	8	McLeod Milling Co., Stratford, Ont.	McLeod's Special.....	0.5	2.5	41910
"	" .....	41911	H. C. Barnaby & Sons, Bridge-water, N.S.	2 "	8	Tillson Milling Co., Ltd., Tillsonburg, Ont.	Tillson's Delight.....	None.....	None.....	41911
"	" .....	41912	Bent & Jodfrey, Bridgewater, N.S.	2 "	8	C. Carter Co., Ltd., St. Marys, Ont.	Carters Best.....	"	"	41912
"	" .....	41913	Wm. Law & Co., Yarmouth, N.S.	2 "	8	Tillson Milling Co., Ltd., Tillsonburg, Ont.	Rainbow.....	"	"	41913
"	" .....	41914	Cain Bros., Yarmouth, N.S.	2 "	8	Campbell Milling Co., Ltd., Toronto, Ont.	Queen City.....	"	"	41914
"	" .....	41915	O. Lyons, Kentville, N.S.	2 "	7	Leake of the Woods Milling Co., Toronto, Ont.	Five Roses.....	"	"	41915

## SESSIONAL PAPER No. 14

## DISTRICT OF PRINCE EDWARD ISLAND—T. MOORE, INSPECTOR.

Mar.	5 Flour.....	38631	Geo. Rackham, Charlottetown.	2 lbs..	7	Canadian Flour Mills, Chatham, Ont.	Five Diamonds.....	0.2	1 0	38631
"	"	38632	W. W. Walker, Charlottetown.	2 " "	7	Tilson Co., Tilsonburg, Ont....	Tilson's Pride .....	None.....	None.....	38632
"	"	38633	T. F. Mahar, Charlottetown..	2 " "	7	Shirk & Snider, Bridgeport, Ont.	Buda.....	0.24	1.2	38633
"	"	38634	Joseph Crabbe, Charlottetown..	2 " "	7	T. H. Taylor, Chatham, Ont....	Beaver.....	None.....	None.....	38634
"	"	38635	T. E. Hagon, Charlottetown.....	2 " "	7	Canadian Flour Mills, Chatham, Ont.	Kent Mills.....	1.44	7.2	38635
"	"	38636	Beer & Goff, Charlottetown.....	2 " "	7	Tilson Co., Tilsonburg, Ont. . .	Royal Stewart.....	Trace.....	Trace.....	38636
"	"	38637	Stewart & Son, Charlottetown..	2 " "	7	Wolverton Milling Co., Wolverton, Ont.	Estey .....	0.8	4.0	38637
"	"	38638	D. McKenzie & Co., Kensington	2 " "	7	Goldie Milling Co., Ayr, Ont....	Star.....	0.68	3.4	38638
"	"	38639	James Kennedy, Kensington.....	2 " "	7	Shirk & Snider, Bridgeport, Ont.	Rear Admiral .....	None.....	None.....	38639
"	"	38640	R. T. Holman Ltd., Summerside	2 " "	7	Wolverton Milling Co., Wolverton, Ont.	Holman's Leader.....	"	"	38640
"	"	38641	Brace & McKay, Summerside..	2 " "	7	Goldie Milling Co., Ayr, Ont. . .	Our Best.....	1.3	6.5	38641
"	"	38642	F. W. Strong, Summerside.....	2 " "	7	G. W. Robinson, Summerside....	Red Rose.....	None.....	None.....	38642
"	"	38643	Sinclair & Stewart, Summerside.	2 " "	7	George Carter & Co., St. Marys, Ont.	Sinclair & Stewart's Best.	"	"	38643
"	"	38644	A. L. McDonald, Souris.....	2 " "	7	John Campbell Co., St. Thomas, Ont.	Campbells Blend .....	0.2	1.0	38644
"	"	38645	Mathew & McLean, Souris....	2 " "	7	Lake of the Woods Milling Co., Keewatin, Ont.	Five Roses.....	None.....	None.....	38645

## DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.

Mar.	3 Flour.....	38645	Two Barkers Limited, St. John, N.B.	2 lbs..	6	Plattsville, Milling Co., Ontario.	Strathcona.....	None.....	None.....	38645
"	5	38646	J. Fred Shaw, St. John, N.B....	2 " "	10	James Cullen, Woodstock, Ont..	Silver King.....	"	"	38646
"	9	38647	W. A. Porter, St. John, N.B....	2 " "	10	D. Goldie, Ontario.....	Goldie's Star .....	1.06	5.3	38647
"	10	38648	H. S. & W. H. Frances, St. John, N.B.	2 " "	10	Lake of the Woods Milling Co., Keewatin.	Five Roses.....	None.....	None.....	38648
"	15	38650	John McKnight, Fredericton, N.B.	2 " "	8	The Campbell Milling Co., West Toronto.	Cream of the West .....	Trace.....	Trace.....	38650
"	16	38651	Medunakeag Roller Mills, Woodstock, N.B.	2 " "	10	Vendor.....	Primrose.....	None.....	None.....	38651



BULLETIN No. 206—FLOUR—(NITRITE REACTING NITROGEN IN).

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.
			Quantity.	Cents.	Nitrite reacting as Sodium Nitrogen. Parts per million.	Calculated as Sodium Nitrite. Parts per million.					
DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR—Concluded.											
1910.											
Mar. 17	Flour	39652	B. Beveridge, Andover, N.B.	2 lbs.	10		Goldie Milling Co., Ltd.	Gold Seal.	0.9	4.5	39652
" 18	"	39653	J. W. McPhail, Perth, N.B.	2 "	10		Ogilvie Milling Co., Ltd., Canada	Royal Household.	None.	None.	39653
" 18	"	39654	Mrs. L. Mallory, Perth, N.B.	2 "	10		Partlo Miller, Ingersoll.	Gold Leaf.	0.36	1.8	39654
Apr. 5	"	39655	The Sussex Mercantile Co., Ltd., Sussex, N.B.	2 "	10		The Flavelle Milling Co., Lindsay, Ont.	Crusader.	0.5	2.5	39655
" 7	"	39656	D. & J. Ritchie & Co., Newcastle, N.B.	2 "	10		S. J. Cherry, Ontario	Gold Coin.	None.	None.	39656
" 7	"	39657	M. Bannon, Newcastle, N.B.	2 "	10		The Quaker Oats Co., Peterboro.	Quaker.	0.15	0.75	39657
" 8	"	39658	The Nipisquit Lumber Co., Bathurst, N.B.	2 "			The John Campbell Co., Ltd., St. Thomas, Ont.	Sunbeam.	0.46	2.3	39658
" 8	"	39659	Jos. J. Meahan, Bathurst, N.B.	2 "	10		Wolverton Milling Co., Wolverton, Ont.	Keystone.	0.56	2.8	39659
" 8	"	39685	W. J. Kent, Bathurst, N.B.	2 "	7		The John Campbell Co., Ltd., St. Thomas, Ont.	White Rose.	1.76	8.8	39685

DISTRICT OF QUEBEC—E. BELAND, INSPECTOR.

Mar. 2	Flour	36508	T. E. Morand, 406 Rue Valier, Quebec.	2 lbs.	7		T. B. Reneaud & Co., Quebec.	Royal.	0.84	4.2	36508
" 2	"	36509	Alfred Boily, 36 Cote D'Abraham, Quebec.	2 "	8		P. G. Busiere, Quebec	Five Roses.	None.	None.	36509
" 2	"	36510	F. A. Minguy, 139 Rue Richeheu, Quebec.	2 "	7		"	Patent.	"	"	36510
" 2	"	36511	T. Voyer, 226 Rue Richelieu, Quebec.	2 "	7		"	National.	"	"	36511



## SESSIONAL PAPER No. 14

"	2	36512	Jos. Boiteau, 27 Rue Sutherland	2 "	7	T. B. Rencaud & Co., Quebec.	Lily White.	Trace.....	36512
"	2	36513	V. Lacombe, 17 Rue St. Clair,	2 "	8	Desire Drolet, Quebec.	Frontenac	None.....	36513
"	2	36514	Thon. Macklosky, 21 Rue St. Michel,	2 "	10	Drolet & Dougal, Quebec.	Esty.	1 0	36514
"	2	36515	N. Binet, 1 Rue des Jardines,	2 "	8	Lenon & Co., Quebec.	Shamrock.	0 16	36515
"	2	36516	O. Lacroix, 19 Rue St. Joseph,	2 "	8	P. G. Busiere, Quebec.		0 1	36516
"	4	36517	Hamel & Bedard, 728 Rue St. Clair,	2 "	7	W. Carriere & fils, Quebec.	Royal Alexandra.	None.....	36517
"	4	36518	N. Lecomte, 74 Rue Sauva-	2 "	7	T. B. Rencaud & Cie, Quebec.		"	36518
"	7	36519	Madm V. A. Baril, 143 3m Ave.,	2 "	8	Desire & Drolet, Quebec.		"	36519
"	7	36520	G. Moreau, 4em Ave.,	2 "	7	Unknown.		0 4	36520
"	7	36521	G. H. St. Cyr, 95 Rue du Pont,	2 "	10	T. B. Rencaud & Cie, Quebec.		0 44	36521
"	7	36522	A. Pothier, 45 Rue Laliberte,	2 "	8	Unknown.		0 64	36522

## DISTRICT OF ST. HYACINTHE—J. C. ROULEAU INSPECTOR.

Mar.	3	1262	Percy & Reade, Bedford.	2 lbs..	7	Western Canada Flour Mills, Montreal.	Purity.....	0 1	1262
"	3	1263	Arsene Duchesneau, Stanbridge	2 "	6	The Renfrew Roller Mills Co., Renfrew.	White Star.	0 24	1263
"	3	1264	J. H. Brault, St. Armand	3 1/2 "	12	Ogilvie Milling Co., Montreal.	Bakers Special.	None.....	1264
"	4	1265	Ed. Lalberge, Iberville.	2 "	6	Stewart-Denault Co., Ltd., St. Jean.	White Rose.	"	1265
"	7	1266	J. O. Verrouneau, Drummond	2 "	6	Western Flour Mills Co., Montreal.	Pastry.	"	1266
"	7	1267	O. Marcotte, Davelnyville.	2 "	7	Ogilvie Milling Co., Montreal.	Glenora.	"	1267
"	8	1268	P. E. Cyrenne, Beauceau.	2 "	6	Carrignan & fils, Trois Rivières.	Pastry.	"	1268
"	9	1269	Arthur Blanchet, St. Angele de	2 "	6	A. Spenard, Trois Rivières.	Pastry.	0 34	1269
"	10	1270	Germ & Boulay, Coaticook.	2 "	7	The Renfrew Roller Mills Co., Renfrew.	White Star.	0 9	1270
"	15	1271	R. W. Bradford, Granby.	2 "	7	Norval Roller Mills, Norval, Ont.	Pastry.	None.....	1271
"	15	1272	N. O. Rockwell, Waterloo.	2 "	7	The Alex. Brown Milling & E. Co., Toronto.	White Rose.	"	1272

BULLETIN No. 206—FLOUR—(NITRITE REACTING NITROGEN IN).

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.
				Quantity.	Cents.			Nitrite re-Calculated acting Ni- as Sodium trogen.	Nitrite, Parts per million.	
DISTRICT OF ST. HYACINTHE—J. C. ROULEAU, INSPECTOR—Concluded.										
1910.										
Mar. 15	Flour.....	1273	A. M. Hunter, Foster. ....	2 lbs.	7	The Lake of the Woods Milling Co., Montreal.	Five Roses.....	None.....	None.....	1273
" 16	" .....	1274	E. Paradis, Magog.....	pkge.	18	Manitoba Self-raising Flour Co., Montreal.	Prepared.....	0.1	0.5	1274
" 16	" .....	1275	Hulburd & Bell, Cowansville.....	2 lbs.	7	McDonald & Robb, Valleyfield.	Pastry.....	None.....	None.....	1275
" 17	" .....	1276	Stewart, Denault & Co., Ltd., St. Jean.	2 "	7	Sutcliffe Milling Co., Moosomin, Sask.	Bread .....	" .....	" .....	1276

DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.

Mar.	9	Flour.	40427	W. Mayer, St. Jerome, P.Q.	2 lbs.	7		Five Roses.	None.	None.	40427
"	9	"	40428	C. E. Laflamme, St. Jerome, P.Q.	2 "	6	Wm. Scott & Co., Ottawa	White Clover.	"	"	40428
"	10	"	40429	A. Bastian, 686 Laurier Ave., Montreal.	2 "	8	Ogilvie Milling Co., Ltd.	Royal Household.	0.1	0.5	40429
"	10	"	40430	F. Riley, 738 Laurier Ave., Montreal.	2 "	8	"A."	"	0.1	0.5	40430
"	10	"	40431	A. E. Senat, 147 Villeneuve, Montreal.	2 "	8	Snyder Milling Co.	Ocean	None.	None.	40431
"	10	"	40432	J. F. Legault, 148 Villeneuve, Montreal.	2 "	9	"	"	"	"	40432
"	10	"	40433	W. H. Lanning, 1051 St. Louis, Outremont.	2 "	10	Best Pastry	Trace.	Trace.	Trace.	40433
"	11	"	40434	Omer Marchand, Beauharnois, P.Q.	2 "	7	Champion	None.	None.	None.	40434
"	11	"	40435	J. G. Leonard, Beauharnois, P.Q.	2 "	7	Hurona	Trace.	Trace.	Trace.	40435

## SESSIONAL PAPER No. 14

" 15	"	40436	F. O. Lanarche, Berthierville, P.Q.	2 "	6	Western Canada Flour Mills Co., Ltd.	3 Star	None	None	40436
" 15	"	40437	" " " "	2 "	6	Lake of the Woods Milling Co., Ltd.	Kewatin	"	"	40437
" 15	"	40438	" " " "	2 "	6	Ogilvie Flour Mills Co., Ltd.	Glenora	0.36	1.8	40438
" 22	"	40439	McDonald & Robb, Valleyfield, P.Q.	2 "	6	Vendors	Our Best	None	None	40439
" 22	"	40440	" " " "	2 "	6	"	Red Horse Patent	"	"	40440
" 24	"	40441	J. B. Lefebvre, St. Theres de Blainville, P.Q.	2 "	7	"	Canadian Bakers	"	"	40441

## DISTRICT OF OTTAWA—J. A. RICKY, INSPECTOR.

Mar.	1	Flour	42911	Pembroke Milling Co., Pembroke	2 lbs.	Vendors	Manitoba blend	None	None	42911
"	1	"	42912	Jno. P. Millar & Sons, Pembroke	2 "	"	Bakers Patent	"	"	42912
"	2	"	42913	Cameron Milling Co., Hawkesbury	2 "	Maple Leaf Flour Mills Co., Ltd., Kenora	Nelson	"	"	42913
"	2	"	42914	D. Seward, Hawkesbury	2 "	6	Western Canada Flour Mills Co., Ltd., Goderich	Purity	0.64	3.2
"	2	"	42915	" " "	2 "	6	Campbell & McNabb, Douglas	Rosebud	None	None
"	4	"	42916	G. D. Atkinson, Cornwall	2 "	6	Vendor	Atkinsons Special Hungarian	"	42916
"	4	"	42917	Tilton & Graham, Cornwall	2 "	6	Hunt Bros., London, Ont.	Calot	1.26	6.3
"	4	"	42918	Black & Borthwick, Cornwall	2 "	"	Quaker Oats Co., Peterboro.	Quaker	None	42918
"	5	"	42919	J. W. McKay, Ottawa	2 "	"	Maple Leaf Flour Mills Co., Ltd., Kenora	Quality	"	42919
"	8	"	42920	A. H. Mattice, Ottawa	2 "	"	The Ogilvie Flour Mills Co., Montreal	Royal Household	"	42920
"	8	"	42921	A. G. McCormick, Cornwall	2 "	"	Lake of the Woods Milling Co., Ltd., Kewatin	Five Roses	"	42921
"	8	"	42922	Jno. L. Waite, Ottawa	2 "	"	Western Canada Flour Mills Co., Toronto	Purity	0.1	0.5
"	8	"	42923	W. A. Arnberg, Ottawa	2 "	"	Dowd Milling Co., Ltd., Pack-culham	Hungarian Patent	None	42923
"	8	"	42924	L. Renaud, Ottawa	2 "	6	Wm. Scott & Co., Deschenes, P.Q.	White Clover	Trace	42924
"	8	"	42925	" " "	2 "	"	Polar Star	None	None	42925

2 GEORGE V., A. 1912

## BULLETIN No. 206—FLOUR—(NITRITE REACTING NITROGEN IN).

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.	Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS		No. of Sample.
				Quantity.	Cents.			Nitrite reacting Nitrogen. Parts per million.	Calculated as Sodium Nitrite. Parts per million.	
DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.										
1910.										
Mar.	1	44206	W. P. Peters, Kingston.....	2 lbs.	10	Lake of the Woods Milling Co....	.....	None.....	None.....	44206
"	"	44207	Geo. Gibson, Kingston.....	2 "	7	— Leitch, Oak Lake.....	.....	0.4.....	2.0.....	44207
"	"	44208	J. A. McFarland, Kingston.....	2 "	6	Western Canada Flour Co.....	.....	9.2.....	1.0.....	44208
"	"	44209	Kingston Milling Co., Kingston.....	2 "	10	Vendors.....	.....	None.....	None.....	44209
"	"	44210	D. Hutchison, Kingston.....	2 "	10	Seaforth Milling Co.....	.....	Trace.....	Trace.....	44210
"	"	44211	C. Rathman, Belleville.....	2 "	10	Western Canada Flour Mills Co....	.....	0.2.....	1.0.....	44211
"	"	44212	Paunter & Son, Belleville.....	2 "	8	Lake of the Woods Milling Co....	.....	None.....	None.....	44212
"	"	44213	A. Pakes, Belleville.....	2 "	10	Ogilvie Milling Co.....	.....	0.14.....	0.7.....	44213
"	"	44214	H. E. Fairfield, Belleville.....	2 "	10	Lake of the Woods Milling Co....	.....	None.....	None.....	44214
"	"	44215	E. A. Duncan, Cobourg.....	2 "	10	Robin Hood.....	.....	0.24.....	1.2.....	44215
"	"	44216	Hoovey & Son, Cobourg.....	2 "	6	A. Pratt.....	.....	None.....	None.....	44216
"	"	44217	J. Curtis, Port Hope.....	2 "	10	Lake of the Woods Milling Co....	.....	".....	".....	44217
"	"	44218	H. L. Burnham, Peterboro.....	2 "	10	Peterboro Cereal Co.....	.....	Trace.....	Trace.....	44218
"	"	44219	Roland Denne, Peterboro.....	2 "	10	Quaker Oats Co., Peterboro.....	.....	None.....	None.....	44219
"	"	44220	Savigny Bros., Peterboro.....	2 "	10	Central Milling Co, Peterboro.....	.....	0.1.....	0.5.....	44220

## SESSIONAL PAPER No. 14

## DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

Mar.	2	Flour.....	41447	Wm. Elliott, Toronto.	Parliament st., 2 lbs..	10	The Ogilvie Flour Mills Co., Ltd.	Patent Glengowan.....	Trace.....	41447
"	3	"	41448	J. Haines, Toronto.	Dundas St. west, 2 " ..	10	Western Canada Flour Mills Ltd. Toronto.	Purity.....	"	41448
"	4	"	41449	Cody & York, Toronto.	Newmarket..... 2 " ..	10	H. V. Denne & Co., Newmarket.	White Crown.....	None.....	41449
"	4	"	41450	W. S. Summerfeldt & Sons, Sutton.	2 " ..	10	Vendors.....	Regina.....	"	41450
"	4	"	41451	G. S. Baldwin, Aurora.....	2 " ..	10	Vendor.....	Hungarian.....	"	41451
"	7	"	41452	The Wood Milling Co., Hamilton	2 " ..	10	Vendors.....	Gold Medal.....	"	41452
"	7	"	41453	Hamilton Milling Co., Hamilton	2 " ..	5	"	Peacemaker.....	"	41453
"	8	"	41454	The Ker Milling Co., Dundas.....	2 " ..	10	"	Thistle-down.....	"	41454
"	8	"	41455	W. Pringle & Son, Hamilton.....	2 " ..	5	The Caledonia Milling Co., Ltd., Caledonia.	Bridal Veil.....	"	41455
"	9	"	41456	Thos. S. Morris, Hamilton.....	2 " ..	10	R. W. Smith, Jarvis.....	"	"	41456
"	14	"	41457	Milton Flour Mills, Milton.....	2 " ..	5	Vendor.....	"	"	41457
"	15	"	41458	J. Black & Son, St. Catharines.....	2 " ..	10	Vendors.....	Herald.....	"	41458
"	15	"	41459	The Hodley Shaw Milling Co., Ltd., St. Catharines.	2 " ..	6	"	Saskirk.....	"	41459
"	16	"	41460	Mouroe & Roanree, Thorold, Ont.	2 " ..	10	"	Perfect.....	"	41460
"	16	"	41461	H. J. Green, Niagara Falls	South 2 " ..	10	The John Campbell Co., Ltd., St. Thomas.	Sunbeam.....	0.8	41461

## DISTRICT OF LONDON—T. KIDD, INSPECTOR.

Mar.	10	Flour.....	44717	James Hewer & Son, Guelph.....	2 lbs..	10	James Gollie, Guelph.....	Snow Drift.....	1.8	44717
"	11	"	44722	Irvin Masters, Berlin.....	2 " ..	8	Vendor.....	King.....	Trace.....	44722
"	12	"	44725	Walsh Bros., Stratford.....	3 " ..	10	Faber Bros., Walsley.....	Lily White.....	None.....	44725
"	15	"	44727	J. J. McEwen.....	2 " ..	10	Western Canada Flour Milling Co.	Purity.....	0.26	44727
"	18	"	44732	Chas. Andrews, Seaforth.....	2 " ..	10	Seaforth Milling Co., Seaforth...	Wave Crest.....	None.....	44732
"	18	"	44734	Cardino Bros., Seaforth.....	3 " ..	10	Lake of the Woods Milling Co., Winnipeg.	"	"	44734



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## BULLETIN No. 206—FLOUR—(NITRITE REACTING NITROGEN IN).

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.
				Quantity.	Cents.			Nitrite reacting Nitrogen, Parts per million.	Calculated as Sodium Nitrite, million.	
DISTRICT OF LONDON—T. KIDD, INSPECTOR—Concluded.										
1910.										
Apr. 11	Floor.....	44735	Wm. Stoneman, Mitchell.	2 lbs.	10	Stewart Bros., Mitchell.....	Perth Standard.....	None.....	None.....	44735
" 12	" .....	44738	Vidier & Co.....	2 "	10	Goderich Milling Co., Goderich..	.....	0.4	2.0	44738
" 13	" .....	44739	Peter Dill, Dublin.....	2 "	19	Hunt Bros., London.....	.....	0.4	2.0	44739
" 13	" .....	44740	M. Klingham.....	2 "	10	Stewart Bros., Mitchell.....	.....	None.....	None.....	44740
" 14	" .....	44742	McCulley & Haugh, Stratford..	2 "	10	Ratz & Co., Tavistock.....	.....	0.4	2.0	44742
" 14	" .....	44743	W. B. Butcher, St. Marys.....	2 "	10	F. Carter & Co., St. Marys.....	.....	None.....	None.....	44743
" 19	" .....	44746	R. W. Wilson, Fergus.....	2 "	10	James Goldie & Co., Guelph.....	.....	0.4	2.0	44746
" 19	" .....	44747	Steel Bros., Fergus.....	2 "	10	Cargel & Son, Cargill.....	.....	None.....	None.....	44747
" 21	" .....	44750	H. Wiltsee, Clinton.....	2 "	10	J. & V. Fair, Clinton.....	.....	" .....	" .....	44750
DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.										
Mar. 3	Floor.....	42506	Hookway & Son, London.....	2 lbs.	....	H. Hamlyn, Lambeth.....	Hearty Delight.....	Trace.....	Trace.....	*42506
" 3	" .....	42507	Adams & Tanton, London.....	2 "	10	Hunt Milling Co., London.....	Dimond.....	0.4	2.0	†42507
" 4	" .....	42512	R. J. Wood, London.....	2 "	10	J. Hawkins, Arva.....	Hawkins Daisy.....	None.....	None.....	42512
" 4	" .....	42513	Cullis & Fleming, London.....	2 "	10	Watford Milling Co., Watford..	.....	Trace.....	Trace.....	42513
" 4	" .....	42516	John Whiting, London.....	2 "	10	Hunt Milling Co., London.....	.....	None.....	None.....	42516
" 7	" .....	42524	Wm. Johnston, Sarnia.....	2 "	10	Mustard & Son., Wyoming.....	Elderado.....	1.04	5.2	42524



## SESSIONAL PAPER No. 14

"	7	"	42526	Gardner Bros	2 "	10	Hayne Milling Co., Bryden	Hayne's best 3 points	None	None	42526
"	"	"	42537	King Milling Co., Sarnia	3 "	"	Vendors	Bonney Doon	"	"	42537
"	8	"	42531	A. Scarsbrook, Petrolia	2 "	7	Eureka Roller Mills, Wyoming	Elderado	0.62	3.1	32531
"	8	"	42534	Geo. Prusmer, Petrolia	2 "	7	W. W. Paling, Petrolia	"	None	None	32534
"	8	"	42535	Fred. Scarsbrook, Petrolia	2 "	6	J. Martyn Co., Alvinston	Our best	"	"	42535
"	9	"	42540	D. W. Newcombe, St. Thomas	2 "	5	Jas. Cullen, Woodstock	King Edward	0.54	2.7	42540
"	9	"	42541	"	2 "	5	Campbell Milling Co., St. Thomas	Sunbeam	Trace	Trace	*42541
DISTRICT OF MANITOBA—A. C. LARIVIERE, INSPECTOR.											
Mar.	7	Flour	43416	Wm. Bowen, Minnedosa	3 lbs.	Nil	W. J. Lindsay & Co., Rapid City, Man.	Lindsay's Patent	None	None	43416
"	21	"	43417	Morden Roller Mills, Morden	3 "	"	Morden Roller Mills, Morden	Early Down	"	"	43417
"	28	"	43418	Western Canada Flour Mills Co., St. Boniface	3 "	"	Vendors	Purity	"	"	43418
"	28	"	43419	"	3 "	"	"	Three Stars	"	"	43419
"	29	"	43420	The Ogilvie Flour Mills Co., Ltd., Winnipeg	3 "	"	"	Royal Household	"	"	43420
"	29	"	43421	"	3 "	"	"	Glenora	"	"	43421
Apr.	7	"	43422	Geo. McCulloch & Sons, Souris	3 "	"	"	Ladies Choice	"	"	43422
"	8	"	43423	Western Canada Flour Mills Co., Brandon	3 "	"	"	Snow Drift	"	"	43423
"	8	"	43424	"	2 "	"	"	Lily	"	"	43424
"	8	"	43425	The Maple Leaf Flour Mills Co., Brandon	3 "	"	"	Hard Wheat	"	"	43425
"	8	"	43426	"	2 "	"	"	Castle	"	"	43426
"	8	"	43427	Lake of the Woods Milling Co., Portage La Prairie	3 "	"	"	Five Roses	"	"	43427
"	8	"	43428	"	2 "	"	"	Harvest Queen	"	"	43428
"	13	"	43429	Nichols, Hubbard & Brine, Vir- den	3 "	"	"	Sweet Home	0.1	0.5	43429
"	13	"	43430	Leitch Bros. Milling Co., Lake	3 "	"	"	Sovereign	0.1	0.5	43430

\* Smells of Turpentine.

† Smells of Turpentine strongly

## BULLETIN No. 206—FLOUR—(NITRITE REACTING NITROGEN IN).

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.
				Quantity.	Cents.			Nitrite reacting Nitrogen, Parts per million.	Calculated as Sodium Nitrite, million.	
DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR.										
1910.										
Mar.	8 Flour.....	35642	J. H. Morris & Co., Edmonton..	2 lbs..	10	Campbell & Otterwell, Edmonton	White Rose .....	0.1	0.5	35642
"	" .....	35643	Gilbert Berg, Edmonton.....	2 " ..	10	Lake of the Woods Milling Co., Keevatin.	Five Roses.....	None....	None....	35643
"	" .....	35644	Hallier & Aldridge, Edmonton ..	2 " ..	10	Ogilvie, Winnipeg.....	Royal Household.....	" .....	" .....	35644
"	" .....	35645	Spencer & Todd, Medicine Hat..	2 " ..	10	Lake of the Woods Milling Co....	Five Roses.....	0.1	0.5	35645
"	" .....	35646	L. B. Cochrane, Medicine Hat..	2 " ..	10	Med. Hat Milling Co.....	Prairie Pride.....	None....	None....	35646
"	" .....	35647	Hudson's Bay Co., Lethbridge..	2 " ..	10	Ogilvie, Winnipeg.....	Royal Household.....	" .....	" .....	35647
"	" .....	35648	Bentley Co., Lethbridge.....	2 " ..	10	Lake of the Woods Milling Co....	Five Roses.....	0.1	0.5	35648
"	" .....	35649	MacDonald & Co., Lethbridge..	2 " ..	10	Taylor Milling Co., Lethbridge..	Pride of Alberta.....	None....	None....	35649
"	" .....	35650	Geo. Kerr & Co., Lethbridge.....	2 " ..	10	Ogilvie, Winnipeg.....	Royal Household.....	" .....	" .....	35650
"	" .....	35651	H. A. McKillop Co., Lethbridge ..	2 " ..	10	Taylor Milling Co., Lethbridge..	Pride of Alberta.....	0.46	2.3	35651
"	" .....	35652	The Corner Grocery.....	2 " ..	10	Calgary Milling Co.....	Seal of Alberta.....	1.06	5.3	35652
"	" .....	35653	Hallat & Longden.....	2 " ..	10	" .....	" .....	0.2	1.0	35653
"	" .....	35654	S. G. Freeze.....	2 " ..	10	Western Milling Co., Calgary...	Rising Sun.....	None....	None....	35654
"	" .....	35655	J. T. Macdonald.....	2 " ..	10	Ogilvie's, Winnipeg .....	Royal Household.....	" .....	" .....	35655
"	" .....	35656	Hudson's Bay Co.....	2 " ..	10	Lake of the Woods Milling Co., Keevatin.	Five Roses.....	" .....	" .....	35656

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## DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.

14 Mar.	10	Flour	37813	Ideal Grocery, Vancouver, B.C.	2 lbs.	20	Lake of the Woods Milling Co.	5 Roses	None	None	37813
"	10	"	37814	H. A. Edgett Co., Vancouver, B.C.	2 "	10	Unknown	"	"	"	37814
"	10	"	37815	Clark's Grocery, Vancouver, B.C.	2 "	10	Ogilvie Milling Co.	Economy	"	"	37815
"	10	"	37816	Duke's Grocery, Vancouver, B.C.	2 "	10	"	Royal Household	"	"	37816
"	10	"	37817	The White Grocery, Vancouver, B.C.	2 "	20	Saskatchewan Flour Mills Co., Ltd.	Robin Hood	0.24	1.2	37817
"	10	"	37818	J. D. Miller, Vancouver, B.C.	2 "	10	Medicine Hat Milling Co.	Prairie Pride	None	None	37818
"	10	"	37819	H. J. Parry	2 "	15	Allison Milling & Elevator Co.	Our Best	0.2	1.0	37819
"	10	"	37820	A. & C. Grocery, Vancouver	2 "	15	Unknown	"	0.1	0.5	37820
"	10	"	37821	McDowell Kinnis, Vancouver	2 "	10	Vancouver Milling Co.	Wild Rose	None	None	37821
"	10	"	37822	J. McTaggart, Vancouver	2 "	10	Columbia Flour Mills	Premium	0.1	0.5	37822
"	10	"	37823	Hudson's Bay Co., Vancouver	2 "	10	Hudson's Bay Co., Winnipeg	Hudson's Bay Hungarian	None	None	37823
"	11	"	37824	Timms & Mitchell, Vancouver	2 "	10	Hammond Milling Co., Seattle	Queen Ann	0.24	1.2	37824
"	10	"	37825	Walford & Roney, Vancouver	2 "	10	Easterbrook Milling Co.	Imperial	None	None	37825
"	10	"	37826	Wm. Crossman, Vancouver	2 "	10	Columbia Mills, Ltd.	Drifted Snow	"	"	37826
"	11	"	37827	W. H. Walsh, Vancouver	2 "	10	Western Canada Flour Mills	Purity	0.74	3.7	37827

## DISTRICT OF VICTORIA—D. OSULLIVAN, INSPECTOR.

Mar.	15	Flour	41634	Windsor Grocery Co., Victoria, B.C.	2 lbs.	10	Ogilvie Flouring Mills, Winnipeg, Man.	Royal Household	None	None	41634
"	16	"	41635	The Brackman Ker Milling Co., Ltd., Victoria, B.C.	2 "	8	Lake of the Woods Milling Co., Keewatin	Five Roses	"	"	41635
"	16	"	41636	Sanders Grocery Co., Ltd., Victoria, B.C.	2 "	10	The Columbia Flouring Mills Co., Ltd., Enderby, B.C.	Drifted Snow	"	"	41636
"	16	"	41637	The Brackman Ker Milling Co., Ltd., Victoria, B.C.	2 "	8	"	Three Star	"	"	41637
"	16	"	41638	"	2 "	8	The Portland Flouring Mills Co., Albany, Ont.	Snowflake	"	"	41638
"	16	"	41639	"	2 "	8	Western Canada Milling Co.	Purity	0.18	0.9	41639

## BULLETIN No. 206—FLOUR—(NITRITE REACTING NITROGEN IN).

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.
				Quantity.	Cents.			Nitrite reacting Nitrogen, Parts per million.	Calculated as Sodium Nitrite, Parts per million.	
DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR—Concluded.										
1910.	16 Flour.....	41640	The Brackman Ker Milling Co., Ltd., Victoria, B.C.	2 lbs..	8	Medicine Hat Milling Co., Medicine Hat, Alta.	Prairie Pride Patent....	None.....	None.....	41640
"	" .....	41641	" .....	2 " ..	8	Saskatchewan Milling Co., Moose Jaw, Sask.	Robin Hood.....	0.28	1.4	41641
"	" .....	41642	" .....	2 " ..	8	Calgary Milling Co., Calgary, Alta.	Hungarian Patent.....	0.1	0.5	41642
"	" .....	41643	" .....	2 " ..	8	Vancouver Milling & Grain Co., Vancouver, B.C.	Wild Rose.....	None.....	None.....	41643
"	" .....	41644	" .....	2 " ..	8	" .....	Royal Standard.....	" .....	" .....	41644
"	" .....	41645	" .....	2 " ..	8	Columbia Flouring Mills Co., Ltd., Enderby, B.C.	Moffet's Best. ....	" .....	" .....	41645
"	" .....	41646	Scott & Peden, Victoria, B.C.	2 " ..	5	Ellison Mills & Elevator Co., Ltd., Raymond, Alta.	Our Best No. 1 Hard Wheat.	0.6	3.0	41646
"	" .....	41647	Geo. N. Goven, Victoria, B.C.	2 " ..	10	Calgary Milling Co., Calgary, Alta.	Seal of Alberta.....	0.52	2.7	41647
"	" .....	41648	Sylvester Feed Co., Victoria, B.C.	2 " ..	....	Central Mills, Victoria, B.C.....	Whole Wheat.....	None.....	None.....	41648



## APPENDIX B.

## BULLETIN No. 207—BEEF, IRON AND WINE. (VINUM CARNIS ET FERRI.)

OTTAWA, May 10, 1910.

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

SIR,—The preparation known as Beef, Iron and Wine is not defined in either the British or the United States Pharmacopœias, nor does it occur in the Canadian Formulary. The United States National Formulary of unofficial preparations contains the following definition :—

445. *Vinum Carnis et Ferri. Wine of Beef and Iron. Beef, Wine and Iron.*

Extract of Beef, thirty-five grammes. ....	35 gm.
Tincture of Citro-Chloride of Iron, 35 c.c. ....	35 c.c.
Hot water, sixty cubic centimetres. ....	60 c.c.
Sherry Wine, a sufficient quantity to make one thousand cubic centimetres. ....	1,000 c.c.

Pour the hot water upon the Extract of Beef contained in a mortar or other suitable vessel, and triturate until a smooth mixture results. Then gradually add, while stirring, eight hundred (800) cubic centimetres of Sherry Wine. Next add the tincture and enough Sherry Wine to make one thousand (1,000) cubic centimetres. Transfer the mixture to a bottle, set this aside for a few days in a cold place, if convenient, filter, and pass enough Sherry Wine through the filter to restore the original value.

Each fluid drachm represents 2 grains of Extract of Beef, and 2 minims of Tincture of Citro-Chloride of Iron.

The Tincture of Citro-Chloride of Iron, named in the above formula, is itself an unofficial tincture, practically identical in content of iron with the official *Tinctura Ferri Chloridi*, U.S.P., which is somewhat weaker in iron than the *Tinctura Ferri Perchloridi* of the B.P. (Iron ratio: U.S.P., 4·7; B.P., 5·6.

The iron content of *Vinum Carnis et Ferri* would therefore be 0·188 per cent, expressed as Ferric Oxide.

The nitrogen in Extract of Beef does not represent proteid material, but is chiefly derived from anido-compounds, or so-called flesh bases. These are regarded as having rather a stimulant than a nutritive value, a matter which however need not be discussed here, since the object of the present investigation is rather to discover the variation of character of the article offered as Beef, Iron and Wine, than to indicate its therapeutic and nutritive value, a matter which must be decided by the physician. A report upon Extract of Beef was published in 1899, as Bulletin No. 63.

Apart from the Iron and Beef content, the only element of value in this article is the alcohol, representing the wine used in its preparation.



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It will be seen that among the 76 samples represented by the present collection, the three elements of value vary within extremely wide limits.

Total solids.....	from 7.20	to 26.22	per cent.
Nitrogen..	" 0.002	" 0.322	"
Ash .....	" 0.180	" 1.488	"
Iron ( $\text{Fe}_2\text{O}_3$ ).....	" 0.050	" 0.480	"
Alcohol.....	" 6.67	" 18.77	"

*Total solids.*—The material included under this heading is chiefly meat extractives, common salt, and the solid matters of the wine. In some cases meat fibre appears to have been added, giving a turbid appearance to the liquid when shaken up. Most of the preparations are however quite clear and contain no suspended (or deposited) matter, or but traces.

*Nitrogen.*—This is a measure of the so-called meat bases (amido compounds) in solution. The factor 3.12 is usually employed to convert nitrogen into this class of compounds, and *Vinum Carnis et Ferri* as found on the market, may apparently contain anywhere from 0.006 to 1.005 per cent (practically from none to 1 per cent) of meat bases. It must be left to the medical profession to say whether or not this is a satisfactory state of things.

*Ash.*—If from the ash we deduct the iron (as ferric oxide) the difference may be taken as common salt, together with the mineral matters natural to wine. These last may vary from about 0.12 to 0.45 (see Bulletin No. 38). So far as known they have no therapeutic importance.

*Iron.*—As already explained, the National Formulary of the United States, requires the presence of 0.188 per cent of iron (as  $\text{Fe}_2\text{O}_3$ ). Doubtless the extended use of this preparation is largely due to a belief that it supplies iron to the body in an available form. Whether this is a fact or not, must be determined by the medical profession. It is certain that the great variation in amount of iron found in the commercial article of Beef, Iron and Wine, makes it a very uncertain vehicle for the administration of this drug.

*Alcohol.*—This component is introduced as wine. The extreme amounts found may be thus stated:—

Alcohol by weight.....	from 6.67	to 18.77	per cent.
Alcohol by volume.....	" 8.30	" 23.01	"
Equivalent proof spirit.....	" 14.60	" 40.32	"

I am unable to say whether or not this preparation is prescribed by the medical profession to any large extent. It is, however, quite certain that it obtains a large sale, and is popularly believed to possess valuable tonic properties.

The present report will, so far as it goes, enable those interested to know something of the character of Commercial Beef, Iron and Wine; and I beg to recommend its publication as Bulletin No. 207.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,  
Chief Analyst.

BULLETIN No. 207—BEEF, IRON AND WINE.

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.					
				Quantity.	Cents.			Grams per 100 c.c.					
								Total Solids.	Nitrogen.	Ash.	Iron ( $\text{Fe}_2\text{O}_3$ )	Alcohol.	No. of Sample.

DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.

1910.												
Mar. 9.	Beef, Iron and Wine	41926	Nat. Drug & Chem. Co., Halifax, N.S.	1 bot.	50	Vendors.....	23.36	0.655	0.780	0.085	12.30	41926
" 14.	"	41927	L. C. Gardner & Co., Yarmouth, N.S.	"	50	"	14.31	0.126	0.890	0.480	11.82	41927
" 14.	"	41928	B. F. Trask, Yarmouth, N.S.	"	75	Vendor .....	9.05	0.014	0.180	0.115	13.25	41928
" 16.	"	41929	H. B. Wilson, Windsor, N.S.	"	40	H. K. Wampole, Perth, Ont.	13.11	0.009	0.275	0.140	12.37	41929
" 16.	"	41930	R. B. Dakin, Windsor, N.S.	"	40	Toronto Pharmacal Co., Toronto, Ont.	9.49	0.055	0.330	0.165	12.26	41930

DISTRICT OF PRINCE EDWARD ISLAND—THEO. MOORE, INSPECTOR.

Mar. 5.	Beef, Iron and Wine	38656	Johnson & Johnson, Charlottetown.	1 pt.	100	Druggists Corporation of Canada, Toronto.	11.74	0.002	0.620	0.260	13.09	38656
" 5.	"	38657	E. Keir, Kensington ...	"	75	H. K. Wampole, Perth, Ont.	17.52	0.038	0.290	0.115	12.85	38657
" 10.	"	38658	C. E. McDonald, Sum- merside.	"	100	Gibson Howell & Co., Philadelphia, Pa.	15.24	0.038	0.235	0.110	13.61	38658
" 15.	"	38659	J. C. Ferguson, Souris...	3 1/2 "	120	W. K. Wampole, Toronto	17.79	0.042	0.270	0.135	12.41	38659
" 15.	"	38660	Dr. A. A. McDonald, Souris.	1 "	75	E. B. Shuttleworth Chem. Co., Toronto.	15.60	0.042	0.535	0.365	9.48	38660

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## DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.

Mar. 4.	Beef, Iron and Wine	39670	Nat. Drug & Chem. Co., Ltd., St. John, N.B.	1 bot.	85 Vendors ..	.....	8-82	0-101	0-530	0-140	12-37	39670
" 10.	"	39671	The Canadian Drug Co., Ltd., St. John, N.B.	3 bots.	60 "	.....	10-46	0-020	0-305	0-075	15-10	39671
" 15.	"	39672	Arthur J. Ryan, Fred- erick, N.B.	"	85 H. K. Wainpole & Co., Perth, Ont.	.....	17-97	0-027	0-260	0-135	11-94	39672
" 16.	"	39673	The Baird Co., Ltd., Woodstock, N.S.	"	88 Vendors ..	.....	9-84	0-308	0-200	0-155	11-94	39673
Apr. 7.	"	39674	A. E. Shaw, Newcastle, N.B.	"	50 Lyman Sous & Co., Mon- treal.	.....	19-73	0-071	0-440	0-080	11-11	39674

## DISTRICT OF QUEBEC—E. BELAND, INSPECTOR.

Mar. 7.	Beef, Iron and Wine	36538	C. Belanger, 102 Rue du Pont.	3 bots.	180 W. Brunet & Cie, Quebec	.....	18-30	0-157	1-125	0-390	13-53	36538
" 8.	"	36539	C. O. Simard, 8 Rue St. Jean.	"	180 Armour Ltd., Toronto	.....	17-95	0-132	1-488	0-210	15-55	36539
" 8.	"	36540	F. Gauvreaux, 336 Rue St. Jean.	"	150 Unknown ..	.....	7-50	0-210	0-670	0-225	15-55	36540
" 8.	"	36541	F. Gauvreaux, 336 Rue St. Jean.	"	225 "	.....	11-01	0-102	0-670	0-155	15-63	36541
" 8.	"	36542	A. Jolicoeur, 338 Rue St. Jean.	"	300 Lyman Ltd., Montreal	.....	11-35	0-102	0-670	0-135	15-31	36542

## DISTRICT OF ST. HYACINTHE—J. C. ROULEAU, INSPECTOR.

Mar. 3.	Beef, Iron and Wine	1291	Hill & Dépatie, St. 3 bots. Armand.	3 bots.	150 Dunlop Pharmaceutical Co., Montreal.	.....	20-29	0-060	0-450	0-200	15-39	1291
" 7.	"	1292	P. A. Berard, Drum- mondville.	"	225 Nat. Drug & Chem. Co., Montreal.	.....	10-11	0-179	0-640	0-175	13-81	1292
" 8.	"	1293	L. A. D. Houde, Nicolet.	"	225 The Chapin Dart Co., Montreal.	.....	26-22	0-137	1-260	0-175	6-87	1293
" 8.	"	1294	J. R. Dubé, Becancour..	"	225 Davis & Lawrence Co., Montreal.	.....	14-87	0-116	1-090	0-050	13-41	1294
" 17.	"	1295	Wright & Co., St. Jean. 24 oz.	24 oz.	100 Jno. Wyeth & Bro., Philadelphia.	.....	11-27	0-125	0-390	0-110	12-85	1295

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## BULLETIN No. 207—BEEF IRON AND WINE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Inspector's Report. (Is not an expression of opinion.)	RESULTS OF ANALYSIS.					
				Quantity.	Cents.		Total Solids.	Nitrogen.	Ash.	Iron (Fe <sub>2</sub> O <sub>3</sub> ).	Alcohol.	No. of Sample.
1910.												
Mar. 2.	Beef, Iron and Wine	40412	Chas. E. Frosst & Co., 3 bots. Lagauchetière st. west, Montreal.		88	Vendors .....	21.61	0.061	0.385	0.115	13.49	40412
" 3.	"	40413	Queineville & Guerin, 397 St. Antoine st. west Montreal.	1 bot.	75	Franks Mfg. Co., Mon- treal.	18.18	0.056	0.410	0.255	13.01	40413
" 8.	"	40414	B. Fox, 168 St. Lawrence st. west, Montreal.	"	100	Nyalls.....	9.95	0.239	0.640	0.065	14.60	40414
" 9.	"	40415	Dr. E. N. Fournier, St. Jerome, P.Q.	"	100	Nat. Drug & Chem. Co., Ltd., Montreal.	9.46	0.120	0.550	0.160	13.41	40415
" 16.	"	40416	J. Wenfeld, 458 St. Lawrence st., Montreal.	"	50	Parke Davis & Co.....	15.25	0.021	0.375	0.070	6.67	40416

## DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.

## DISTRICT OF OTTAWA—J. A. RICEY, INSPECTOR.

Mar. 1.	Beef, Iron and Wine	42931	W. R. Wallace, Pen- broke.	1 bot.	100	F. Stearns & Co., Detroit	16.09	0.200	0.535	0.060	12.61	42931
" 2.	"	42932	Wm. A. McCreagh, Hawkesbury.	"	85	Toronto Pharmaceutical Co., Ltd., Toronto.	9.23	0.045	0.320	0.105	11.71	42932
" 4.	"	42933	C. A. McHaffie, Corn- wall.	"	100	Lyman's Ltd., Montreal	11.42	0.080	0.760	0.150	15.39	42933
" 9.	"	42934	Bryson Graham, Ltd., Ottawa.	3 bots.	165	The Toronto Drug Co., Ltd., Toronto.	11.94	0.075	0.455	0.245	9.92	42934
" 11.	"	42935	Birch Bros., Richmond, Ont.	1 bot.	80	Northrop & Lyman's Co., Ltd., Toronto.	17.57	0.059	0.360	0.325	15.87	42935
" 11.	"	42941	Brown Bros., Richmond, Ont.	3 bots.	150	The T. Milburn Co., Ltd., Toronto.	22.78	0.080	0.475	0.320	12.87	42941

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## DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.

Mar. 1.	Beef, Iron and Wine	44241	F. Hoag, Kingston	3 bots.	300 J. Wyeth & Bro., Philadelphia.	11.02	0.121	0.570	0.125	15.79	44241
" 1.	"	44242	J. McLeod, Kingston	"	300 J. Wyeth & Bro., Philadelphia.	12.12	0.152	0.675	0.120	15.79	44242
" 1.	"	44243	A. P. Chown, Kingston	"	150 Parke Davis & Co., Walkerville.	23.00	0.224	1.315	0.225	13.17	44243
" 1	"	44244	National Drug Co., Kingston	"	180 Armour, Toronto	18.37	0.121	0.890	0.200	12.53	44244
" 1.	"	44245	W. W. Gibson, Kingston	"	150 Armour, Toronto	8.35	0.059	0.616	0.085	12.69	44245

## DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

Mar. 2.	Beef, Iron and Wine	41482	L. C. Armstrong, 8221 Queen st. e., Toronto.	1 bot.	50 The Dominion Drug Co., Ltd., Hamilton.	10.77	0.081	0.410	0.165	13.41	41482
" 3.	"	41483	Chas. J. Stoddard, 178-183 Dundas st. w., Toronto.	"	50 Vendor	13.24	0.238	0.710	0.165	9.43	41483
" 4.	"	41484	J. R. Y. Broughton, New-market.	"	60 "	19.93	0.031	0.840	0.185	12.57	41484
" 8.	"	41485	Arthur Boyle, York st., Hamilton.	1 "	55 The Toronto Pharmaceutical Co., Toronto.	9.02	0.060	0.215	0.175	14.20	41485
" 15.	"	41486	R. E. Reynolds, 154 James st. n., Hamilton.	1 "	40 "	8.67	0.004	0.315	0.200	11.86	41486

## DISTRICT OF LONDON—T. KIDD, INSPECTOR.

Mar. 16.	Beef, Iron and Wine	44716	A. B. Petrie, Guelph	3 bots.	225 Lyman Bros., Toronto	11.20	0.108	0.405	0.165	14.28	44716
" 11.	"	44723	J. H. Schmidt, Berlin	3 "	175 National Drug Co., Hamilton.	7.20	0.098	0.555	0.085	9.21	44723
" 15.	"	44729	S. E. Hicks, Goderich	3 "	150 F. Stearns & Co., Windsor.	16.75	0.171	1.070	0.275	13.65	44729
" 21.	"	44751	Mr. Robb, Clinton	1 bot.	75 Druggists Corporation of Canada, Ltd.	11.20	0.205	0.585	0.255	12.02	44751



## BULLETIN No. 207—BEEF, IRON AND WINE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Inspector's Report. (Is not an expression of opinion.)	RESULTS OF ANALYSIS.					
				Quantity.	Cents.		Total Solids.	Nitrogen.	Ash.	Iron (Fe <sub>2</sub> O <sub>3</sub> ).	Alcohol.	No. of Sample.

## DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.

1910												
Mar. 3.	Beef, Iron and Wine	42509	N. W. Emerson, London	1 bot.	50	National Drug Co., London, Ont.	9.12	0.112	0.490	0.135	14.35	42509
" 7.	"	42520	P. J. McGibbon, Sarnia.	1 "	100	John Wyeth & Bro.	13.01	0.105	0.670	0.110	16.03	42520
" 7.	"	42529	G. G. Ingersoll, Sarnia.	1 "	100	Fred. Stearns & Co., Windsor, Ont.	14.24	0.227	0.630	0.335	13.65	42529
" 8.	"	42535	Geo. Denham, Petrolia.	1 "	75	Druggists Corporation of Canada, Toronto.	11.92	0.322	0.415	0.329	7.96	42533
" 9.	"	42539	E. C. Harvey, St. Thomas	1 "	75	Vendor.	10.36	0.150	0.685	0.085	10.27	42539

## DISTRICT OF MANITOBA—A. C. LARIVIERE, INSPECTOR.

Mar. 18.	Beef, Iron and Wine	43411	Norman B. Henry, Glenboro.	16 oz.	75	Parke, Davis & Co., Walkerville, Ont.	23.17	0.245	1.470	0.180	11.86	43411
" 21.	"	43412	R. D. Bruce, Morden	2 bots.	200	Toronto Pharmaceutical, Ltd., Winnipeg.	8.89	0.076	0.830	0.135	12.69	43412
" 21.	"	43413	W. Collins & Co., Morden	2 "	200	H. S. Millar, M.D., New York.	17.05	0.045	0.260	0.100	13.78	43413
" 22.	"	43414	The Central Drug Co., den.	2 "	200	National Drug and Chemical Co., Ltd.	10.69	0.113	0.410	0.320	14.11	43414
" 23.	"	43415	P. F. Braund, Winnipeg.	2 "	150	John Wyeth & Bro., Philadelphia.	13.93	0.091	0.475	0.200	13.78	43415
" 24.	"	35897	The Gordon Mitchell Drug Co., Winnipeg.	24 oz.	125	Vendors.	8.25	0.053	0.225	0.210	18.77	35897



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## DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR.

Mar. 8.	Beef, Iron and Wine	35667	The Edmonton Drug Co., 12 oz., Edmonton.	100 Canadian Drug Syndi- cate, London, Ont.	9.49	0.112	0.600	0.365	11.71	35667
" 8.	"	35668	A. Archibald, Edmonton	100 John Wyeth & Bro., Philadelphia, Pa.	10.61	0.084	0.339	0.100	14.20	35668
" 8.	"	35669	Macdonald's Pharmacy, 12 " "	75 Parke Davis, Walker- ville, Ont.	17.83	0.112	0.400	0.155	10.95	35669
" 15.	"	35670	Edmonton. C. S. Pringle, Medicine 12 " "	175 Stearns & Co., Windsor, Ont.	12.26	0.275	0.800	0.180	12.57	35670
" 15.	"	35671	Hat. E. M. Cawker, Medicine 12 " "	175 Parke Davis, Walker- ville.	17.52	0.063	0.365	0.075	15.00	35671

## DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.

Mar. 14.	Beef Iron and Wine	37848	Manhattan Pharmacy, 3 pks., Vancouver	300 National Drug and Chemi- cal Co.	19.96	0.105	0.505	0.160	15.23	37848
" 14.	"	37849	City Drug Store, Van- couver, B. C.	300 Davis & Lawrence Co., Montreal.	19.29	0.095	0.615	0.130	14.92	37849
" 14.	"	37850	W. Harrison & Co., Van- couver, B. C.	300 Vendors.....	16.87	0.046	0.265	0.100	12.83	37850
" 14.	"	37851	Capitol Drug Store, 3 " "	300 Gibson, Howell & Co., Philadelphia.	16.56	0.037	0.250	0.135	12.26	37851
" 14.	"	37852	Vancouver, B. C. Van- couver, B. C.	300 Jno. Wyeth & Bro., Montreal.	11.49	0.101	0.335	0.120	14.92	37852

## DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.

Mar. 18	Beef, Iron and Wine	41659	F. J. Williams, Victoria, 1 bot. B. C.	100 Parke, Davis & Co., Walkerville, Ont.	17.66	0.063	0.455	0.055	11.27	41659
" 18.	"	41660	W. S. Terry, Victoria, 1 " "	100 Vendor.....	9.96	0.122	0.565	0.435	12.61	41660
" 18.	"	41661	Hall & Co., Victoria, 1 " "	100 Jno. Wyeth & Bro., Philadelphia.	11.78	0.198	0.555	0.065	15.95	41661
" 18.	"	41662	Win. Jackson & Co., 1 " "	100 Dominion Drug Co., Hamilton.	10.30	0.074	0.210	0.065	14.84	41662
" 18.	"	41663	Geo. A. Fraser, Victoria, 1 " "	100 Vendor.....	16.75	0.046	0.365	0.150	12.93	41663



## APPENDIX C.

## BULLETIN No. 208—CONDENSED AND EVAPORATED MILK.

OTTAWA, May 26, 1910.

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

SIR,—I have the honour to hand you herewith a report upon 154 samples purchased as Condensed and Evaporated Milk, throughout the Dominion, in March of this year.

Details of the collection are as follows:—

Condensed Milk.....	104 samples	}      Analysed.
Evaporated Milk .....	45 do	
Milk Food (Collected by mistake)....	3 do	} Not do
Spoiled samples .....	2 do	

Further details as to vendor, manufacturer, and percentage results of analysis are given in Table I. Table II gives a synopsis of the results obtained with samples of the same brand, for evaporated (unsweetened) milks, the different brands being arranged in alphabetic order. Table III does the same for the condensed (sweetened) milks.

The last examination of Condensed Milk was reported in Bulletin 144 (January 1908). It represented 142 samples, classified thus:—

Evaporated Milk. ....	47 samples.
Condensed Milk.....	95 do

These names being applied respectively to the non-sugared, and sugared products.

Nine brands of Evaporated (unsugared) Milk were represented of which brands only four (4) are found in the present collection. The following comparison of these brands is of interest:—

## EVAPORATED MILK.

Brand.	Inspection of 1908.		Inspection of 1910.	
	Number of Samples.	Mean fat.	Number of Samples.	Mean fat.
Carnation.....	1	6.93	2	6.74
Jersey Cream.....	8	8.08	11	7.27
Peerless.....	11	6.50	6	6.70
St. Charles. ....	16	7.10	12	6.94

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Nineteen brands of Condensed (sugared) Milk appear in the collection of 1908, of which twelve (12) are found in the present collection, as follows :—

Brand.	Inspection of 1908.		Inspection of 1910.	
	Number of Samples.	Mean fat.	Number of Samples.	Mean fat.
Challenge . . . . .	3	7·37	10	7·83
Clover . . . . .	9	7·91	4	7·27
Eagle . . . . .	12	8·00	13	7·85
Gold Seal . . . . .	11	7·33	3	7·60
Good Luck . . . . .	4	7·73	1	7·06
Lion . . . . .	1	7·62	1	8·92
Nestle's (England). . . . .	3	7·87	13	8·27
Oak . . . . .	6	8·51	1	8·42
Pheasant . . . . .	2	5·10	4	4·35
Purity . . . . .	1	7·87	1	7·64
Reindeer . . . . .	20	8·61	12	7·97
Silver Cow . . . . .	11	7·64	9	7·98

An inspection of these tables shows that considerable care is taken in the manufacture of concentrated milk. In most cases the difference in fat value between the averages for 1908 and 1910 is less than one-half of one per cent; and with a legalized standard to be met, it is reasonable to believe that future inspections of this article will show still more constancy and uniformity in the output.

Attention has more than once been called to the misuse of the term *Cream* in naming unsweetened condensed milk. The word *Cream* has a perfectly definite and well understood signification, and is legally defined as follows: 'Cream is that portion of milk, rich in milk fat, which rises to the surface of milk on standing, or is separated from it by centrifugal force, is fresh and clean, and contains (unless otherwise specified), not less than eighteen (18) per cent of milk fat.'

It is manifestly misleading to apply such a term to the article tabulated in Table II. Such an article is more truly described as *Evaporated Milk*, and is defined for purposes of the Act as follows: 'Evaporated Milk 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.'

Evaporated Milk is quantitatively defined in terms of Total Milk Solids, and Milk Fat.

The mean results of the nine brands of Table II appear as follows :—

#### EVAPORATED MILK.

Name of Brand.	Total Solids		Milk Fat	
	Found.	Below Standard.	Found.	Below Standard.
B. C. . . . .	25·29	0·71	5·92	1·23
Canada First . . . . .	29·02	above	7·52	above
Carnation . . . . .	23·86	2·14	6·74	0·46
Express . . . . .	30·20	above	8·12	above
Imperial . . . . .	22·04	3·96	5·64	1·56
Jersey Cream . . . . .	27·47	above	7·27	above
Libby's . . . . .	24·64	1·3	6·00	1·20
Peerless . . . . .	26·97	above	6·70	0·50
St. Charles . . . . .	26·64	above	6·94	0·26

The standards in question have been adopted after very careful study of the subject, and the fact that they are fully met by three brands, and are met within one half of one per cent of fat by six brands proves that the requirements are reasonable.

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For Condensed (sugared) Milks the corresponding standard limits are 28 per cent of milk solids, and 7.7 per cent of fat. Of these two requirements, quite the more important is the fat percentage. Exact determinations of milk solids are interfered with, and rendered difficult by the presence of added cane sugar, which is more or less changed in character during the processing. The following synopsis of mean results, as found in Table III, gives the fat content at a glance.

Name of Brand.	Fat found.	Above Standard.	Below Standard.
Anchor .....	8.28	0.58	—
Banner .....	5.96	—	1.74
Beaver .....	7.56	—	0.14
Canadian .....	8.16	0.46	—
Canada First .....	7.74	0.04	—
Challenge .....	7.83	0.13	—
Clover .....	7.27	—	0.43
Eagle .....	7.85	0.15	—
Emery's .....	7.64	—	0.06
Gold Seal .....	7.60	—	0.10
Good Luck .....	7.06	—	0.64
Lion .....	8.92	1.22	—
Nestle's (England) .....	8.27	0.57	—
" (Norway) .....	8.69	0.99	—
" (Switzerland) .....	8.94	1.24	—
Oak .....	8.42	0.72	—
Pheasant .....	4.35	—	2.35
Princess .....	5.40	—	2.30
Purity .....	7.64	—	0.06
Red Cow .....	0.60	—	7.10
Reindeer .....	7.97	0.27	—
Royal .....	4.60	—	3.16
Silver Cow .....	7.98	0.28	—
Sweet's Pride .....	8.28	0.58	—
White Star .....	7.96	0.26	—

It will be seen that 12 brands, out of 23 tabulated, reach the required standard for fat, while five others come within one half of one per cent of its requirements. Of the remaining brands some are professedly manufactured from skimmed milk. This finding would therefore seem to support the reasonableness of our standards, as regards milk fat content for Condensed Milk. For the information of those interested in milk and its products the latest revision of proposed standards is printed as an appendix to this report.

I beg to recommend the publication of this report as Bulletin No. 208.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,  
*Chief Analyst.*

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TABLE I.—CONDENSED AND

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.	
DISTRICT OF NOVA SCOTIA—						
1910.						
Mar. 7	Evaporated Cream..	41916	Dillon Bros., Halifax, N.S.	3 cans	45	Aylmer Canning Co., Aylmer, Ont.
" 7	"	41917	W. E. Crowe & Co., Halifax, N.S.	3 "	45	Borden's Condensed Milk Co., New York.
" 7	"	41918	Share & Campbell, Halifax, N.S.	3 "	45	Truro Condensed Milk Co., Truro, N.S.
" 8	"	41919	W. J. Hopgood & Son, Halifax, N.S.	3 "	45	St. Charles Condensing Co., St. Charles, Ill.
" 11	Condensed Milk ....	41920	Taylor Drug Co., Bridge-water, N.S.	3 "	75	H. Nestle, Switzerland. . . .
" 8	"	41921	J. L. Archibald & Son, Halifax, N.S.	3 "	54	Truro Condensed Milk Co., Truro, N.S.
" 8	"	41922	City Provision Co., Halifax, N.S.	3 "	30	Canada Milk Condensing Co., Antigonish, N.S.
" 8	"	41923	E. Donahoe & Son, Halifax, N.S.	3 "	36	Truro Condensed Milk Co., Truro, N.S.
" 8	"	41924	S. T. Craig, Halifax, N.S.	3 "	30	Canada Milk Condensing Co., Antigonish, N.S.
" 8	"	41925	E. B. Tracey, Halifax, N.S.	3 "	36	Sweet Milk Condensing Co., Laurentides, Que.

## DISTRICT OF PRINCE EDWARD ISLAND—

Mar. 5	Condensed Milk ....	38646	Johnson & Johnson, Charlottetown.	3 tins.	75	Henri Nestle, Vevey, Switzerland.
" 9	"	38647	J. A. Hynes, Kensington.	3 "	60	Charlottetown Condensed Milk Co., Charlottetown.
" 10	"	38648	R. T. Holman, Ltd., Summerside.	3 "	30	Aylmer Condensed Milk Co., Aylmer, Ont.
" 10	"	38649	T. N. Enman, Summerside	3 "	75	Henri Nestle, Vevey, Switzerland.
" 10	Condensed Cream...	38650	Brace & McKay, Summerside.	3 "	36	Truro Condensed Milk Co., Truro, N.S.
" 10	" Milk....	38651	F. W. Strong, Summerside	3 "	42	Aylmer Condensed Milk Co., Aylmer, Ont.
" 10	" Cream...	38652	A. W. P. Gourlie, Summerside.	3 "	60	.....
" 15	" Milk...	38653	Sterns Bros., Souris.....	3 "	36	Borden Condensed Milk Co., Tillsonburg, Ont.
" 17	" " ....	38654	McDonald & McKinnon, Charlottetown.	3 "	75	Henri Nestle, Vevey, Switzerland.
" 17	" " ....	38655	Sanderson & Co., Charlottetown.	3 "	45	Charlottetown Condensed Milk Co., Charlottetown.



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## EVAPORATED MILK (OR CREAM).

Inspector's Report (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.							No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Density.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	Loss to 500 cc Warm Water.			Calculated on 9 per cent basis.
										Concen- tration.

## R. J. WAUGH, INSPECTOR.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
Canada First .....	1·0750	72·92	27·08	1·46	6·68	10·78	...	2·37	2·95	41916
Peerless ..	1·0721	74·00	26·00	1·68	6·56	10·51	.....	2·25	3·04	41917
Jersey Cream.....	1·0757	72·76	27·24	1·74	6·88	10·53	.....	2·36	3·04	41918
St. Charles .....	1·0700	74·04	25·96	1·44	6·84	9·85	.....	2·21	3·22	41919
.....	1·3186	26·44	73·56	1·62	8·92	..	54·16	.....	.....	41920
Reindeer .....	1·3298	27·00	73·00	1·86	7·36	....	55·96	.....	.....	41921
Red Cow.....	1·3455	32·24	67·76	1·92	0·60	....	56·36	.....	.....	41922
Clover . . . . .	1·3116	31·04	68·96	1·54	7·00	....	53·40	.....	.....	41923
Royal. ....	1·3298	29·52	70·48	1·76	4·60	..	55·00	.....	.....	41924
Sweet's Pride. ....	1·3183	27·28	72·72	1·82	8·28	.....	54·80	.....	.....	41925

## THEO. MOORE, INSPECTOR.

.....	1·3138	27·32	72·68	1·88	9·08	.....	52·52	.....	.....	38646
Lion. ....	1·2920	29·96	70·04	1·54	8·32	.....	50·68	.....	.....	38647
Beaver .....	1·3158	28·80	71·20	1·62	7·56	.....	54·16	.....	.....	38648
.....	1·3276	26·24	73·76	1·98	7·60	.....	55·68	.....	.....	38649
Reindeer .....	1·0736	73·16	26·84	1·56	6·92	10·00	.....	2·31	3·13	38650
Canada First .....	1·3165	28·48	71·52	1·72	7·48	.....	55·00	.....	.....	38651
St. Charles . ....	1·0728	72·48	27·52	1·44	7·00	10·01	.....	2·37	3·07	38652
Challenge.....	1·3242	26·20	73·80	1·74	8·28	.....	55·52	.....	.....	38653
.....	1·3206	27·04	72·96	1·86	8·48	....	53·76	.....	.....	38654
Oak.....	1·3090	28·24	71·76	1·82	8·42	.....	53·36	.....	.....	38655

(2 GEORGE V., A. 1912

TABLE I.—CONDENSED AND

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.	
DISTRICT OF NEW BRUNSWICK—							
1910.							
Mar.	7	Evaporated Cream..	39660	Dearborn & Co., St. John, N.B.	3 tins.	45	Aylmer Condensed Milk Co., Aylmer, Ont.
"	7	Condensed Milk ....	39661	Baird & Peters, St. John, N.B.	3 " "	38	Borden's Condensed Milk Co., New York.
"	10	" .....	39662	H. W. Cole Co., Ltd., St. John, N.B.	3 " "	35	The Truro Condensed Milk Co., Ltd., Truro, N.S.
"	15	" .....	39663	G. T. Whelpley Estate, Fredericton, N.B.	3 " "	45	The St. Chas. Condensing Co., Ingersoll.
"	16	" .....	39664	J. Rankine Brown, Woodstock, N.B.	3 " "	54	Truro Condensed Milk Co., Ltd., Truro, N.S.
"	17	Evaporated Cream..	39665	D.R. Bedell, Andover, N.B.	3 " "	36	St. Charles Condensing Co., Ingersoll, Ont.
"	18	Condensed Milk ....	39666	Geo. T. Baird Co., Ltd., Perth, N.B.	3 " "	45	Aylmer Condensed Milk Co., Aylmer, Ont.
April	1	Evaporated Cream ..	39667	Walter Gilbert, St. John, N.B.	3 " "	15	Borden's Condensed Milk Co., New York.
"	6	Condensed Milk ....	39668	Reed Co., Ltd., Moncton, N.B.	3 " "	30	Canada Condensed Milk Co., Ltd., Antigonish, N.S.
Mar.	9	Jersey Cream. ....	39669	G. E. Barbour Co., Ltd., St. John, N.B.	3 " "	25	The Truro Condensed Milk Co., Truro, N.S.
DISTRICT OF QUEBEC—							
Mar.	4	Condensed Milk ....	36528	W. Brunet & Cie, 139 Rue St. Joseph, Que.	3 tins.	45	Leeming Miles Co., Montreal
"	4	" .....	36529	" " " "	3 " "	45	" " "
"	4	" .....	36530	" " " "	3 " "	45	" " "
"	4	" .....	36531	T. E. Livernois, St. Jean & Bouillard.	3 " "	45	" " "
"	4	" .....	36532	" " " "	3 " "	45	" " "
"	4	" .....	36533	A. Rinfret, 414 Rue St. Joseph, Que.	3 " "	45	Langlois & Paradis, Quebec..
"	4	" .....	36534	O. Bacon, 28 Rue Hermine, Que.	3 " "	45	Bedard & frere, Quebec.....
"	4	" .....	36535	E. Robitail, 48 Rue Victoria, Que.	3 " "	45	Langlois & Paradis, Quebec..
"	7	" .....	36536	O. Lacroix, 19 Rue St. Joseph, Que.	3 " "	45	Turcot & frere, Quebec.....
"	7	" .....	36537	" " " "	3 " "	30	T. B. Reneaud & Cie, Quebec
DISTRICT OF ST. HYACINTHE—							
Mar.	3	Condensed Milk ....	1279	D. H. Conner, Bedford ...	3 tins.	45	Mathewson's Sons, Montreal
"	7	" .....	1280	D. Hebert, Drummondville	3 " "	45	St. Chas. Condensing Co., Ingersoll, Ont.
"	7	" .....	1281	P. Lambert, Daveluyville..	3 " "	45	.....
"	8	" .....	1282	J. O. T. Dufresnes, Nicolet	3 " "	38	Aylmer Condensed Milk Co., Aylmer, Ont.

SESSIONAL PAPER No. 14

## EVAPORATED MILK (OR CREAM).

Inspector's Report (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Density.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	Loss to 500 cc Warm Water.	Calculated on 9 per cent basis.		
								Concen- tration. t in original bulk.		

## J. C. FERGUSON, INSPECTOR.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
Canada First. ....	1·0845	69·60	30·40	1·86	7·56	12·19	.....	2·67	2·98	39660
Eagle. ....	1·3242	27·12	72·88	1·54	7·80	.....	55·72	.....	.....	39661
Reindeer. ....	1·3263	26·96	73·04	1·86	7·60	.....	56·00	.....	.....	39662
Purity. ....	1·3220	27·32	72·68	1·62	7·64	.....	55·28	.....	.....	39663
Clover. ....	1·3130	29·24	70·76	1·56	7·16	.....	54·80	.....	.....	39664
St. Charles. ....	1·0761	72·32	27·68	1·58	6·68	10·67	.....	2·44	2·86	39665
Canada First. ....	1·3131	28·16	71·84	1·82	8·12	.....	53·64	.....	.....	39666
Peerless. ....	1·0780	72·16	27·84	1·54	6·92	10·33	.....	2·43	2·98	39667
Pheasant. ....	1·3206	31·68	68·32	1·76	5·04	.....	53·36	.....	.....	39668
Jersey Cream. ....	1·0727	72·56	27·44	1·74	6·76	10·30	.....	2·39	2·94	39669

## E. BELAND, INSPECTOR.

.....	1·3144	26·44	73·56	1·60	9·04	.....	54·52	.....	.....	36528
.....	1·3270	27·36	72·64	1·76	8·48	.....	54·68	.....	.....	36529
.....	1·3193	27·08	72·92	1·66	8·52	.....	55·32	.....	.....	36530
.....	1·3200	27·24	72·76	1·76	8·28	.....	54·44	.....	.....	36531
.....	1·3179	26·56	73·44	1·78	9·38	.....	54·52	.....	.....	36532
.....	1·3116	27·88	72·12	1·66	8·74	.....	53·00	.....	.....	36533
.....	1·3291	26·64	73·36	1·72	7·28	.....	57·20	.....	.....	36534
.....	1·3014	28·04	71·96	1·56	6·96	.....	55·32	.....	.....	36535
.....	1·0783	71·64	28·36	1·70	6·96	10·99	.....	2·49	2·93	36536
.....	1·3117	28·64	71·36	1·60	7·88	.....	53·68	.....	.....	36537

## J. C. ROULEAU, INSPECTOR.

Challenge. ....	1·3144	27·32	72·68	1·46	8·32	.....	53·92	.....	.....	1279
Silver Cow. ....	1·3028	29·76	70·24	1·64	8·24	.....	51·80	.....	.....	1280
Challenge. ....	1·3110	29·48	70·52	1·52	6·96	.....	54·24	.....	.....	1281
Canada First. ....	1·3123	28·08	71·92	1·78	7·84	.....	54·24	.....	.....	1282

2 GEORGE V., A. 1912

TABLE I.—CONDENSED AND

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.	
DISTRICT OF ST. HYACINTHE—						
1910.						
Mar. 15	Condensed Milk....	1283	Gilmour & Girard, Waterloo.	2 tins.	50	Henri Nestle, Vevey, Switzerland.
" 9	Evaporated Cream..	1284	Paul Tourigny & fils ....	3 "	45	St. Chas. Condensing Co., Ingersoll, Ont.
" 9	" ..	1285	H. H. Guay, Victoriaville.	3 "	60	Aylmer Condensed Milk Co., Aylmer, Ont.
" 10	" ..	1286	Denault Grain and Produce Co., Sherbrooke.	3 "	25	Borden's Condensed Milk Co., Ingersoll, Ont.
" 10	" ..	1287	Woodman & McKee, Coaticook.	3 "	30	The Truro Condensed Milk Co., Truro, N.S.
" 18	" ..	1288	Thos. Hebert, St. Hyacinthe	3 "	60	" " ..
DISTRICT OF MONTREAL—						
Mar. 1	Condensed Milk ....	40402	The Leeming Mills Co., Ltd., Montreal.	3 tins.	38	Henri Nestle .....
" 1	" ....	40403	" " ..	3 "	38	" .....
" 1	" ....	40404	" " ..	3 "	38	" .....
" 2	" ....	40405	George Graham, 572 St. Catherine W., Montreal.	3 "	45	" .....
" 2	" ....	40406	" " ..	3 "	45	" .....
" 3	" ....	40407	D. Demetelin, 144 St. Antoine St., Montreal.	3 "	30	Canada Condensed Co., Ltd., Antigonish, N.S.
" 7	" ....	40408	Truro Condensed Milk Co., Ltd., Huntingdon, P.Q.	3 "	37	Vendors.....
" 7	" ....	40409	" " ..	3 "	30	" .....
" 8	" ....	40410	T. H. Mallette, 20 Lagache-tiere St. W., Montreal	3 "	45	Aylmer Condensed Milk Co., Ltd.
" 7	Condensed Cream...	40411	Truro Condensed Milk Co., Ltd., Huntingdon, P.Q.	3 "	30	Vendors.....
DISTRICT OF OTTAWA—						
Feb. 28	Evaporated Cream..	42906	The F. J. Castle Co., Ltd., Ottawa.	3 tins.	31	Canadian Cannery Ltd., Aylmer, Ont.
Mar. 4	Condensed Milk....	42907	E. H. Brown, Cornwall. .	3 "	75	Unknown.....
" 9	" ....	42908	Beattie & Argue, Ottawa..	3 "	75	Nat. Drug & Chem. Co., Ltd., Ottawa.
" 9	Evaporated Cream..	42909	Bryson Graham Ltd., Ottawa.	3 "	38	H. N. Bate & Sons, Ottawa.
" 10	Condensed Milk ...	42910	W. T. Pinkerton & Co., Ottawa.	3 "	60	" " ..
" 10	" ....	42936	F. W. Forde, Ottawa.....	3 "	38	Leeming Miles & Co., Montreal.
" 10	Evaporated Cream..	42937	P. Lamoureux & Co., Ottawa.	3 "	45	Provost & Allard, Ottawa ..
" 15	Condensed Milk....	42938	Joseph Grant, Ottawa....	3 "	30	St. Chas. Condensing Co., Ingersoll, Ont.
" 15	" ....	42939	Provost & Allard, Ottawa..	3 "	33	Aylmer Condensed Milk Co., Ltd., Aylmer, Ont.
" 15	Evaporated Cream..	42940	A. E. Rea & Co., Ltd., Ottawa.	3 "	38	The Truro Condensed Milk Co., Ltd., Truro, N.S.

## SESSIONAL PAPER No. 14

## EVAPORATED MILK (OR CREAM).

Inspector's Report (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.									No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Density.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	Loss to 500 cc Warm Water.	Calculated on 9 per cent basis.			
								Concen- tration.	Fat in original bulk.		
J. C. ROULEAU, INS <sup>P</sup> ECTOR— <i>Concluded.</i>											
.....	1·3172	27·40	72·60	1·73	8·48	.....	53·40	.....	.....	1283	Both samples churned. Could not sample.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1284	
Canada First . . .	1·0861	69·00	31·00	1·76	7·40	12·51	.....	2·76	2·82	1285	
Peerless . . . . .	1·0695	75·00	25·00	1·44	6·16	10·11	.....	2·17	2·94	1286	
Jersey . . . . .	1·0678	73·44	26·56	1·46	7·40	9·31	.. .	2·21	3·48	1287	
" . . . . .	1·0780	72·08	27·92	1·56	6·76	10·94	....	2·46	2·88	1288	

## J. J. COSTIGAN, INSPECTOR.

Made in Switzer- land.	1·3048	26·68	73·32	1·72	9·00	.....	54·48	.....	.....	.....	40402	
Made in England..	1·3200	27·40	72·60	1·78	8·42	.....	54·28	.....	.....	.....	40403	
" Norway..	1·3227	27·04	72·96	1·76	8·36	.....	55·60	.....	.....	.....	40404	
" " ..	1·3206	27·08	72·92	1·74	8·52	.....	55·80	.....	.....	.....	40405	
" England..	1·3172	27·40	72·60	1·66	8·60	.....	54·12	.....	.....	.....	40406	
Pheasant....	1·2987	32·96	67·04	1·70	5·36	.....	51·52	.....	.....	.....	40407	
Reindeer.....	1·3103	30·00	70·00	1·54	6·96	.....	54·28	.....	.....	.....	40408	
Clover . . . . .	1·3116	29·36	70·64	1·62	7·68	.....	54·16	.....	.....	.....	40409	
Canada First. ....	1·3186	28·48	71·52	1·64	7·16	.....	54·72	.....	.....	.....	40410	
Jersey . . . . .	1·0700	73·52	26·48	1·46	7·04	9·57	.....	2·24	3·26	.....	40411	

## J. A. RICKEY, INSPECTOR.

Canada First.....	1·0847	69·20	30·80	1·70	8·00	11·96	.....	2·12	3·16	.....	42906	
Nest Brand, in England.	1·3172	28·20	71·80	1·74	7·34	.....	53·60	.....	.....	.....	42907	
Reindeer.....	1·3227	27·48	72·52	1·68	7·84	.....	55·04	.....	.....	.....	42908	
Peerless . . . . .	1·0763	72·92	27·08	1·54	1·52	10·95	.....	2·39	2·85	.....	42909	
Eagle.....	1·3158	26·68	73·32	1·42	9·00	.....	54·28	.....	.....	.....	42910	
Nest Brand, in Switzerland.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42936	Sample too thick to obtain ac- curate results.
.....	1·0682	75·24	24·76	1·46	6·20	9·49	.....	2·14	3·01	.....	42937	
Good Luck.. . . .	1·3035	30·92	69·08	1·66	7·06	.....	53·00	.....	.....	.....	42938	
Canada First.....	1·3110	27·36	72·64	1·68	8·88	.....	53·16	.....	.....	.....	42939	
Jersey Cream.....	1·0730	71·80	28·20	1·54	7·76	10·10	.....	2·37	3·42	.....	42940	



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TABLE I.—CONDENSED AND

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.	
DISTRICT OF KINGSTON—							
1910.							
Mar.	1	Condensed Milk . . . .	44221	F. Hoag, Kingston . . . . .	3 tins.	45	Borden . . . . .
"	1	" . . . .	44222	C. S. Prouse, Kingston . . . .	3 "	45	Nestle's . . . . .
"	1	" . . . .	44223	J. McLeod, Kingston . . . . .	3 "	45	Borden . . . . .
"	3	" . . . .	44224	R. Templeton, Belleville . . .	3 "	1.38	.....
"	3	" . . . .	44225	F. C. Clarke, Belleville . . . .	3 "	75	.....
"	3	" . . . .	44226	A. J. Gould, Cobourg . . . . .	3 "	60	Borden . . . . .
"	3	" . . . .	44227	W. J. B. Davison, Port Hope.	3 "	75	" . . . . .
"	4	" . . . .	44228	McDermid & Jury, Peterboro.	3 "	69	" . . . . .
"	4	" . . . .	44229	E. L. Payne, Peterboro . . . .	3 "	1.50	.....
"	4	" . . . .	44230	J. D. Tulley, Peterboro . . . .	3 "	60	Borden . . . . .
DISTRICT OF TORONTO—							
Mar.	2	Evaporated Cream . . . .	41462	E. Broad, 142 Queen St. East, Toronto.	3 cans.	15	St. Char. Condensing Co., Ingersoll.
"	2	Condensed Milk . . . .	41463	C. C. Wood, 1,001 Queen St. East, Toronto.	3 "	30	Borden's Condensed Milk Co., New York.
"	3	Evaporated Cream . . . .	41464	J. Poleskey, 1,594 Dundas St. West, Toronto.	3 "	30	" " . . . .
"	8	" Milk . . . .	41465	Peebles, Hobson & Co., King St., Hamilton.	3 "	25	Libby, McNeil & Libby, Chicago.
"	8	" Cream . . . .	41466	Bain & Adams, King St., Hamilton.	3 "	15	Aylmer Condensed Milk Co., Aylmer, Ont.
"	14	Condensed Milk . . . .	41467	E. J. Wilson, Milton . . . . .	3 "	45	Eby Blain Co., Ltd., Toronto.
"	15	" . . . .	41468	Park & Park, Hamilton . . . .	3 "	38	John Malcom & Son, St. George.
"	15	Jersey Cream . . . . .	41469	The W. H. Merriman Co., St. Catharines.	3 "	22	The Truro Condensed Milk Co., Ltd., Truro, N.S.
"	16	Condensed Milk . . . .	41470	J. T. Petrie, Thorold . . . . .	3 "	30	John Malcom & Son, St. George.
"	17	" . . . .	41471	F. H. Taylor, 4 Erie Ave., Niagara Falls.	3 "	38	Borden's Condensed Milk Co., Tillsonburg, Ont.
"	18	" . . . .	41479	E. J. West & Co., 176 King St. East, Toronto.	3 "	45	Henri Nestle, Vevey, Switzerland.
"	18	" . . . .	41480	" " . . . .	3 "	45	" " . . . .
"	18	" . . . .	41481	" " . . . .	3 "	45	" " . . . .



SESSIONAL PAPER No. 14

## EVAPORATED MILK (OR CREAM).

Inspector's Report. (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Density.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	Loss to 500 cc Warm Water.	Calculated on 9 per cent basis.				
								Concen- tration.	Fat in original bulk.			
JAS. HOGAN, INSPECTOR.												
Eagle.....	1·3214	27·80	72·20	1·72	7·60	.....	54·64	.....	.....	44221	Nestle's Milk Food, purchased by mistake.	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44222		
Eagle . . . . .	1·3131	27·52	72·48	1·56	9·00	.....	52·84	.....	.....	44223		
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44224	Nestle's Milk Food.	
Silver Cow. ....	1·3144	27·32	72·68	1·54	8·32	.....	53·60	.....	.....	44225		
.....	1·3234	27·28	72·72	1·58	7·88	.....	55·92	.....	.....	44226		
Eagle . . . . .	1·3021	31·08	68·92	1·48	7·52	.....	52·52	.....	.....	44227		
" . . . . .	1·3242	27·60	72·40	1·72	7·80	.....	55·72	.....	.....	44228		
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44229	Nestle's Milk Food.	
Eagle.....	1·3214	27·68	72·32	1·64	7·44	.....	54·96	.....	.....	44230		
H. J. DAGER, INSPECTOR.												
St. Charles . . . . .	1·0733	73·08	26·92	1·54	6·88	10·34	.....	2·32	3·09	41462	Sample somewhat churned, conse- quently, results not altogether satisfactory.	
Challenge.....	1·3117	28·24	71·76	1·42	7·76	.....	53·72	.....	.....	41463		
Peerless . . . . .	1·0771	72·34	27·66	1·82	7·08	11·03	.....	2·39	3·10	41464		
Libby's Unsweet- ened Sterilized Evaporated Milk	1·0679	75·36	24·64	1·60	6·00	9·90	.....	2·15	2·90	41465		
Canada First . . . . .	1·0789	70·56	29·44	1·48	7·48	10·91	.....	2·56	3·06	41466		
Anchor . . . . .	1·3104	29·32	70·68	1·82	8·28	.....	52·12	.....	.....	41467		
Banner . . . . .	1·3448	28·72	71·28	1·70	3·88	.....	58·20	.....	.....	41468		
Jersey Cream.....	1·0708	73·12	26·88	1·46	7·48	9·42	.....	2·24	3·47	41469		
Princess . . . . .	1·3383	27·32	72·68	1·76	5·40	.....	57·36	.....	.....	41470		
Challenge.....	1·3193	27·00	73·00	1·58	7·64	.....	55·84	.....	.....	41471		
Labelled Nestle's Condensed Milk in Norway.	1·3220	26·88	73·12	1·68	8·68	.....	55·36	.....	.....	41479		
Labelled Nestle's Condensed Milk in England.	1·3234	27·24	72·76	1·86	8·48	.....	54·64	.....	.....	41480		
Labelled Nestle's Condensed Milk prepared in Switzerland.	1·3138	26·88	73·12	1·68	9·00	.....	54·24	.....	.....	41481		

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TABLE I.—CONDENSED AND

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.	
DISTRICT OF LONDON—						
1910.						
Mar. 10	Condensed Milk . . . .	44719	Jackson & Son, Guelph . . .	3 cans.	45	Truro Condensed Milk Co., Truro, N.S.
" 10	" . . . .	44720	Hood Bros., Guelph . . . . .	" .	45	McPherson & Glasco, Hamilton.
" 11	" . . . .	44721	Beck & Schell, Berlin . . . . .	" .	30	John Sloan, London, Ont. . .
" 12	Evaporated Cream . .	44724	Barnsdale Trading Co., Stratford.	" .	45	Geo. Watts & Sons, Brantford.
" 15	Condensed Milk . . . .	44728	P. J. Dean, Goderich . . . . .	" .	38	Masuret, London . . . . .
April 11	" . . . .	44737	N. E. Coppin . . . . .	" .	45	St. Chas. Condensing Co., Ingersoll.
" 14	" . . . .	44741	McCully & Haugh, Stratford.	" .	45	Unknown . . . . .
" 14	" . . . .	44744	Pickard & Fleming, St. Marys.	" .	45	John Malcom & Son, St. George.
" 19	" . . . .	44749	Armstrong Bros., Feigus . .	" .	30	T. Kiunear, Grocer, Toronto.
" 21	" . . . .	44752	B. A. McEwin, Clinton . . .	" .	45	St. Chas. Condensing Co., Ingersoll.
" 21	" . . . .	44753	J. P. Shepherd & Co., Clinton.	" .	45	" " . .
DISTRICT OF WINDSOR—						
Mar. 3	Condensed Milk . . . .	42508	Jno. Diprose, London . . . . .	3 tins.	45	St. Chas. Condensing Co., Ingersoll.
" 3	Evaporated Cream . .	42511	Harry Ranahan, London . .	3 " .	45	Aylmer Condensed Milk Co., Aylmer, Ont.
" 4	Condensed Milk . . . .	42514	Jno. Diprose, No. 2 Store, London.	3 " .	45	" " . .
" 4	Evaporated Cream . .	42515	A. J. Clark, London . . . . .	3 " .	45	St. Chas. Condensing Co., Ingersoll.
" 5	Condensed Milk . . . .	42517	W. T. Strong, London . . . .	4 " .	75	Henri Nestle, Vevey, Switzerland.
" 7	" . . . .	42521	Clement Drug Co., Sarnia .	3 " .	75	Borden Condensed Milk Co., New York.
" 7	" . . . .	42525	Stanley C. Williams, Sarnia .	3 " .	30	Truro Condensed Milk Co. . .
" 8	Evaporated Cream . .	42536	C. R. Polley, Petrolia . . . .	3 " .	45	St. Chas. Condensing Co. Ingersoll.
" 9	Condensed Milk . . . .	42542	Fred W. Judd, St. Thomas .	3 " .	75	Henri Nestle, Vevey, Switzerland.
" 9	" . . . .	42543	J. A. McCause, St. Thomas .	3 " .	40	Borden's Condensed Milk Co., New York.
DISTRICT OF MANITOBA—						
Mar. 14	Condensed Milk . . . .	39891	A. Macdonald & Co., Winnipeg.	3 tins.	40	Borden's Condensed Milk Co., Tillsonburg, Ont.
" 14	" . . . .	39892	Wm. McCullough, Winnipeg.	3 " .	45	The Truro Condensed Milk Co., Ltd., Truro, N.S.
" 14	" . . . .	39893	" " . . . . .	3 " .	45	Aylmer Condensed Milk Co. Ltd., Aylmer, Ont.

SESSIONAL PAPER No. 14

## EVAPORATED MILK (OR CREAM).

Inspector's Report (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.								No. of Sample,	Remarks and Opinion of the Chief Analyst.	
	Density.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	Loss to 500 cc Warm Water.	Calculated on 9 per cent basis.			
								Concen- tration.			Fat in original bulk.

## T. KIDD, INSPECTOR.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
.....	1-3172	27-84	72-16	1-62	8-20	.....	54-12	.....	.....	44719
.....	1-3110	27-56	72-44	1-60	8-08	.....	54-40	.....	.....	44720
.....	1-3186	27-52	72-48	1-60	7-28	.....	55-44	.....	.....	44721
.....	1-0673	74-12	25-88	1-44	7-20	9-05	.....	2-15	3-47	44724
.....	1-3179	27-88	72-12	1-54	7-32	.....	55-48	.....	.....	44728
.....	1-3103	28-29	71-80	1-42	8-30	.....	53-12	.....	.....	44737
.....	1-3034	29-04	70-96	1-64	8-16	.....	52-96	.....	.....	44741
.....	1-2179	28-28	71-72	1-66	7-60	.....	54-80	.....	.....	44744
.....	1-3217	27-56	72-44	1-48	8-24	.....	54-72	.....	.....	44749
.....	1-2960	32-36	67-64	1-60	7-48	.....	50-52	.....	.....	44752
.....	1-3014	28-88	71-12	1-50	8-80	.....	52-12	.....	.....	44753

## JNO. TALBOT, INSPECTOR.

Silver Cow.....	1-3034	28-28	71-72	1-64	8-24	.....	53-52	.....	...	42508
Canada First.....	1-0703	72-12	27-88	1-50	7-96	9-81	.....	2-30	3-60	42511
.....	1-3298	25-96	74-04	1-72	7-68	.....	56-60	.....	.....	42514
St. Charles.....	1-0649	75-04	24-96	1-46	6-20	8-81	.....	2-12	3-18	42515
Nest Brand.....	1-3138	28-48	71-52	1-82	7-52	.....	53-42	.....	.....	42517
Eagle.....	1-3682	29-96	70-64	1-64	7-24	.....	53-12	.....	.....	42521
Clover.....	1-3104	30-92	69-03	1-56	7-24	.....	53-20	.....	.....	42525
St. Charles.....	1-0710	72-36	27-64	1-48	7-88	9-65	.....	2-28	3-59	42536
Nestle's condensed milk.	1-3158	27-60	72-40	1-86	8-08	.....	54-40	.....	.....	42542
Challenge.....	1-3220	26-88	73-12	1-76	8-20	.....	55-52	.....	.....	42543

## A. C. LARIVIERE, INSPECTOR.

Gold Seal.....	1-3186	26-44	73-56	1-64	8-16	.....	55-32	.....	.....	39811
Reindeer.....	1-3220	26-92	73-08	1-62	8-08	.....	55-00	.....	.....	39892
Canada First.....	1-2954	30-24	69-76	1-76	8-04	.....	51-80	.....	.....	39893

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TABLE I.—CONDENSED AND

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.	

## DISTRICT OF MANITOBA—

1910.						
Mar. 14	Condensed Milk....	39894	J. N. Campbell, Winnipeg.	3 tins.	45	The A. Macdonald Co., Winnipeg.
" 14	" .....	39895	H. E. Weldon & Co., Winnipeg.	3 "	30	Chtn. Condensed Milk Co., Charlottetown.
" 14	Exaporated Cream...	39896	A. Macdonald & Co., Winnipeg.	3 "	30	.....
" 14	" .....	39897	H. E. Weldon & Co., Winnipeg.	3 "	30	The Truro Condensed Milk Co., Ltd., Truro, N.S.
" 14	Condensed Milk ....	39898	The Hudson Bay Co., Winnipeg.	3 "	40	Emery Food Co., Chicago, Ill.
" 14	" .....	39899	" " .....	3 "	40	Canada Condensed Milk Co., Ltd., Antigonish, N.S.
" 15	Evaporated Cream...	39900	A. W. Smith, Winnipeg...	3 "	30	The Canadian Condensing Co., Ltd., Chesterville, Ont.

## DISTRICT OF CALGARY—

Mar. 8	Evaporated Cream...	35657	J. H. Morris & Co., Edmonton.	3 tins.	45	St. Chas. Condensing Co., Illinois, U.S.A.
" 8	Condensed Milk....	35658	Gilbert Berg, Edmonton ..	3 "	45	The Truro Condensed Milk Co., Truro, N.S.
" 8	" .....	35659	Hallier & Aldridge, Edmonton.	3 "	45	" " ..
" 8	" .....	35660	The Edmonton Drug Co., Edmonton.	3 "	45	Bordens Condensed Milk Co. New York.
" 15	Evaporated Cream...	35661	D. Milne Co., Ltd., Medicine Hat.	3 "	45	St. Chas. Condensing Co. Illinois, U.S.A.
" 15	Condensed Milk....	35662	" " .....	3 "	45	Bordens Condensed Milk Co., New York.
" 15	" .....	35663	Spencer & Todd, Medicine Hat.	3 "	45	The Truro Condensed Milk Co., Truro, N.S.
" 15	Evaporated Cream...	35664	L. B. Cochrane, Medicine Hat.	3 "	45	B.C. Condensed Milk Co., New Westminster.
" 18	" .....	35665	Campbell Wilson & Horne, Calgary.	3 "	45	Aylmer Condensed Milk Co., Aylmer, Ont.
" 22	Condensed Milk....	35666	Hudson's Bay Co., Edmonton.	3 "	45	" " ..

## DISTRICT OF VANCOUVER—

Mar. 10	Evaporated Cream...	37828	Geo. Wagg, Vancouver, B.C.	3 tins.	40	B.C. Milk Condensing Co...
" 10	Condensed Milk....	37829	Woodward Dept. Store, Vancouver, B.C.	3 "	45	Canada Milk Condensing Co.
" 10	Evaporated Cream...	37830	McCulloch Bros., Vancouver, B.C.	3 "	25	Pacific Coast Condensing Co.
" 10	Condensed Milk....	37831	S. Goranson, Vancouver, B.C.	3 "	60	Bordens Condensed Milk Co.
" 10	" .....	37832	Peoples Grocery, Vancouver, B.C.	3 "	25	Truro Condensed Milk Co...
" 10	Evaporated Cream...	37833	A. Murray & Co., Vancouver, B.C.	3 "	45	Aylmer Condensed Milk Co.

SESSIONAL PAPER No. 14

## EVAPORATED MILK (OR CREAM).

Inspector's Report (Is not an expression of opinion).	RESULTS OF ANALYSIS.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Density.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	Loss to 500 cc Warm Water.	Calculated on 9 per cent basis.		
								Concentration.		

A. C. LARIVIERE, INSPECTOR—*Concluded.*

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
White Star.....	1·3104	29·60	70·40	1·86	7·96	.....	52·52	.....	.....	39894
Canadian.....	1·2927	31·60	68·40	1·50	8·16	.....	50·36	.....	.....	39895
St. Charles.....	1·0703	72·84	27·16	1·42	7·20	9·34	.....	2·30	3·25	39896
Jersey Cream.....	1·0710	73·16	26·84	1·42	7·24	9·84	.....	2·26	3·32	39897
Emery.....	1·3234	27·16	72·84	1·62	7·64	.....	55·76	.....	.....	39898
Pheasant.....	1·3103	33·00	67·00	1·80	4·24	.....	52·40	.....	.....	39899
Imperial.....	1·0615	77·96	22·04	1·14	5·64	8·70	.....	1·88	3·10	39900

## R. W. FLETCHER, INSPECTOR.

.....	1·0739	71·60	28·40	1·64	6·60	10·74	.....	2·48	2·72	35657
.....	1·3096	28·84	71·16	1·58	8·04	.....	53·60	.....	.....	35658
.....	1·3090	28·60	71·40	1·58	8·60	.....	53·48	.....	.....	35659
Eagle.....	1·3214	27·84	72·16	1·76	7·44	.....	55·40	.....	.....	35660
.....	1·0765	72·12	27·88	1·46	7·04	10·68	.....	2·36	3·04	35661
Challenge.....	1·3220	27·04	72·96	1·60	7·72	.....	55·68	.....	.....	35662
Reindeer.....	1·3270	26·88	73·12	1·76	8·04	.....	55·72	.....	.....	35663
B.C. Midget.....	1·0846	72·68	27·32	1·48	5·00	11·40	.....	2·61	2·02	35664
Canada First.....	1·0715	71·60	28·40	1·56	8·08	9·89	.....	2·35	2·58	35665
".....	1·3104	30·20	69·80	1·52	7·64	.....	52·40	.....	.....	35666

## J. F. POWER, INSPECTOR.

B.C. Brand.....	1·0702	75·36	24·64	1·26	5·92	10·16	.....	2·16	2·85	37828
Pheasant.....	1·3284	30·12	69·88	1·74	2·76	.....	57·56	.....	.....	37829
Carnation.....	1·0629	76·20	23·80	1·42	6·68	8·62	.....	1·96	3·51	37830
Eagle.....	1·3116	28·00	72·00	1·60	7·88	.....	53·92	.....	.....	37831
Reindeer.....	1·3123	27·92	72·08	1·68	8·56	.....	53·68	.....	.....	37832
Canada First.....	1·0721	72·80	27·20	1·44	7·04	10·16	.....	2·33	3·14	37833



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TABLE I—CONDENSED AND

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.	

DISTRICT OF VANCOUVER—						
1910.						
Mar. 10	Evaporated Cream..	37834	A. McFarlane, Vancouver, B.C.	3 tins.	40	St. Chas. Condensing Co. . . .
" 11	Condensed Milk....	37835	J. A. Tepoorten & Co., Vancouver, B.C.	3 "	45	Henri Nestle.....
" 11	" " ....	37836	" " ..	3 "	45	" .....
" 11	" " ....	37837	" " ..	3 "	45	" .....

DISTRICT OF VICTORIA—						
Mar. 15	Evaporated Cream..	41649	Windsor Grocery Co., Victoria, B.C.	3 tins.	45	B.C. Condensing Co., New Westminster.
" 15	Jersey Cream.....	41650	" " ..	3 "	40	Truro Condensed Milk Co., Ltd., Truro, N.S.
" 15	Condensed Milk ...	41651	" " ..	3 "	45	" " ..
" 16	Evaporated Cream..	41652	Saunders Grocery Co., Ltd.	3 "	25	Pacific Coast Condensed Milk Co., Kent, Wash.
" 16	Condensed Milk....	41653	" " ..	3 "	40	Bordens Condensed Milk Co., New York.
" 16	" " ....	41654	" " ..	3 "	40	Aylmer Condensed Milk Co., Aylmer, Ont.
" 16	" " ....	41655	" " ..	3 "	40	Bordens Condensed Milk Co., New York.
" 17	" " ....	41656	Scott & Peden, Victoria, B.C.	3 "	30	John Malcom & Son., St. George, Ont.
" 17	Evaporated Cream..	41657	Wm. B. Hall, Victoria, B.C.	3 "	30	The Cltn. Condensed Milk Co., Ltd., Charlottetown.
" 17	" " ..	41658	Harrison & McDonald, Victoria, B.C.	3 "	30	Ingersoll Factory, Ingersoll Ont.



SESSIONAL PAPER No. 14

## EVAPORATED MILK (OR CREAM).

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Destiny.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	Loss to 500 cc Warm Water.	Calculated on 9 per cent basis.		
								Concentration.		

J. F. POWER, INSPECTOR—*Concluded.*

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
St. Charles. ....	1·0716	74·28	25·72	1·48	6·20	9·98	.....	2·25	2·86	37834	
"Nest Brand" Swiss.	1·3138	27·68	72·32	1·66	8·76	...	54·20	.....	.....	37835	
"Nest Brand" Norway.	1·3186	27·56	72·44	1·72	8·68	.....	54·44	.....	.....	37836	
2 "Nest Brand" England.	1·3200	26·84	73·16	1·70	8·68	.....	54·64	.....	.....	37837	

D. O'SULLIVAN, INSPECTOR.

B.C. Brand. . . . .	1·0619	76·08	23·92	1·22	6·84	9·03	....	1·95	3·60	41649	
Jersey Cream unsweetened.	1·0783	69·92	30·08	1·66	7·84	10·70	.....	2·59	3·17	41650	
Reindeer .....	1·3227	27·04	72·96	1·68	7·56	.....	56·00	.....	.....	41651	
Carnation.....	1·0628	76·08	23·92	1·28	6·80	8·78	.....	1·96	3·57	41652	
Eagle.....	1·3200	28·48	71·52	1·54	7·32	.....	54·96	...	.....	41653	
Canada First sweetened.	1·3193	29·04	70·96	1·64	6·80	.....	54·56	.....	.....	41654	
Gold Seal.....	1·3158	26·88	73·12	1·74	7·36	.....	56·68	.....	.....	41655	
Banner. ....	1·3298	28·24	71·76	1·76	6·40	.....	56·76	.....	...	41656	
Empress.....	1·0798	69·80	30·20	1·46	8·12	11·14	....	2·57	3·31	41657	
St. Charles.....	1·0710	73·12	26·88	1·58	6·92	9·92	....	2·31	3·12	41658	

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TABLE II.—EVAPORATED (UNSWEETENED) MILK.

Name of Brand.	Sample.	Density.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	CALCULATED ON 9 PER CENT BASIS.	
								Concentration.	Fat in original bulk.
			p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.
B. C .....	35664	1·0846	72·68	27·32	1·48	5·00	11·40	2·61	2·02
" .....	37828	1·0702	75·36	24·64	1·26	5·92	10·16	2·16	2·85
" .....	41649	1·0619	76·08	23·92	1·22	6·84	9·03	1·95	3·60
" .....	Means.	1·0722	74·71	25·29	1·32	5·92	10·19	2·24	2·82
Canada First .....	1285	1·0861	69·00	31·00	1·76	7·40	12·51	2·76	2·82
" .....	35665	1·0715	71·60	28·40	1·56	8·08	9·89	2·35	3·58
" .....	37833	1·0721	72·80	27·20	1·44	7·04	10·16	2·33	3·14
" .....	39660	1·0845	69·60	30·40	1·86	7·56	12·19	2·67	2·98
" .....	41466	1·0789	70·56	29·44	1·48	7·48	10·91	2·56	3·06
" .....	41916	1·0750	72·92	27·08	1·46	6·68	10·78	2·37	2·95
" .....	42511	1·0703	72·12	27·88	1·50	7·96	9·81	2·30	3·60
" .....	42906	1·0847	69·20	30·80	1·70	8·00	11·96	2·12	3·16
" .....	Means.	1·0779	70·98	29·02	1·59	7·52	11·03	2·43	3·16
Carnation .....	37830	1·0629	76·20	23·80	1·42	6·68	8·62	1·96	3·51
" .....	41652	1·0628	76·08	23·92	1·28	6·80	8·78	1·96	3·57
" .....	Means.	1·0629	76·14	23·86	1·35	6·74	8·70	1·96	3·54
Empress .....	41657	1·0798	69·80	30·20	1·46	8·12	11·14	2·57	3·31
Imperial .....	39900	1·0615	77·96	22·04	1·14	5·64	8·70	1·88	3·10
Jersey Cream .....	1287	1·0678	73·44	26·56	1·46	7·40	9·31	2·21	3·48
" .....	1288	1·0780	72·08	27·92	1·56	6·76	10·94	2·46	2·88
" .....	38650	1·0736	73·16	26·84	1·56	6·92	10·00	2·31	3·13
" .....	39669	1·0727	72·56	27·44	1·74	6·76	10·30	2·39	2·94
" .....	39897	1·0710	73·16	26·84	1·42	7·24	9·84	2·26	3·32
" .....	40411	1·0700	73·52	26·48	1·46	7·04	9·57	2·24	3·26
" .....	41469	1·0708	73·12	26·88	1·46	7·48	9·42	2·24	3·47
" .....	41650	1·0783	69·92	30·08	1·66	7·84	10·70	2·59	3·17
" .....	41918	1·0757	72·76	27·24	1·74	6·88	10·53	2·36	3·04
" .....	42536	1·0710	72·36	27·64	1·48	7·88	9·65	2·28	3·59
" .....	42940	1·0730	71·80	28·20	1·54	7·76	10·10	2·37	3·42
" .....	Means.	1·0709	72·53	27·47	1·55	7·27	10·03	2·34	3·25
Libby's .....	41465	1·0679	75·36	24·64	1·60	6·00	9·90	2·15	2·90
Peerless .....	1286	1·0695	75·00	25·00	1·44	6·16	10·11	2·17	2·94
" .....	36536	1·0783	71·64	28·36	1·70	6·96	10·99	2·49	2·93
" .....	39667	1·0780	72·16	27·84	1·54	6·92	10·33	2·43	2·98
" .....	41464	1·0771	72·34	27·66	1·82	7·08	11·03	2·39	3·10
" .....	41917	1·0721	74·00	26·00	1·68	6·56	10·51	2·25	3·04
" .....	42909	1·0763	72·92	27·08	1·54	6·52	10·95	2·39	2·85
" .....	Means.	1·0752	73·01	26·97	1·62	6·70	10·65	2·35	2·98
St. Charles .....	35657	1·0789	71·60	28·40	1·64	6·60	10·74	2·48	2·72
" .....	35661	1·0765	72·12	27·88	1·46	7·04	10·68	2·36	3·04
" .....	37834	1·0716	74·28	25·72	1·48	6·20	9·93	2·25	2·86
" .....	38652	1·0728	72·48	27·52	1·44	7·00	10·01	2·37	3·07
" .....	39665	1·0761	72·32	27·68	1·58	6·68	10·67	2·44	2·86
" .....	39896	1·0703	72·84	27·16	1·42	7·20	9·34	2·30	3·25

SESSIONAL PAPER No. 14

TABLE II.—EVAPORATED (UNSWEETENED) MILK.

Name of Brand.	Sample.	Density.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	CALCULATED ON 9 PER CENT BASIS.	
								Concentration.	Fat in original bulk.
			p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.
St. Charles. . . . .	41462	1·0733	73·03	26·92	1·54	6·88	10·34	2·32	3·09
" . . . . .	41658	1·0710	73·12	26·88	1·58	6·92	9·92	2·31	3·12
" . . . . .	41919	1·0700	74·04	25·96	1·44	6·84	9·85	2·21	3·22
" . . . . .	42515	1·0549	75·04	24·96	1·46	6·20	8·81	2·12	3·18
" . . . . .	42937	1·0682	75·24	24·76	1·46	6·20	9·49	2·14	3·01
" . . . . .	44724	1·0673	74·12	25·88	1·44	7·20	9·05	2·15	3·47
" . . . . .	Means.	1·0717	73·36	26·64	1·50	6·94	9·91	2·29	3·07

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TABLE III.—CONDENSED (SWEETENED) MILK.

Name of Brand.	Sample.	Density.	Water.	Total Solids.	Ash.	Fat.	Loss to 500 cc. Warm Water.
			p. c.	p. c.	p. c.	p. c.	p. c.
Anchor.....	41467	1·3104	29·32	70·68	1·82	8·28	52·12
Banner.....	41468	1·3448	28·72	71·28	1·70	3·88	58·20
".....	41656	1·3298	28·24	71·76	1·76	6·40	56·76
".....	44744	1·3179	28·28	71·72	1·66	7·60	54·80
".....	Means..	1·3309	28·41	71·59	1·71	5·96	56·60
Beaver.....	38648	1·3158	28·80	71·20	1·62	7·56	54·16
Canadian.....	39895	1·2927	31·60	68·40	1·50	8·16	50·36
Canada First.....	1282	1·3123	28·08	71·92	1·78	7·84	54·24
".....	35666	1·3104	30·20	69·80	1·52	7·64	52·40
".....	38651	1·3165	28·48	71·52	1·72	7·48	55·00
".....	39666	1·3181	28·16	71·84	1·82	8·12	53·14
".....	39893	1·2954	30·24	69·76	1·76	8·04	51·80
".....	40410	1·3186	28·48	71·52	1·64	7·16	54·72
".....	41654	1·3193	29·04	70·96	1·64	6·80	54·56
".....	42514	1·3298	25·96	74·04	1·72	7·68	56·60
".....	42939	1·3110	27·36	72·64	1·68	8·88	53·16
".....	Means..	1·3140	28·45	71·55	1·70	7·74	54·01
Challenge.....	1279	1·3144	27·32	72·68	1·46	8·32	53·92
".....	1281	1·3100	29·48	70·52	1·52	6·96	54·24
".....	35662	1·3220	27·04	72·96	1·60	7·72	55·68
".....	36537	1·3117	28·64	71·36	1·60	7·88	53·68
".....	38653	1·3242	26·20	73·80	1·74	8·28	55·52
".....	41463	1·3117	28·24	71·76	1·42	7·76	53·72
".....	41471	1·3193	27·00	73·00	1·58	7·64	55·84
".....	42543	1·3220	26·88	73·12	1·76	8·20	55·52
".....	44721	1·3186	27·52	72·48	1·60	7·28	55·44
".....	44749	1·3217	27·56	72·44	1·48	8·24	54·72
".....	Means..	1·3175	27·59	72·41	1·58	7·83	54·89
Clover.....	39664	1·3130	29·24	70·76	1·56	7·16	54·80
".....	40499	1·3116	29·36	70·64	1·62	7·68	54·16
".....	41923	1·3116	31·04	68·96	1·54	7·00	53·40
".....	42525	1·3104	30·92	69·08	1·56	7·24	53·20
".....	Means..	1·3116	30·14	69·86	1·57	7·27	53·89
Eagle.....	35660	1·3214	27·84	72·16	1·76	7·44	55·40
".....	37831	1·3116	28·00	72·00	1·60	7·88	53·92
".....	39661	1·3242	27·12	72·88	1·54	7·80	55·72
".....	41653	1·3200	28·48	71·52	1·54	7·32	54·96
".....	42521	1·3082	29·96	70·04	1·64	7·24	53·12
".....	42910	1·3158	26·68	73·32	1·42	9·00	54·28
".....	44221	1·3214	27·80	72·20	1·72	7·60	54·64
".....	44223	1·3131	27·52	72·48	1·56	9·00	52·84
".....	44226	1·3234	27·28	72·72	1·58	7·88	55·92
".....	44227	1·3021	31·08	68·92	1·48	7·52	52·52
".....	44228	1·3242	27·60	72·40	1·72	7·80	55·72
".....	44239	1·3214	27·68	72·32	1·64	7·44	54·96
".....	44720	1·3110	27·56	72·44	1·60	8·08	54·40
".....	Means..	1·3167	28·04	71·96	1·60	7·85	54·49

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TABLE III.—CONDENSED (SWEETENED) MILK—*Continued.*

Name of Brand.	Sample.	Density.	Water.	Total Solids.	Ash.	Fat.	Loss to 500 cc Warm Water.
			p. c.	p. c.	p. c.	p. c.	p. c.
Emery's .....	39898	1·3234	27·16	72·84	1·62	7·64	55·76
Gold Seal.....	36534	1·3291	26·64	73·36	1·72	7·28	57·20
" .....	39891	1·3186	26·44	73·56	1·64	8·16	55·32
" .....	41655	1·3158	26·88	73·12	1·74	7·36	56·68
" .....	Means..	1·3212	26·65	73·35	1·70	7·60	56·40
Good Luck .....	42933	1·3035	30·92	69·08	1·66	7·06	53·00
Lion.....	38647	1·2920	29·96	70·04	1·54	8·92	50·68
Nestle's, N.B. (prepared in England).....	1283	1·3172	27·40	72·60	1·78	8·48	53·40
" .....	46529	1·3270	27·36	72·64	1·76	8·48	54·68
" .....	36531	1·3200	27·24	72·76	1·76	8·28	54·44
" .....	37837	1·3200	26·84	73·16	1·70	8·68	54·64
" .....	38646	1·3138	27·32	72·68	1·88	9·08	52·52
" .....	38649	1·3276	26·24	73·76	1·98	7·60	55·68
" .....	38654	1·3206	27·04	72·96	1·86	8·48	53·76
" .....	40403	1·3200	27·40	72·60	1·78	8·42	54·28
" .....	40406	1·3172	27·40	72·60	1·66	8·60	54·12
" .....	41480	1·3234	27·24	72·76	1·86	8·48	54·64
" .....	42517	1·3138	28·48	71·52	1·82	7·52	53·42
" .....	42542	1·3158	27·60	72·40	1·86	8·08	54·40
" .....	42907	1·3172	28·20	71·80	1·74	7·34	53·60
" .....	Means..	1·3195	27·57	72·63	1·80	8·27	54·12
Nestle's N.B. (prepared in Norway).....	36530	1·3193	27·08	72·92	1·66	8·52	55·32
" .....	36532	1·3179	26·56	73·44	1·78	9·38	54·52
" .....	37836	1·3186	27·56	72·44	1·72	8·68	54·44
" .....	40404	1·3227	27·04	72·96	1·76	8·36	55·60
" .....	40405	1·3206	27·08	72·92	1·74	8·52	55·80
" .....	41479	1·3220	26·88	73·12	1·68	8·68	55·36
" .....	Means..	1·3202	27·03	72·97	1·72	8·69	55·17
Nestle's Swiss Milk .....	36528	1·3144	26·44	73·56	1·60	9·04	54·52
" .....	37835	1·3138	27·68	72·32	1·66	8·76	54·20
" .....	40402	1·3048	26·28	73·32	1·72	9·00	54·48
" .....	41481	1·3138	26·68	73·12	1·68	9·00	54·24
" .....	41920	1·3186	26·44	73·56	1·62	8·92	54·16
" .....	Means..	1·3131	26·82	73·18	1·66	8·94	54·32
Oak .....	38655	1·3090	28·24	71·76	1·82	8·42	53·56
Pheasant .....	37829	1·3284	30·12	69·88	1·74	2·76	57·56
" .....	39668	1·3206	31·68	68·32	1·76	5·04	53·36
" .....	39899	1·3103	33·00	67·00	1·80	4·24	52·40
" .....	40407	1·2987	32·96	67·04	1·70	5·36	51·52
" .....	Means..	1·3145	31·94	68·06	1·75	4·35	53·71
Princess.....	41470	1·3383	27·32	76·68	1·76	5·40	57·36

TABLE III.—CONDENSED (SWEETENED) MILK—*Concluded.*

Name of Brand.	Sample.	Density.	Water	Total Solids.	Ash.	Fat.	Loss to 500 cc. Warm Water.
			p. c.	p. c.	p. c.	p. c.	p. c.
Purity.....	39663	1·3220	27·32	72·68	1·62	7·64	55·28
Red Cow. ....	41922	1·3455	32·24	67·76	1·92	0·60	56·36
Reindeer .....	35668	1·3096	28·84	71·16	1·58	8·04	53·60
" .....	35659	1·3090	28·60	71·40	1·58	8·60	53·48
" .....	35663	1·3270	26·88	73·12	1·76	8·04	55·72
" .....	36533	1·3116	27·88	72·12	1·66	8·74	53·00
" .....	37832	1·3123	27·92	72·08	1·68	8·56	53·68
" .....	39662	1·3263	26·96	73·04	1·86	7·60	56·00
" .....	39892	1·3220	26·92	73·08	1·62	8·08	55·00
" .....	40408	1·3103	40·00	70·00	1·54	6·96	54·28
" .....	41631	1·3227	27·04	72·96	1·68	7·56	56·00
" .....	41921	1·3298	27·00	73·00	1·86	7·36	55·96
" .....	42908	1·3227	27·48	72·52	1·68	7·84	55·04
" .....	44719	1·3172	27·84	72·16	1·62	8·20	54·12
" .....	Means..	1·3183	27·78	72·22	1·68	7·97	54·66
Royal.. .....	41924	1·3298	29·52	70·48	1·76	4·60	55·00
Silver Cow.....	1280	1·3028	29·76	70·24	1·64	8·24	51·80
" .....	36535	1·3014	28·04	71·96	1·56	6·96	55·32
" .....	42508	1·3034	28·28	71·72	1·64	8·24	53·52
" .....	44225	1·3144	27·32	72·68	1·54	8·32	53·60
" .....	44728	1·3179	27·88	72·12	1·54	7·32	55·48
" .....	44737	1·3103	28·20	71·80	1·42	8·30	53·12
" .....	44741	1·3034	29·04	70·96	1·64	8·16	52·96
" .....	44752	1·2960	32·36	67·64	1·60	7·48	50·52
" .....	44753	1·3014	28·88	71·12	1·50	8·80	52·12
" .....	Means....	1·3057	28·86	71·14	1·56	7·98	53·16
Sweet's Pride.....	41925	1·3183	27·28	72·72	1·82	8·28	54·80
White Star.....	39894	1·3104	29·60	70·40	1·86	7·96	54·52



## APPENDIX

## MILK AND ITS PRODUCTS.

1. *Milk*, unless otherwise specified, is the fresh, clean and unaltered product, obtained by the complete, uninterrupted milking, under proper sanitary conditions, of one or more healthy cows, properly fed and kept, excluding that obtained within two weeks before and one week after calving, and contains not less than three and one quarter (3·25) per cent of milk fat, and not less than eight and one-half (8·50) per cent of milk solids, other than fat.

2. *Skim Milk* is milk from which a part or all of the cream has been removed, and contains not less than eight and one half (8·50 per cent of non-fat, milk solids.

3. *Pasteurized Milk*, is milk that has been heated below boiling, but sufficiently to kill most of the active organisms present; and immediately cooled to 45°F., or lower, and kept at a temperature not higher than 45°F., until delivered to the consumer, at which time it shall not contain more than 10,000 bacteria per cubic centimetre.

NOTE.—Pasteurization should be effected by heating in a closed vessel for not less than twenty minutes at a temperature of 140° to 145° Fah.; or, for not less than fifteen minutes at a temperature of from 145° to 150° Fah. When milk is heated above 150° Fah. certain ferments and other constituents of the milk are more or less altered, and the digestibility of the resultant milk is injuriously affected.

4. *Sterilized Milk*, is milk that has been heated at the temperature of boiling water, or higher, for a length of time sufficient to kill all organisms present; and must be delivered to the consumer in a sterile condition. Sterilized milk shall not be sold, or offered for sale, except in hermetically closed containers, bearing the words 'This milk should be used within twelve (12) hours after opening the container.'

5. *Certified Milk*. Milk sold as certified milk, shall comply with the following requirements:—

- (a) It shall be taken from cows semi-annually subjected to the tuberculin test, and found without reaction.
- (b) It shall contain not more than 10,000 bacteria per cubic centimetre from June to September; and not more than 5,000 bacteria per cubic centimetre from October to May, inclusive.
- (c) It shall be free from blood, pus, or disease-producing organisms.
- (d) It shall be free from disagreeable odour or taste.
- (e) It shall have undergone no pasteurization or sterilization, and be free from chemical preservatives.
- (f) It shall have been cooled to 45°F., within half an hour after milking, and kept at that temperature until delivered to the consumer.
- (g) It shall contain 12 to 13 per cent of milk solids, of which, at least, 3·5 per cent is fat.
- (h) It shall be from a farm whose herd is inspected monthly by the veterinarian, and whose employees are examined monthly by a physician.

NOTE.—It is evident that the weight carried by the term 'certified' will depend upon the character of the organization which assumes responsibility. Doubtless this will usually be a local medical association; but there is nothing to prevent any responsible body of properly qualified persons from undertaking the production of certified milks.

It is difficult to see in what manner the Adulteration Act can be made to apply to the case of certified milk, except in the sense of requiring that a definite food material must be true to name.

The requirements above enumerated are such that their complete fulfilment can only be properly vouched for by a local system of inspection, not provided for by the Adulteration Act; the history of milk certification, in the sense described, suffices to prove the great benefits conferred upon a community which adopts such a method of ensuring a pure product for the use of infants and invalids; and the Department of Inland Revenue, in administering the Adulteration Act, will do everything possible to assist in securing the maintenance of the high standard for certified milk which has been set by medical commissions, as above defined. At the same time, it is recognized that the efficient carrying out of this programme must chiefly rest with the local commission.

6. *Evaporated Milk*, 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 milk fat.

7. *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.

8. *Condensed Skim Milk* is skim milk from which a considerable portion of water has been evaporated, with or without the addition of sugar.

9. *Buttermilk* is the product that remains when butter is separated from ripened cream, by the usual churning processes; or a similar product, made by the appropriate treatment of skimmed milk.

10. *Goat's Milk*, *Ewe's Milk*, &c., are the fresh, clean, lacteal secretions, free from colostrum, obtained by the complete milking of healthy animals other than cows, properly fed and kept, and conform in name to the species of animals from which they are obtained.

#### CREAM.

1. *Cream* is that portion of milk, rich in milk fat, which rises to the surface of milk on standing, or is separated from it by centrifugal force, is fresh and clean, and contains (unless otherwise specified), not less than eighteen (18) per cent, of milk fat.

2. *When Guaranteed to Contain* another percentage of milk fat than eighteen (18) per cent, it must conform to such guarantee.

3. *Cream* must be entirely free from gelatine, sucrate of lime, gums or other substances added with a view to give density, consistency or apparent thickness to the article.

4. *Cream* must contain no preservatives of any kind, nor any colouring matter, other than is natural to milk.

5. *Evaporated Cream*, *Clotted Cream*, *Condensed Cream* or any other preparation purporting to be a special cream, except ice-cream, must conform to the definition of cream, and must contain at least twenty-five (25) per cent of milk fat.

#### MILK FAT OR BUTTER FAT.

1. *Milk Fat*, *Butter Fat*, is the fat of milk and has a Reichert-Meisel number not less than twenty-four (24) and a specific gravity not less than  $0\cdot905_{40^{\circ}\text{C}}^{40^{\circ}\text{C}}$

#### BUTTER.

1. *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 eighty-two and five-tenths (82·5) per cent milk fat, and not more than sixteen (16) per cent, of water. Butter may also contain added colouring matter of harmless character.

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## CHEESE.

1. *Cheese* is the sound, solid, and ripened product made from milk or cream by coagulating the casein thereof with rennet or lactic acid, with or without the addition of ripening ferments and seasoning, and contains in the water-free substance, not less than forty-five per cent of milk fat. Cheese may also contain added colouring matter of harmless character.

2. *Skim Milk Cheese* is the sound, solid, and ripened product made from skim milk by coagulating the casein thereof with rennet or lactic acid, with or without the addition of ripening ferments and seasoning.

3. *Goat's Milk Cheese, Ewe's Milk Cheese, &c.*, are the sound, ripened products made from the milks of the animals specified, by coagulating the casein thereof with rennet or lactic acid with or without the addition of ripening ferments and seasoning.

## ICE-CREAM.

1. *Ice-Cream* is a frozen product, made from cream and sugar, with or without harmless flavouring and colouring materials, and with or without gelatin, gum tragacanth, or other harmless stiffening materials, in amount less than two (2) per cent; and contains not less than fourteen (14) per cent of milk fat.

2. *Fruit Ice-Cream* is a frozen product, made as described under ice-cream, but containing sound, clean, and mature fruit. It must contain not less than twelve (12) per cent of milk fat.

3. *Nut Ice-Cream*, is a frozen product, made as described under ice-cream, but containing sound, non-rancid nuts. It must contain not less than twelve (12) per cent of milk fat.

## MISCELLANEOUS MILK PRODUCTS.

1. *Whey* is the product remaining after the removal of fat and casein from milk in the process of cheese making.

2. *Kumiss* is the product made by the alcoholic fermentation of mare's milk or cow's milk.

3. *Milk Powder* is 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.

4. *Skim Milk Powder, Separated Milk Powder* is the soluble powder product made from skim milk, and contains not less than ninety-five (95) per cent of milk solids.

A. MCGILL.

Ottawa, April 7, 1910.

## APPENDIX D.

## BULLETIN No. 209—SPIRITUS MENTHÆ PIPERITÆ.

OTTAWA, June 15, 1910.

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

SIR,—I beg to hand you herewith the results of examination of 71 samples of Spirit of Peppermint, purchased throughout Canada in March of this year.

*Spiritus Menthæ Piperitæ* popularly known as Spirit of Peppermint, is thus prepared according to the British Pharmacopœia (Edn 1898):—

	Imperial.	Metric.
Oil of Peppermint .....	1 fl. ounce	50 cc
Alcohol (90 p.c.). ....	a sufficient quantity.	

To the oil of peppermint add enough of the alcohol to form 10 fluid ounces (or 500 cc) of the spirit of peppermint.

The spirit of peppermint of the British Pharmacopœia of 1885 contained only one-fifth as much oil of peppermint as the above.

The manufacture is very simple, being merely the solution of a proper quantity of the oil in alcohol of correct strength. Hence we find that spirit of peppermint is usually prepared by the local druggist.

Adulteration may consist in (1) using an adulterated oil of peppermint; (2) using incorrect proportion of oil of peppermint; (3) using alcohol of incorrect strength; (4) using wood alcohol (or methylated spirit) instead of ethyl alcohol; (5) using an ingredient not prescribed by the pharmacopœia, such as a dye.

1. Oil of peppermint is, for various reasons, less liable to adulteration than most essential oils. No special examination of the separated oil has been made, in the case of samples now reported.

2. The oil should constitute one-tenth part by volume of the finished preparation. The method of dilution and separation employed in this work is described by Leach (Food Inspection and Analysis, 2nd Edn. p. 865) and yields a very close approximation to the actual content of oil, as proved by working upon samples prepared in the laboratory. Thirty-one (31) samples, being 44 per cent of the total collection, were found to contain the proper amount of oil of peppermint. The remainder exhibit great carelessness in preparation, and 32 samples contain only 5 per cent of oil, or less than this amount.

3. Alcohol has been approximately determined from the specific gravity of the sample; and exceeds 80 per cent (volume) in 65 samples (92 per cent of the collection).

4. No methyl alcohol is present in any of these samples.

5. Only one sample (38667) is dyed, with an aniline dye. Several samples contain small amounts of turmeric.

It is proper to observe that the above samples were obtained in drug shops, and are, therefore assumed to represent the pharmacopœial preparation.

A spirit or essence of peppermint is used in the kitchen as a flavour in candy making, and for other purposes. Such an article is in reality a flavouring extract, and should not be offered by a druggist, as being identical with the spirit of peppermint of the pharmacopœias. It is possible that samples 38667, 38669, 996, 40417, 42926, 44252, and some others which contain alcohol of distinctly less than prescribed strength, may



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have been intended by the manufacturer, as *flavouring extracts* rather than as pharmacopœial preparations. Indeed, in the case of one of these (No. 42926) the vendor stated that the article sold, was not the spirit of peppermint of the pharmacopœia. This statement, however, was not made until the sale was completed.

It may be permitted to me to observe that the very indefinite and miscellaneous character of the stocks carried in modern drug shops, has the disadvantage of making these less distinctively apothecary shops than was the case formerly. Many modern drug shops might, with equal propriety be classed as candy shops, refreshment counters, tobacconists, &c. That a druggist should carry peppermint flavouring extract, as well as the B. P. article, need cause us no surprise. It would be folly to inveigh against modern innovations, which may be the natural trend of things in course of betterment. But so long as the distinctive name drug shop is retained, I think it not too much to require that the salesman should be familiar with the preparations of the British Pharmacopœia, and that he should not be permitted to supply other than pharmacopœial preparations, when a customer asks for such, under a name recognized by the pharmacopœia. Spirit of peppermint, or *spiritus menthe piperitæ* is a perfectly definite article, having legally recognized composition, and although its nature is such that no particular danger to health is likely to result from the substitution of a flavouring extract of peppermint, yet the same carelessness which permits the substitution, might, in other cases, be followed by very serious consequences.

It will be noted that many of the samples are labelled as essences. This term is not recognized by the British Pharmacopœia, nor by that of the United States of America. The French Codex Medicamentarius uses the word essence as synonymous with essential oil; thus *Essence de Menthe Poivrée* is equivalent to our *Menthe piperitæ Oleum*. It would therefore appear to be quite wrong to label spirit of peppermint as an essence. The word is undoubtedly homologous with the term essential oil, if not identical in meaning, and should be so used. In accepting a sample distinctly labelled 'Essence of Peppermint' our inspectors are at fault, unless they were definitely informed by the vendor that the article supplied was so supplied as equivalent to the spirit of peppermint, or *spiritus menthe piperitæ* which they were instructed to purchase.

This is the first time that the article named has been officially inspected under the Act; and I beg respectfully to recommend the publication of this report as Bulletin 209.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,  
*Chief Analyst.*

## BULLETIN No. 209—SPIRITUS MENTHÆ PIPERITÆ.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.			
				Quantity.	Cents.		Sp. gr. of Sample.	Equivalent in alcohol (By Vol.)	Separated Oil.	Colour, &c.

## DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR

1910.												
Mar.	10	Spiritus Menthae Piperitae.	41936	A. A. Thompson, Halifax, N.S.	12 oz.	1.00	Vendor	0.8282	91.69	10.0	White.	41936
"	10	"	41937	M. D. Logan, Halifax, N.S.	12 "	1.00	"	0.8342	89.83	10.0	"	41937
"	10	"	41938	Irwin & Sons, Halifax, N.S.	12 "	.90	Vendors.	0.8328	90.35	10.0	Pale yellow- ish green.	41938
"	10	"	41939	J. S. Coombes & Co., Halifax,	12 "	.90	Vendor	0.8290	91.46	10.0	White and turbid.	41939
"	10	"	41940	G. McDougall, Kentville, N.S.	12 "	.90	"	0.8338	90.65	10.0	White.	41940

## DISTRICT OF PRINCE EDWARD ISLAND—THEO. MOORE, INSPECTOR.

Mar.	9	Spiritus Menthe Piperite.	38666 E. Keir, Kensington.	12 oz.	.90	Vendor	0.8347	90.96	10.0	White	38666
"	10	"	38667 McNeill Drug Co., Summerside	12 "	1.20	Pure Gold Co., Toronto.	0.9268	53.81	About 3.0	Bright green	*38667
"	15	"	38668 H. J. Mabon, Souris.	12 "	1.00	Vendor	0.8309	90.90	5.0	Whitish yellow.	38668
"	15	"	38669 Dr. A. A. McDonald, Souris.	12 "	1.00	Nat. Drug & Chem. Co., Halifax.	0.8783	74.59	About 3.5	Greenish.	38669
"	17	"	38670 A. W. Reddin, Charlottetown.	12 "	1.00	Vendor	0.8483	85.49	7.0	Yellow.	38670



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## DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.

Mar.	4	Spiritus Menthe Piperitæ.	39680	The Nat. Drug & Chem. Ld., St. John, N.B.	12 oz.	1.05	The Nat. Drug & Chem. Co. Ltd., Montreal.	.....	0.8265	92.21	About 3.0	Brownish green.	39680
"	15	"	39681	Chas. A. Burchill, Fredericton, N.B.	12 "	1.20	Vendor.....	.....	0.8318	90.64	10.0	White.....	39681
Apr.	5	"	39682	B. J. Sharp, Sussex, N.B.	12 "	90	"	.....	0.8357	89.49	5.0	Pale yellow.	39682
"	5	"	39683	G. M. Fairweather, Sussex, N.B.	12 "	1.00	"	.....	0.8318	90.64	10.0	Greenish yellow.	39683
"	6	"	39684	Acadia Drug Co., Moncton, N.B.	12 "	1.00	Vendors.	.....	0.8364	89.27	5.0	Yellow.	39684

## DISTRICT OF QUEBEC—E. BELAND, INSPECTOR.

Mar.	9	Spiritus Menthe Piperitæ.	36548	V. Giroux, 16 Rue St. Pierre, Quebec.	12 oz.	1.20	Vendor.....	.....	0.8451	86.52	10.0	White.....	36548
"	9	"	36549	G. P. Plamondon, 122 Rue St. Joseph, Quebec.	12 "	1.20	"	.....	0.8250	92.66	5.0	Yellowish white.	36549
"	9	"	36550	W. B. Roger, 44 Rue de la Fa- brique, Quebec.	12 "	1.20	"	.....	0.8228	93.29	2.0	White.....	36550
"	9	"	36551	Lachevrotière, 254 Rue St. Jean, Quebec.	12 "	1.20	"	.....	0.8410	87.85	5.0	"	36551
"	9	"	36552	C. T. Delisle, 350½ Rue St. Jean, Quebec.	12 "	1.20	"	.....	0.8405	88.00	10.0	"	36552

## DISTRICT OF ST. HYACINTHE—J. C. ROULEAU, INSPECTOR.

Mar.	9	Spiritus Menthe Piperitæ.	995	Pharmacie Mâssicotte Victoria ville.	12 oz.	1.50	Vendors.	.....	0.8288	91.52	7.0	White.....	995
"	10	"	996	Pharmacie Chagnon, Sherbrooke.	12 "	85	"	.....	0.9067	62.93	3.0	"	996
"	15	"	997	Dr. Verdun, Granby.....	12 "	90	Vendor.	.....	0.8348	89.75	3.0	"	997
"	16	"	998	G. H. Johnston, Cowansville.....	12 "	1.00	"	.....	0.8573	82.44	10.0	Pale yellow.	998
"	18	"	999	Dr. Viger, St. Hyacinthe.....	12 "	90	"	.....	0.8341	89.96	7.0	White.....	999

\* Aniline dya present.

## BULLETIN No. 209—SPIRITUS MENTHÆ PIPERITÆ.

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.	RESULTS OF ANALYSIS.				No. of Sample.
				Quantity.	Cents.		Sp. gr. of Sample.	Equivalent in alcohol (By Vol.)	Separated Oil.	Colour, &c.	

## DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.

1910.											
Mar.	3 Spiritus Menthae Piperitæ.	40417	Quebecville & Guerin, 397 St. 12 oz.	60	Vendors.	.....	0.9377	48.37	*	White.	40417
"	5 "	40418	Antoine St., Montreal.	75	Vendor.	.....	0.8383	88.67	5.0	"	40418
"	5 "	40419	Inc E., Montreal.	1.00	"	.....	0.8265	91.21	5.0	"	40419
"	12 "	40420	E. Vachoncourt, 539 St. 12 oz.	75	"	.....	0.8253	92.57	2.0	"	40420
"	12 "	40421	Catherine E., Montreal.	1.25	"	.....	0.8454	86.48	3.0	"	40421

## DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.

Mar.	1 Spiritus Menthae Piperitæ.	42926	R. B. Gray, Pembroke.	12 oz.	90	Vendor	.....	0.9183	75.79	About 3.5	Deep yellow	42926
"	8 "	42927	J. L. Rochester, Ltd., Ottawa.	12 "	1.20	Vendors.	.....	0.8323	90.49	10.0	White.	42927
"	8 "	42928	T. Payment, Ottawa.	12 "	1.20	Vendor.	.....	0.8286	91.57	10.0	"	42928
"	10 "	42929	R. S. Harrison, Ottawa.	12 "	1.00	"	.....	0.8279	91.78	2.0	Pale yellow.	42929
"	16 "	42930	Jos. P. Valiquette, Ottawa.	12 "	1.20	"	.....	0.8278	91.81	5.0	White.	42930

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## DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.

Mar.	1	Spiritus Menthe Piperitæ.	44251	F. Hoag, Kingston.	12 oz.	1.20	Vendor.	.....	0.8311	90.85	10.0	White.	44251
"	1	"	44252	C. S. Prouse, Kingston.	12 "	.75	"	.....	0.8902	69.84	2.0	Yellow	44252
"	1	"	44253	J. McLeod, Kingston.	12 "	1.20	"	.....	0.8334	90.17	5.0	"	44253
"	1	"	44254	A. P. Chown, Kingston.	12 "	1.00	"	.....	0.8480	85.59	2.0	White and cloudy.	44254
"	4	"	44255	McDermid & Jury, Peterboro.	12 "	1.05	Vendors.	.....	0.8289	91.49	7.5	White.	44255

## DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

Mar.	3	Spiritus Menthe Piperitæ.	41492	E. L. Doane, 1658 Dundas St. E., W. Toronto.	12 oz.	1.10	Vendor.	.....	Labelled Spes. Menthe Pip.	0.8296	91.28	10.0	White	41492
"	4	"	41493	F. E. York, Aurora.	12 "	1.00	"	.....	Labelled Spes. Menthe Pip. B. P.	0.8327	90.38	10.0	"	41493
"	8	"	41494	Hawkins Ltd., John St. South Hamilton.	12 "	.75	Vendors.	.....	Labelled Ess. Menthe Pip.	0.8275	91.90	2.0	Yellow	41494
"	16	"	41496	R. M. Black, 15 Ontario St., Catharines.	12 "	.75	Vendor.	.....	Labelled Spes. Menthe Pip. Vendor stated strength was 1 in 50.	0.8228	93.29	2.0	Pale yellow	41496
"	18	"	41497	G. Tambllyn, College Ave., Toronto.	12 "	.90	"	.....	Labelled Spes. Menthe Pip.	0.8259	92.39	10.0	Green.	41497

## DISTRICT OF LONDON—T. KIDD, INSPECTOR.

Mar.	15	Spiritus Menthe	44730	Dunlop Druggist, Goderich.	6 oz.	.60	Vendor.	.....	.....	0.8232	91.40	10.0	White.	44730
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## DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.

Mar.	5	Essence Peppermint.	42518	W. T. Strong, London.	12 oz.	1.20	Vendor.	.....	.....	0.8303	91.08	7.5	White	42518
"	7	"	42519	P. J. McGibbon, Sarnia.	12 "	1.05	"	.....	.....	0.8307	90.96	5.0	Pale yellow.	42519
"	7	"	42523	R. J. Geary, Sarnia.	12 "	1.20	"	.....	.....	0.8290	91.46	5.0	"	42523
"	8	"	42530	Jackson & Co., Petrolia.	12 "	1.00	Vendors.	.....	.....	0.8236	93.06	5.0	White	42530
"	9	"	42538	Geo. A. Small, St. Thomas.	12 "	1.00	Vendor.	.....	.....	0.8252	92.60	5.0	"	42538

\* None but smells of peppermint.

## BULLETIN No. 209—SPIRITUS MENTHÆ PIPERITÆ.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.
				Quantity.	Cents.		Sp. gr. of Sample.	Equivalent in alcohol (By Vol.)	Separated Oil.	Colour, &c.	

## DISTRICT OF MANITOBA—A. C. LARIVIERE, INSPECTOR.

1910.											
Mar. 16	Spiritus Menthae Piperitæ.	43406	R. T. Butchart, Minnedosa.	12 oz.	1.50	Vendor	0.8298	91.23	10.0	Yellowish green.	43406
" 16	"	43407	Glenboro Drug Store, Glenboro.	12 "	1.25	Norman B. Henery, Glenboro.	0.8284	91.63	10.0	Green.	43407
" 21	"	43408	W. Collins & Co., Morden.	12 "	1.00	Vendors.	0.8275	91.90	5.0	White.	43408
" 23	"	43409	P. F. Braund, Winnipeg.	12 "	1.20	The Bale Drug Co., Winnipeg.	0.8296	91.28	10.0	"	43409
" 24	"	43410	A. J. Brown & Co., Winnipeg.	12 "	1.20	Vendors.	0.8295	91.31	10.0	"	43410

## DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR.

Mar. 8	Spiritus Menthae Piperitæ.	35677	A. Archibald, Edmonton.	12 oz.	1.25	Vendor.	0.8302	91.11	8.0	White.	35677
" 8	"	35678	Macdonalds Pharmacy, Edmonton.	12 "	1.50	D. W. Macdonald, Edmonton.	0.8311	90.85	10.0	"	35678
" 15	"	35679	C. S. Pringle, Medicine Hat.	12 "	1.25	Vendor	0.8556	89.52	10.0	"	35679
" 15	"	35680	B. F. Souch, Medicine Hat.	12 "	1.25	"	0.8326	90.40	10.0	"	35680
" 16	"	35681	W. Maclean, Calgary.	12 "	1.25	"	0.8315	90.73	7.5	Green.	35681

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## DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.

Mar. 14	Spiritus Menthae Piperitae.	37843	Marrett & Reid, B.C.	Vanconver, B.C.	12 oz.	1.25	Vendors.	0.8299	91.20	10.0	White.	37843
" 14	"	37844	Woodwards Dept. cover, B.C.	Store, Vanconver, B.C.	12 " 1.50	"	"	0.8318	90.61	8.0	"	37844
" 14	"	37845	Red Cross cover, B.C.	Drug Store, Vanconver, B.C.	12 " 2.25	Vendor.	"	0.8307	90.96	4.0	Yellowish green.	37845
" 14	"	37846	Red Raven cover, B.C.	Drug Store, Vanconver, B.C.	12 " 1.50	"	"	0.8306	90.99	5.0	"	37846
" 11	"	37847	Wilson's Drug Store, B.C.	Vanconver, B.C.	12 " 1.50	"	"	0.8607	81.12	3.0	White	37847

## DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.

Mar. 18	Spiritus Menthae Piperitae.	41639	F. J. Williams, B.C.	Victoria, B.C.	12 oz.	1.25	Vendor.	0.8306	90.99	10.0	White.	41639
" 18	"	41670	W. S. Terry, B.C.	Victoria, B.C.	12 " 75	"	"	0.8362	89.33	10.0	"	41670
" 18	"	41671	Hall & Co., B.C.	Victoria, B.C.	12 " 1.50	Vendors.	"	0.8326	90.40	10.0	"	41671
" 18	"	41672	Wm. Jackson & Co., B.C.	Victoria, B.C.	12 " 1.25	"	"	0.8325	90.13	10.0	"	41672
" 18	"	41673	Geo. A. Fraser, B.C.	Victoria, B.C.	12 " 1.25	Vendor.	"	0.8335	90.14	10.0	"	41673

*NOTE.*

Vendors are responsible for the accuracy of information furnished by them to the official Food Inspectors of this Department. If through ignorance, carelessness, or for other cause, they make false statements, involving injury to manufacturers, the manufacturers so injured may exact indemnification by legal process.

A sample of White Pepper, sold by Cameron & Downing, Vankleek Hill, Ont., was stated by them to have been furnished by the Pure Gold Manufacturing Co. Ltd., Toronto. They have since made the following statement :—

“ This certifies that we did not purchase at any time or receive from the Pure Gold Mfg. Co. Ltd., Toronto, White Pepper, and that the reference in Bulletin 203, page 10, sample No. 42801 (Pepper), issued by the Department of Inland Revenue, is inaccurate in stating that the said white pepper was obtained by us from the Pure Gold Mfg. Co. Ltd. ”

Dated at Vankleek Hill this Thirtieth (30) day of June, 1910.

(Signed) CAMERON & DOWNING,

In the presence of D. J. COUTURE.

Mr. John T. Conway of Perth, Ont., acknowledges misstatement to our Inspector of the facts regarding a sample of White Pepper, as follows :—

“ This certifies that I did not purchase or receive from the Pure Gold Mfg. Co. Ltd., Toronto, any White Pepper during the term between December 31st, 1907, to October 1st, 1909, and that the reference in Bulletin 203, page 10, sample No. 42803 (Pepper), issued by the Department of Inland Revenue, is inaccurate in stating that the said White Pepper was obtained by me from the Pure Gold Mfg. Co. Ltd.”

Dated at Perth this Eleventh day of July.

(Signed) JOHN T. CONWAY,

In the presence of A. J. GIBSON.



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## APPENDIX E.

## BULLETIN No. 210 — LINIMENT OF CHLOROFORM LINIMENTUM CHLOROFORMI

W. J. GERALD, Esq.,

Deputy Minister of Inland Revenue.

OTTAWA, June 21, 1910.

SIR, —I beg to hand you a report upon the examination of 72 samples, purchased throughout Canada in February, March and April of the present year, as Liniment of Chloroform.

The British Pharmacopœia directs this liniment to be prepared from equal parts of Chloroform and Liniment of Camphor. According to Squire's Companion (p.375) it should have a specific gravity of 1.212, and should yield a residue of about 37 per cent. Liniment of Camphor is a solution of 1 part of camphor in 4 parts of Olive Oil. The fixed residue above referred to, as characteristic of Liniment of Chloroform, consists of the Olive Oil introduced with the Liniment of Camphor.

It is sufficiently evident that all the samples now reported have been intended to conform to the requirements of the British Pharmacopœia; (1) in which case the Linimentum Camphoræ employed should be that of the B. P. This is important, since the Linimentum Camphoræ of the U.S.P., although having the same content of camphor, is directed to be made with Cotton Seed Oil instead of Olive Oil.

All but 17 samples of the 72 samples now reported, contain Cotton Seed Oil, and have therefore been prepared with an adulterated Olive Oil, or with the Camphor Liniment of the United States Pharmacopœia.

There can be little doubt that Cotton Seed Oil is a satisfactory substitute for Olive Oil in camphor liniment; nevertheless I am compelled to declare all the samples of Liniment of Chloroform containing Cotton Seed Oil technically adulterated, since the British Pharmacopœia expressly requires Olive Oil to be used, in the preparation of Camphor liniment. This liniment is made with Olive Oil in most European countries; but Portugal employs Almond Oil; Austria, Hungary and Russia, Sesame Oil. The United States of America is the only country authorizing the use of Cotton Seed Oil; and it would appear that, in each country a selection of a suitable oil native to that country, or most easily obtainable in it, is made.

As this is the first time that Liniment of Chloroform has been inspected under the Adulteration Act; and, as further the adulteration found is for the most part of a purely technical kind, and not detrimental to the efficiency of the article as a drug, I would respectfully recommend that no prosecutions be instituted upon the present report.

A word of warning to the drug trade may be permitted. So long as the British Pharmacopœia is our legal standard of reference, its requirements should be followed to the letter. It goes without saying that tampering with drugs is a thing that cannot be tolerated. While some of these, as in the present instance, are not so potent as to make slight variation in composition a matter of great moment, the rule is that danger to health, or even to life, is incurred by failure to maintain exact observance in their preparation. It is due to the physician, as well as to the patient, that the articles he prescribes should absolutely correspond to pharmacopœal requirements.

I would further recommend the publication of this report as Bulletin No 210.

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

A. MCGILL, *Chief Analyst.*

(1) The Linimentum Chloroformi U.S.P., is prepared from soap liniment and chloroform in the ratio 7:3. Soap Liniment U.S.P., has the following composition:—

	grainmes.
Soap (dried and granulated).....	60
Camphor.....	45
Oil of Rosemary.....	10 cc.
Alcohol.....	725 cc.
Water.....	Q.S.

To make.... 1000 cc.

This would give 4.2 per cent residue (soap) and 30 p.c. chloroform to the Linimentum Chloroformi of U.S.P., with 3.15 p.c. camphor, instead of 10 per cent as in B.P.

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BULLETIN No. 210—

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.	

## DISTRICT OF NOVA SCOTIA—

1910.						
Mar. 9	Linimentum Chloroformi.	41931	Nat. Drug & Chem. Co., Halifax.	12 oz.	1.00	Vendor.....
" 9	"	41932	W. F. Porter, Bridgewater, N.S.	12 "	1.30	" .....
" 9	"	41933	Taylor Drug Co., Bridgewater, N.S.	12 "	1.20	" .....
" 9	"	41934	J. D. Clark, Kentville.....	12 "	1.00	" .....
" 9	"	41935	A. V. Rand, Wolfville.....	12 "	1.00	" .....

## DISTRICT OF PRINCE EDWARD ISLAND—

Mar. 10	Linimentum Chloroformi.	38661	T. N. Enman, Summerside..	12 oz.	1.20	Vendor .....
" 10	"	38662	A. W. P. Gourlie, Summerside.	12 "	1.00	" .....
" 12	"	38663	McDonald & McKinnon, Charlottetown.	12 "	1.20	Vendors.....
" 12	"	38664	McKinnon Drug Co., Charlottetown.	12 "	1.20	" .....
" 15	"	38665	H. Y. Mabon, Souris.....	12 "	1.20	Vendor.....

## DISTRICT OF NEW BRUNSWICK—

Mar. 4	Linimentum Chloroformi.	39675	Nat. Drug & Chem. Co., Ltd., St. John, N.B.	12 oz.	1.29	Nat. Drug & Chem. Co., Montreal.
" 15	"	39676	R. T. Mack, Fredericton, N.B.	12 "	1.20	Vendor.....
" 16	"	39677	Garden Bros., Woodstock, N.B.	12 "	1.20	Vendors.....
Apr. 6	"	39678	Fairweather Bros, Moncton.	12 "	1.60	" .....
" 6	"	39679	G. O. Spencer, Moncton.....	12 "	.90	Vendor.....

## DISTRICT OF QUEBEC—

Mar. 9	Linimentum Chloroformi.	36543	Dr. Gagnon, 30 Rue St. Pierre Quebec.	12 oz.	1.20	Vendor.....
" 9	"	36544	V. Giroux, 16 Rue St. Pierre, Quebec.	12 "	1.20	" .....
" 9	"	36545	W. B. Roger, 41 Rue de la Fabrique, Quebec.	12 "	1.20	" .....
" 9	"	36546	T. Dube, 28 Rue St. Jean, Quebec.	12 "	1.20	" .....
" 9	"	36547	G. P. Plamondon, 122 Rue St. Joseph, Quebec.	12 "	1.20	" .....

SESSIONAL PAPER No. 14

## LINIMENTUM CHLOROFORMI.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. of Sample.	Refraction of		Residual Oil.	Volatile Matter.	Camphor.	Chloroform.	Cotton Seed Oil test.		
		Sample.	Residue.							

R. J. WAUGH, INSPECTOR.

				p. c.	p. c.	p. c.	p. c.			
.....	1·2091	1·4604	1·4762	33·68	66·32	8·8	57·5	Present	41931	Adulterated with cotton seed oil.
Made according to B.P. 1891.	1·2090	1·4611	1·4760	32·18	67·82	8·8	59·0	"	41932	"
.....	1·1902	1·4594	1·4770	33·35	66·65	9·6	57·0	"	41933	"
.....	1·1863	1·4623	1·4753	42·62	57·38	1·6	55·7	"	41934	Adulterated with cotton seed oil and too low in camphor
.....	1·2110	1·4581	1·4714	32·39	67·61	8·0	55·6	"	41935	"

THEO. MOORE, INSPECTOR.

				p. c.	p. c.	p. c.	p. c.			
.....	1·2071	1·4577	1·4703	32·81	67·19	6·4	60·78	...	38661	Too low in camphor.
.....	1·2023	1·4595	1·4742	30·15	69·85	8·0	61·8	Present	38662	Adulterated with cotton seed oil.
.....	1·1977	1·4604	1·4742	32·09	67·91	9·6	58·3	"	38663	"
.....	1·2143	1·4592	1·4732	30·02	69·98	8·8	61·1	"	38664	"
.....	1·2047	1·4614	1·4742	33·34	66·66	8·0	58·6	"	38665	"

J. C. FERGUSON, INSPECTOR.

				p. c.	p. c.	p. c.	p. c.			
.....	1·1973	1·4594	1·4720	31·63	68·37	8·8	59·5	Present	39675	Adulterated with cotton seed oil.
.....	1·2051	1·4601	1·4720	32·31	67·69	9·2	58·4	"	39676	"
.....	1·1722	1·4628	1·4703	36·52	63·48	11·2	52·2	"	39677	"
.....	1·2092	1·4599	1·4723	31·90	68·10	9·8	58·3	"	39678	"
.....	1·2254	1·4602	1·4748	31·04	68·96	7·6	61·3	"	39679	"

E. BELAND, INSPECTOR.

				p. c.	p. c.	p. c.	p. c.			
.....	1·2214	1·4606	1·4752	32·64	67·36	6·8	60·5	Present	36543	Adulterated with cotton seed oil and camphor too low.
.....	1·2939	1·4592	1·4704	34·67	65·33	7·2	58·1	.....	36544	Camphor too low.
.....	1·2229	1·4617	1·4772	29·49	70·51	10·8	59·7	Present	36545	Adulterated with cotton seed oil.
.....	1·1186	1·4620	1·4753	35·28	64·72	10·4	54·3	"	36546	"
.....	1·1977	1·4610	1·4748	35·21	64·79	7·2	57·5	"	36547	Adulterated with cotton seed oil and low in camphor.

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BULLETIN No. 210—

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.	

## DISTRICT OF ST. HYACINTHE—

1910.						
Mar. 3	Linimentum Chloroformi.	989	F. C. Saunders, Bedford....	12 oz.	1.25	Vendor . . . . .
" 8	" ..	990	Smith & Smith, Nicolet....	12 "	75	Vendors.. . . .
" 10	" ..	991	Pharmacie Drolet, Coaticook.	12 "	1.00	Vendor . . . . .
" 16	" ..	992	Dr. A. G. H. Berique, Magog	12 "	75	" . . . . .
" 17	" ..	993	Pharmacie Guy, St. Jean ..	12 "	1.25	" . . . . .

## DISTRICT OF MONTREAL

Mar. 5	Linimentum Chloroformi.	40422	Henri Lanctot, 295 St. Catherine E., Montreal.	12 oz.	1.00	Vendor . . . . .
" 5	" ..	40423	J. A. E. Gauvin, St. Catherine E., Montreal.	12 "	75	" . . . . .
" 5	" ..	40424	Arthur Maillet, 621 Craig St. Montreal.	12 "	1.00	" . . . . .
" 8	" ..	40425	B. Fox, 168 St. Lawrence B. Montreal.	12 "	1.25	" . . . . .
" 12	" ..	40426	O. T. Pinck, 207 McGill St. Montreal.	12 "	75	" . . . . .

## DISTRICT OF OTTAWA—

Feb. 28	Linimentum Chloroformi.	42901	P. J. Nolan, Ottawa .....	12 oz.	1.25	Vendor . . . . .
Mar. 4	" ..	42902	The Medical Hall, Cornwall.	12 "	80	" . . . . .
" 5	" ..	42903	W. F. Garland, Ottawa.. . . .	12 "	1.20	" . . . . .
" 9	" ..	42904	Beattie & Argue, Ottawa...	12 "	1.20	Vendors.....
" 10	" ..	42905	E. R. DesRosiers, Ottawa...	12 "	1.20	Vendor . . . . .

## SESSIONAL PAPER No. 14

## LINIMENTUM CHLOROFORMI.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.							No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Sp. gr. of Sample.	Refraction of		Residual Oil.	Volatile Matter.	Camphor.	Chloroform.			Cotton Seed Oil test.
		Sample.	Residue.							

## J. C. ROULEAU, INSPECTOR.

				p. c.	p. c.	p. c.	p. c.			
.....	1.2061	1.4596	1.4700	31.98	68.02	10.9	57.1	.....	989	Genuine.
.....	0.9755	1.4707	1.4733	86.28	13.72	0.0	13.7	Present	990	Adulterated with cotton seed oil and contains no camphor and too little chloroform.
.....	1.2099	1.4596	1.4731	32.79	67.21	7.8	59.4	"	991	Adulterated with cotton seed oil.
.....	1.2008	1.4610	1.4749	34.80	65.20	7.5	57.7	"	992	"
.....	1.1027	1.4653	1.4735	58.24	41.76	0.0	41.7	"	993	Adulterated with cotton seed oil and contains no camphor.

## J. J. COSTIGAN, INSPECTOR.

.....	1.2063	1.4612	1.4753	35.58	64.42	7.6	56.8	Present	40422	Adulterated with cotton seed oil.
.....	1.2068	1.4611	1.4748	34.14	65.86	6.4	59.4	"	40423	Adulterated with cotton seed oil and too low in camphor.
.....	1.1662	1.4629	1.4743	43.03	56.97	4.4	52.5	"	40424	"
.....	1.1972	1.4609	1.4757	32.95	67.05	9.6	57.4	"	40425	Adulterated with cotton seed oil.
.....	1.1890	1.4613	1.4758	31.62	68.38	4.8	63.5	"	40426	Adulterated with cotton seed oil and too low in camphor.

## J. A. RICKEY, INSPECTOR.

.....	1.1583	1.4609	1.4700	37.22	62.78	12.0	50.7		42901	Genuine.
After purchase of Sample, Vendor stated it was made with Union Salad Oil.	1.1941	1.4612	1.4775	35.17	64.83	8.0	56.8	Present	42902	Adulterated with cotton seed oil.
.....	1.1547	1.4628	1.4738	44.32	55.68	6.0	49.6	"	42903	Adulterated with cotton seed oil and low in camphor.
.....	1.2054	1.4604	1.4750	32.61	67.39	9.6	57.7	"	42904	Adulterated with cotton seed oil.
.....	1.2103	1.4603	1.4745	36.30	63.70	4.8	58.8	"	42905	Adulterated with cotton seed oil and low in camphor.



2 GEORGE V., A. 1912  
BULLETIN No. 210—

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.	

## DISTRICT OF KINGSTON—

1910.						
Mar.	1	Linimentum Chloroformi.	44246 F. Hoag, Kingston. ....	12 oz.	1.20	Vendor .....
"	1	"	44247 C. S. Prouse, Kingston. ....	12 "	1.20	" .....
"	1	"	44248 J. McLeod, Kingston. . . .	12 "	1.20	" .....
"	1	"	44249 A. P. Chown, Kingston. ....	12 "	1.20	" .....
"	4	"	44250 E. L. Payne, Peterboro. ....	12 "	1.00	" .....

## DISTRICT OF TORONTO—

Mar.	2	Linimentum Chloroformi.	41487 A. E. Walton, Queen St., Toronto.	3 bots.	75	Vendor .....
"	9	"	41488 W. A. Howell, King St., Hamilton.	12 oz.	75	" .....
"	16	"	41489 A. W. Garner & Co., St. Catharines.	12 "	70	" .....
"	16	"	41490 W. W. Kerr, Main St., Niagara Falls, S.	12 "	1.20	" .....
"	18	"	41491 G. Tamblyn, Young St. Toronto.	12 "	1.00	" .....

## DISTRICT OF LONDON—

Mar.	10	Linimentum Chloroformi.	44718 Alexander Steward, Guelph.	3 bots.	75	Vendor .....
"	12	"	44726 H. M. Myers, Stratford. ....	12 oz.	85	" .....

## DISTRICT OF WINDSOR—

Mar.	3	Linimentum Chloroformi.	42510 Anderson & Nelles, London. .	12 oz.	1.00	Vendors. ....
"	7	"	42522 Clement Drug Co., Sarnia. .	12 "	1.05	" .....
"	7	"	42528 G. G. Ingersoll, Sarnia. ....	12 "	1.00	Vendor .....
"	8	"	42532 W. H. Dale, Peterboro. . . .	12 "	1.00	" .....
"	9	"	42537 F. P. Reynolds, St. Thomas.	12 "	1.00	" .....



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## LINIMENTUM CHLOROFORMI.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Sp. gr. of Sample.	Refraction of		Residual Oil.	Volatile Matter.	Camphor.	Chloroform.	Cotton Seed Oil test.		
		Sample.	Residue.							

JAS. HOGAN, INSPECTOR.

				p. c.	p. c.	p. c.	p. c.			
.....	1·2073	1·4590	1·4747	34·84	65·16	8·0	57·1	Present	44246	Adulterated with cotton seed oil.
.....	1·2133	1·4617	1·4753	32·65	67·35	7·2	60·1	"	44247	Adulterated and low in camphor.
.....	1·1463	1·4612	1·4696	38·40	61·60	14·2	47·4	.....	44248	Genuine, and rather high in camphor.
.....	1·1535	1·4618	1·4721	35·11	64·89	13·6	51·2	Present	44249	Adulterated with cotton seed oil and rather high in camphor.
.....	1·1535	1·4597	1·4700	35·75	64·25	11·2	53·0	.....	44250	Genuine.

H. J. DAGER, INSPECTOR.

.....	1·2128	1·4597	1·4750	31·84	68·16	8·0	60·1	Present	41487	Adulterated with cotton seed oil.
.....	1·1965	1·4608	1·4738	40·19	59·81	1·6	58·2	"	41488	Adulterated with cotton seed oil and too low in camphor.
.....	1·2142	1·4606	1·4747	29·66	70·34	11·2	59·1	"	41489	Adulterated with cotton seed oil.
.....	1·1858	1·4618	1·4750	37·28	62·72	7·2	55·5	"	41490	Adulterated with cotton seed oil and low in camphor.
.....	1·2004	1·4611	1·4743	37·93	62·07	4·0	58·0	"	41491	"

T. KIDD, INSPECTOR.

.....	1·2120	1·4608	1·4757	31·12	68·88	9·6	59·2	Present	44718	Adulterated with cotton seed oil.
.....	1·2326	1·4581	1·4708	28·06	71·94	8·8	63·1		44726	A slight excess of chloroform and too little oil.

JNO. TALBOT, INSPECTOR.

.....	1·1921	1·4610	1·4752	30·82	69·18	12·0	57·1	Present	42510	Adulterated with cotton seed oil.
.....	1·2130	1·4593	1·4709	30·36	69·64	10·0	59·6	.....	42522	Genuine.
.....	1·2125	1·4589	1·4708	30·82	69·18	9·2	59·9	.....	42523	"
.....	1·2053	1·4598	1·4740	33·51	66·49	7·6	58·8	Present	42532	Adulterated with cotton seed oil.
.....	1·2121	1·4596	1·4758	30·68	69·32	10·0	59·3	"	42537	"

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.	

## DISTRICT OF MANITOBA—

1910.						
Mar. 16	Linimentum Chloroformi.	43401	The Speer Stevenson Co, Minnedosa.	12 oz.	75	Vendors.....
" 18	"	43402	Norman B. Henery, Glenboro	12 "	1.40	Vendor .....
" 21	"	43403	The Morden Pharmacy, Morden.	12 "	1.25	" .....
" 23	"	43404	P. F. Braund, Winnipeg....	12 "	1.20	The Bole Drug Co., Winnipeg.
" 23	"	43405	Austins Drug Store, Winnipeg.	12 "	1.80	Vendor .....

## DISTRICT OF CALGARY—

Mar. 8	Linimentum Chloroformi.	35672	A. Archibald, Edmonton....	12 oz.	75	Vendor .....
" 15	"	35673	C. S. Pringle, Medicine Hat.	12 "	75	" .....
" 15	"	35674	E. M. Cawker, Medicine Hat	12 "	1.00	" .....
" 15	"	35675	B. F. Souch, Medicine Hat..	12 "	75	" .....
" 15	"	35676	W. Maclean, Calgary.....	12 "	75	" .....

## DISTRICT OF VANCOUVER—

Mar. 12	Linimentum Chloroformi.	37838	Wood's Pharmacy, Vancouver, B.C.	12 oz.	1.50	Vendor .....
" 12	"	37839	Campbell Burns Drug Co., Vancouver, B.C.	12 "	1.50	Vendors.....
" 12	"	37840	W. E. Law, Granville St., Vancouver, B.C.	12 "	1.50	Vendor .....
" 12	"	37841	H. W. Ferguson, Vancouver, B.C.	12 "	1.50	" .....
" 12	"	37842	W. Harrison, Granville St., Vancouver, B.C.	12 "	1.50	" .....

## DISTRICT OF VICTORIA—

Mar. 18	Linimentum Chloroformi.	41664	F. J. Williams, Victoria, B.C.	12 oz.	1.50	Vendor .....
" 18	"	41665	W. S. Terry, Victoria, B.C..	12 "	1.00	" .....
" 18	"	41666	Hall & Co., Victoria, B.C....	12 "	1.50	Vendors.....
" 18	"	41667	Wm. Jackson & Co., Victoria, B.C.	12 "	1.50	" .....
" 18	"	41668	Geo. A. Fraser, Victoria, B.C	12 "	1.50	Vendor .....

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## LINIMENTUM CHLOROFORMI.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.							No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Sp. gr. of Sample.	Re'raction of		Residual Oil.	Volatile Matter.	Camphor.	Chloroform.			Cotton Seed Oil test.
		Sample.	Residue.							

## A. C. LARIVIERE, INSPECTOR.

				p. e.	p. e.	p. e.	p. e.		
.....	1.0649	1.4513	1.4698	44.21	55.79	8.6	47.1	.....	43401 Genuine.
.....	1.2328	1.4579	1.4698	32.15	67.85	2.4	65.4	.....	43402 Too low in camphor.
.....	1.1730	1.4619	1.4750	32.59	67.41	15.2	52.2	Present	43403 Adulterated with cotton seed oil and excess camphor.
.....	1.1425	1.4618	1.4700	40.35	59.65	12.4	47.2	.....	43404 Genuine.
.....	1.1541	1.4633	1.4752	36.56	63.44	15.2	48.2	Present	43405 Adulterated with cotton seed oil and excess of camphor.

## R. W. FLETCHER, INSPECTOR.

				p. e.	p. e.	p. e.	p. e.		
.....	1.1903	1.4607	1.4721	33.77	66.23	10.4	55.8	Present.	35672 Adulterated with cotton seed oil.
.....	1.2071	1.4612	1.4750	31.82	68.18	9.6	58.5	"	35673 " "
.....	1.2011	1.4612	1.4734	33.15	68.85	9.2	57.6	"	35674 " "
.....	1.1839	1.4603	1.4695	33.29	66.71	8.8	57.9	.....	35675 Genuine.
.....	1.1524	1.4630	1.4737	42.84	57.16	10.0	47.1	Present.	35676 Adulterated with cotton seed oil.

## J. F. POWER, INSPECTOR.

				p. e.	p. e.	p. e.	p. e.		
.....	1.2091	1.4609	1.4752	33.43	66.57	7.6	58.9	Present.	37838 Adulterated with cotton seed oil.
.....	1.1726	1.4607	1.4703	34.83	65.17	13.2	51.9	.....	37839 Genuine. Somewhat high in camphor content.
.....	1.1269	1.4639	1.4733	48.48	51.52	6.4	45.1	Present.	37840 Adulterated with cotton seed oil and low in camphor.
.....	1.2160	1.4605	1.4747	34.79	65.21	4.8	60.4	"	37841 " "
.....	1.1518	1.4613	1.4696	39.04	60.96	11.2	49.7	.....	37842 Genuine.

## D. O'SULLIVAN, INSPECTOR.

				p. e.	p. e.	p. e.	p. e.		
.....	1.2158	1.4587	1.4700	34.18	65.82	4.8	61.0	.....	41664 Low in camphor.
.....	1.1406	1.4634	1.4748	35.48	64.52	6.0	58.5	Present.	41665 Low in camphor and contains cotton seed oil.
.....	1.1827	1.4610	1.4740	49.19	50.81	2.4	48.4	"	41666 " "
.....	1.1666	1.4623	1.4750	39.59	60.41	8.8	51.6	"	41667 Adulterated with cotton seed oil.
.....	1.1264	1.4646	1.4743	42.61	57.39	13.6	43.7	"	41668 Adulterated and somewhat high in campho

## APPENDIX F.

## BULLETIN No. 211—OIL OF TURPENTINE.

OTTAWA, July 14, 1910.

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

SIR:—*Oil of Turpentine* (Terebinthinae Oleum) commonly called turpentine, is a drug recognized by the British and other Pharmacopoeias, and therefore comes within the scope of the Adulteration Act. It is a question whether the article, as employed in the arts, should be required to meet pharmacopoeal specifications; but until this point is settled, we must hold that "turpentine" means the turpentine of the pharmacopoeias.

The British Pharmacopoeia (Edn. 1898) thus describes the drug, "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 weight of glacial acetic acid. It commences to boil at about 320°F. (160°C.) and almost entirely distils below 356°F. (180°C.), little or no residue remaining".

Squire's Companion (Edn. 1908) comments as follows;— "Rectified Oil of Turpentine has a sp. gr. of 0.860 to 0.880; the B.P. does not give a sp. gr.; the U.S.P. states 0.860 to 0.870 at 25°C. (77°F.); the P.G. 0.860 to 0.870. It boils at about 156°C. (312.8°F.), which is the figure given in the B.P. The P.G. states that it distils completely between 155° and 162°C. (311° and 323.6°F.). The B.P. states that it should distil almost entirely below 180°C. (356°F.). *This temperature is considered (C. D. '98, ii. 55) to be too high, boiling at about 155° C. (311° F.) and at least 80 p. c. distilling below 165° C. (329° F.) would have been better.*—The U.S.P. requires that the larger part of the oil should pass over between 155° and 162°C. (311° and 323.6°F.). The optical rotation of the oil may be either dextrogyrate or laevogyrate. French Oil of Turpentine is strongly laevorotatory (−20° to −40° in a tube of 100mm. length). American Oil of Turpentine is dextrogyrate, the rotation usually varying from +9° to +14°. A 52 lb. quantity when fractionally distilled (C.D. '00, ii, 174) yielded up to 162.5°C. (324.5°F.) a distillate (91.2 p. c. of the whole) which was entirely dextrogyrate and from 162.5° to 190°C. (324.5° to 374°F.) fractions (amounting to 8.52 p. c.) which increased in laevorotation with the boiling point, namely from −0.8° to −10.3°. Neither the B.P. the U.S.P. nor the P.G. refers to the optical rotation. It is officially stated to be soluble in its own volume of Glacial Acetic Acid. This test has been shown (P.J. '02, i. 503) by the author and C. M. Caines to be practically *of no value* as a test for Oil of Turpentine, although useful as a test of the strength of Glacial Acetic Acid. An acid conforming strictly to the B.P. titration test (which requires a definite figure) cannot be expected to form a clear solution with all samples of Oil of Turpentine when mixed in equal volumes. Commercial samples of Glacial Acetic Acid which require more than the B.P. figure will mix readily without subsequent separation, and most of the commercial acids give a higher figure than the B.P. With such samples of Oil of Turpentine as had up to that time been examined the mixture of any of them in equal volumes with Glacial Acetic Acid, temperature 14.4° to 16.7°C. (58° to 62°F.) became a delicate test for a strength of 99.5 p. c. acid or stronger. The test is also referred to under Acidum Aceticum Glaciale.

The more generally occurring impurities are Petroleum, Paraffin Oils, Rosin, Rosin Oil, Petroleum Benzin, Kerosene Oil or similar hydrocarbons. Petroleum, Paraffin Oils of Rosin, if present, may be detected by the residue test. Kerosene or Rosin Oil, if



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present, by the évaporation test. Petroleum Benzin, Kerosene and similar hydrocarbons by the Sulphuric Acid test, each of which tests is described in small type below. Some work done in the laboratory of the Canadian Inland Revenue Department (C.D. '02, i.955) has resulted in the following definition of Oil of Turpentine, which must, however, be regarded as provisional, and subject to correction and amplification; it should be colourless, in thin layers, clear, but made decidedly opaque by shaking with 1.0 p. c. of water, and giving an opaque distillate of one-tenth volume which settles clear in a few hours. The peculiar and characteristic odour quite distinct from that of Gasolene, Rosin Oil, or Acetone. It has a sp. gr. between 0.860 and 0.880 (usually about 0.870). Samples which have been long exposed to the air have a higher density. The first 10 p. c. fraction has a sp. gr. of between 0.856 and 0.870 (usually about 0.860); the residual tenth should not exceed 0.900. The boiling point should lie between 154° and 158° C. (309.2° and 316.4° F.); nine-tenths should distil below 180° C. (356° F.). Fixed residue should not exceed 2 p. c., flash point about 32° C. (89.6° F.). The optical activity of the first fraction should increase in a plus direction by oxidation. The refractive index at 20° C. should lie between 1.4667 and 1.4722, that of the first fraction should not exceed 1.470. Moistened Starch Iodide paper should become blue when suspended over Turpentine exposed to the air, free Bromine in solution should be decolorised. Strong Sulphuric Acid should polymerize and char the sample at a boiling temperature, a rise of temperature should result on mixing with Sulphuric Acid."

The above may be taken as summing up all that is known of commercial turpentine, and it is amply evident that definitions and limits of variability are much needed. Reference is made to work done in this laboratory in 1901 (Bulletin 79). This consisted in an examination of 50 samples of commercial turpentine, having regard to the following properties :—

Physical characters—1. Colour.

2. Clearness.

3. Odor.

4. Taste.

5. Density.

6. Boiling point.

7. Volatility.

8. Vapor density.

9. Flash point.

10. Viscosity.

11. Solubility.

12. Solvent power.

13. Rotatory power for polarized light.

14. Refraction.

15. Fluorescence.

16. Oxidisability.

Chemical characters—17. Bromine absorption.

18. Rise of temperature with sulphuric acid.

The results of the examination referred to were summed up as follows, and having regard to a definition of Oil of Turpentine :—"Oil of Turpentine is a liquid, *colourless*—in thin layers, and having a yellow-red tint, equivalent to about 1 unit of yellow and 0.1 unit of red (Lovibond scale) when viewed in a column 2 dm. long. *Clear*—but made decidedly opaque by shaking with 0.1 per cent, water, and giving an *opaque*—distillate of one-tenth volume, which settles clear in a few hours. *Odour*—peculiar and characteristic, quite distinct from that of gasoline, rosin oil or acetone, and capable of disguising these odours to the extent of 10 per cent, admixture. *Density*—between 0.860 and 0.880, (usually about 0.870) but samples which have been long exposed to air may have a higher density. The *first fraction*—of one-tenth volume, has a density between 0.856 and 0.870 (usually about 0.860). The *residual tenth*—should not exceed 0.900. The *boiling point*—should lie between 154° and 158° C., and nine-tenths should distil below 180° C. The *fixed residue*—on evaporating over boiling water in a 4 inch,

hemispherical dish, should not exceed 2 per cent. The viscosity, at 20° C., should be nearly 1.230 (water 1.000) McGill viscosimeter. *Flash point*—should be about 32°C. (Abel instrument). Should *dissolve*—completely in an equal volume of glacial acetic acid, and the first fraction should similarly dissolve. A *saturated solution*—of asphaltum should not be rendered translucent by dilution to ten volumes. (This test is best made by comparison with a sample of known purity.) The *optical activity*—of the first fraction should increase in a + direction by oxidation. The *refractive index*—at 20°C. should lie between 1.4667 and 1.4722. That of the first fraction should not exceed 1.4700. Moistened iodide of starch paper should become blue when suspended over turpentine exposed to air. *Free Bromine*—in solution (see section 17) should be decolorized. *Strong sulphuric acid*—should polymerize and char the sample at a boiling temperature. A *rise of temperature*—(see sec. 18), should result on mixing with sulphuric acid.

Experience since 1901 has shown that our knowledge of the article Commercial Turpentine is yet too indefinite and uncertain to be satisfactory. This is in part due to the nature and origin of the substance as known to commerce in the past. Turpentine is not a definite chemical substance, having a constant composition. It is the more volatile portions of the oleoresins derived from a number of different varieties of *Pinus*. Of later years, owing to the growing scarcity of pine forests, advantage has been taken of the fact that, by treatment in the dry way, or with superheated steam, a volatile product resembling turpentine is obtainable from pine, (roots, chips and other waste material). This article, commercially distinguished as wood-turpentine, (the original substance being called gum turpentine) resembles turpentine, and is even identical with turpentine in so many respects, that it has been found easy to market it under the same name.

But wood-turpentine, although having much in common with true turpentine is not really identical with it. This fact appears to be well known to, and recognized by the trade; and some of the chemical differences between the two are pointed out in a paper by me, contributed to the Society of Chemical Industry. (See Jour. Soc. Chem. Indust., Vol. XXVI (1907) p. 847).

An important paper on turpentine was read before the Society of Public Analysts (London, England) by J. H. Coste, F.I.C. in 1908, and is published in the Analyst, Vol. XXXIII, p. 219. Speaking of turpentine Mr. Coste says:—"There is no doubt that much of the turpentine shipped to Europe from the United States is of a very different character from that which a few years ago was recognized as typical American Turpentine."

Another sophistication of turpentine consists in the addition to it of certain petroleum fractions, which are doubtless sold to greater profit in this than in any other way. The literature of this subject is very voluminous, and scattered. It is, moreover, very contradictory; many writers claiming that, as a solvent for use in paints and varnishes, the various substitutes for turpentine are little, if at all, inferior to the genuine article. It remains, however, that the name turpentine is supposed to stand for a certain and definite product; and it should be possible so to describe that product as to be able with certainty to distinguish between turpentine and its substitutes or imitations.

The report now submitted contains results obtained in the analysis of 75 samples of turpentine purchased in the markets of the Dominion, and of ten (10) samples, furnished by importers and others. These last are indicated by letters. Table I (parts 1 and 2) gives the source of the samples, and the results of analysis. Table II makes a selection of 29 samples which are apparently genuine gum turpentine as judged by the whole results of analysis.

In connection with the results here shown it is important to note as follows:—

1. The percentage weight of Iodine taken up, approximates 370; which number was regarded as typical by Worstall (Jour. Soc. Chem. Indust., 1904, 302), and corroborated by myself (J.S.C.I. XXVI) the Hübl solution being employed.



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2. The undissolved (unpolymerized) residue, on treatment of 10 cc with 40 cc., of a sulphuric acid containing 20 per cent of the fuming acid, seldom exceeds 10 per cent of the sample.
3. The refractive index of this residue lies between 1.4950 and 1.5000 ; read at 20° C.
4. The refractive index of the sample is about 1.4700 at 20° C.
5. The specific gravity (15.5°C.) is about 0.870.
6. The initial boiling point is not lower than 150°C. under ordinary pressure ; and the greater part (at least 75 per cent volume) distils below 160°C.
7. The middle fraction of 50 per cent volume, distils between 156° and 159°C., in most samples.
8. Ninety per cent by volume distils below 165° C., in most samples.
9. The refractive index of the second fraction of 25 per cent volume, is between 1.4685 and 1.4700 ; and that of the third fraction of 25 per cent is practically 1.4700.
10. The flash point lies between 31°C. and 34°C.

Table III contains the results of examination of nine (9) samples, furnished by various interested parties, and suspected, for one reason or another, to be surrogate. It is unfortunate that very small quantities were supplied in most cases, hence the record is less complete than could be wished. So far as it goes, it may be noted, in contrast to the general conclusions reached for genuine turpentine, that, (1) the Iodine number is decidedly below 370 ; (2) the unpolymerized residue in the first 7 samples falls within the limit for turpentine, while in I & K, the residue exceeds 40 per cent. (3) The refractive index for the first 7 samples, falls within the limits for turpentine, while samples I & K, show a much lower refraction. (4) The same holds true of the refraction of the sample itself. (5) The specific gravity of the first 5 samples is indistinguishable from that of turpentine ; for samples F & G it is quite too high ; and for K it is abnormally low. (6) Initial boiling point and temperature for distillation of 75 per cent indicate a variation from true turpentine especially notable in samples I & K. (7) The limits of temperature for distillation of middle fraction of 50 p. c., are pronouncedly different from those for genuine turpentine. (8) Limit temperature for 90 per cent distillate is too high. (9) The flash point does not serve to distinguish from genuine turpentine.

This study, interpreted in the light of our knowledge of wood-turpentine and of petroleum, justifies the conclusions that the first seven samples in this table (A to G) are essentially wood turpentines ; while samples I & K, are mixtures containing considerable amounts of petroleum.

This report shows that a considerable amount of adulterated turpentine is found on the market in Canada. The adulteration chiefly consists in additions of petroleum fractions ; but, in some instances it is due to substitution by, or addition of wood turpentine.

Wood turpentine is apparently more closely related to turpentine than are petroleum. It is claimed that certain substitutes for turpentine have equal value with the genuine article, for use in the arts. With this aspect of the question, we have nothing to do. It is the duty of this Department to require that nothing else than true turpentine shall be offered for sale, or sold, under that name. The sale of wood turpentine or of petroleum mixtures for paint and varnish manufacture, and for other uses in the arts, may possibly be desirable ; but such articles should not be sold under the name turpentine.

I believe that the information herein given will be helpful in enabling a clear and workable definition of turpentine to be made ; and I beg to recommend its publication as Bulletin No. 211.

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

A. MCGILL.  
*Chief Analyst.*

TABLE I, (PART I) BULL. 211—TURPENTINE.

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

DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.

1910.							
Mar. ..	Turpentine.....	41941	Wm. Robertson & Son, Halifax, N.S., 3 pts..	50	Carolina Pine Product Co., Cleveland, Ohio.	.....	41941
" ..	" ..	41942	A. M. Bell & Co., Halifax, N.S., 3 " ..	37	Unknown. ....	Sold as American Turpentine	41942
" ..	" ..	41943	Crowell Bros., Halifax, N.S., 3 " ..	35	W. B. Dicks, London, Eng. ....	.....	41943
" ..	" ..	41944	Martin & Moore, Halifax, N.S., 3 " ..	36	Imperial Oil Co., Halifax.....	(Georgia Pure Turpentine....	41944
" ..	" ..	41945	A. L. Melvin & Co., Halifax, N.S., 3 " ..	35	Carolina Pine Product Co., Halifax, N.S. ....	.....	41945

DISTRICT OF PRINCE EDWARD ISLAND—THEO. MOORE, INSPECTOR.

Mar. 7	Turpentine.....	38626	Stanley Shaw & Reardon, Charlottes-3 pts..	37	A. Ramsay & Co., Montreal.....	.....	38626
" 9	" ..	38627	R. Tuplin & Co., Kensington.....	38	Carolina Pine Product Co., Cleveland Ohio.	.....	38627
" 10	" ..	38628	R. T. Holman Ltd., Summerside ..	40	" " ..	.....	38628
" 12	" ..	38629	S. W. Crabbe, Charlottetown.....	40	A. Jamieson & Co., Montreal.....	.....	38629
" 15	" ..	38630	Sterns Bros., Souris.....	40	Rogers Hardware Co., Charlottetown	.....	38630

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## DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.

Mar.	3	Turpentine.....	39640	Robertson, Foster & Smith, Ltd., St. 3 pts., John, N.B.	45	Standard Oil Co., N.Y., De B. Carrithé, Agent, St. John.	39640
"	7	"	39641	W. H. Thorne & Co., Ltd., St. John, 3 " "	45	De B. Carrithé, St. John, N.B.	39641
"	9	"	39642	N.B.	60	North Carolina Pine Varnish Co., U.S.A.	39642
"	15	"	39643	T. McAvity & Sons Ltd., St. John, 3 " "	45	Imperial Oil Co., St. John, N.B.	39643
Apr.	6	"	39644	N.B. Tweeddale & Co., Fredericton, N.B., 3 " "	30	Carolina Pine Product Co., Montreal.	39644

## DISTRICT OF QUEBEC—E. BELAND, INSPECTOR.

Mar.	8	Turpentine.....	36523	T. M. Tardivel, 34 Rue Desjardins, 3 pts., Quebec.	45	The Georgia Turpentine Co., Mont- real.	36523
"	8	"	36524	B. Leonard, 53 Rue St. Jean, Que- 3 " "	36	Unknown.	36524
"	8	"	36525	Marier & Traublay, 71 Rue du Pont, 3 " "	39	Carolina Ripe Production.	36525
"	8	"	36526	Quebec, Simard & Frère, 270 Rue St. Joseph, 3 " "	42	Unknown.	36526
"	8	"	36527	Quebec, La Comp. Gauthier, 297 Rue St. 3 " "	45	Imperial Oil Co., Quebec.	36527

## DISTRICT OF ST. HYACINTHE—J. C. ROULEAU, INSPECTOR.

Mar.	3	Turpentine.....	1256	J. Senesac, Stanbridge Station . . . 1½ pt.	20	Unknown	1256
"	3	"	1257	Hill & Depatie, St. Armand . . . . . 3 pts.	45	Sherwin Williams, Montreal.	1257
"	7	"	1258	G. E. N. Pepin, Drummondville . . . 3 " "	40	Imperial Oil Co., Montreal.	1258
"	7	"	1259	A. Daveluy & fils, Daveluyville . . . 1½ pt.	25	Frothing & Workman.	1259
	18	"	1260	S. Bourgeois & Cie, St. Hyacinthe . . 3 pts.	33	Carolina Pine Products Co., Sa- vannah, Ga.	1260

TABLE I, (PART I) BULL. 211—TURPENTINE—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).	No. of Sample.
				Quantity.	Cents.			
DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.								
1910.								
Mar. 9	Turpentine.....	40442	B. Beaulieu, St. Jerome, P.Q.....	3 pts..	45	Imperial Oil Co., Montreal.....		40442
" 9	" .....	40443	C. E. Laflamme, St. Jerome, P.Q.....	3 " ..	45	" .....		40443
" 14	" .....	40444	Wall Bros., 67 Bleury St., Montreal. 3 " ..	3 " ..	40	Canada Paint Co., Ltd., Montreal....		40444
" 14	" .....	40445	E. D. Collette & Co., 45 Bleury St., Montreal. 3 " ..	3 " ..	45	" .....		40445
" 14	" .....	40446	Beauvais et frere, 336 St. Lawrence B., Montreal. 3 " ..	3 " ..	40	" .....		40446
DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.								
Mar. 15	Turpentine.....	42942	George Higman Son & Co., Ottawa..	3 bts.	45	Ottawa Paint Works, Ottawa.....	Labelled Pure Spirits of Turpentine.	42942
" 15	" .....	42943	William Howe, Rideau St., Ottawa..	3 " ..	25	Southern States Turpentine Co., Cleveland, Ohio.	" .....	42943
" 15	" .....	42944	J. B. Duford, Ottawa .....	3 " ..	38	W. G. Charleson, Ottawa.....	" .....	42944
" 15	" .....	42945	The Ottawa Paint Works, Ottawa..	3 " ..	38	Am. Naval Stores Co., New York....	Labelled Pure Spirits of Turpentine.	42945
" 15	" .....	42946	John Storr, Ottawa .....	3 " ..	38	Southern States Turpentine Co., Cleveland, Ohio.	" .....	42946

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## DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.

Mar. 1	Turpentine.....	44201 J. Nugent, Kingston.....	3 pts..	50 Queen City Oil Co., Kingstn.....	44201 .....
" 1	" .....	44202 J. B. Bunt, Kingston.....	3 " ..	45 A. Chown, Kingston.....	44202 .....
" 1	" .....	44203 W. Mitchell, Kingston..	3 " ..	50 North Carolina Production Co., Montreal.....	44203 .....
" 1	" .....	44205 A. Chown & Co., Kingston..	3 " ..	35 New York Agent, Direct from Havana.....	44205 .....
" 1	" .....	44256 A. B. Dalton & Sons, Kingston.....	3 " ..	40 Am. Navy Stores New York .....	44256 .....

## DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

Mar. 2	Turpentine.....	41399 Geo. Pearsall & Son, 417 Yonge St., Toronto.....	3 pts.	45 The Queen City Oil Co., Ltd., Toronto.....	41399 .....
" 2	" .....	41400 W. C. McFarland, 391-393 Parliament St., Toronto.....	3 " ..	50 J. H. Morrin & Co., Toronto.....	41400 .....
" 4	" .....	41497 J. M. B. Stephens, New Market.....	3 " ..	60 Brandram & Henderson, Montreal.....	41497 .....
" 7	" .....	41498 Thomas Ramsay, Market Square, Hamilton.....	3 " ..	37 Carolina Pine Products Co., Cleveland, Ohio.....	41498 .....
" 8	" .....	41499 Alexander Hardware Co., Ltd., King St. E., Hamilton.....	3 " ..	40 A. Ramsay & Son, Montreal.....	41499 .....

## DISTRICT OF LONDON—T. KIDD, INSPECTOR.

Mar. 15	Turpentine.....	44731 — Howell, Godeicht .....	1 pt.	20 Canada Paint Co. ....	44731 .....
" 18	" .....	44733 Matt. Williams, Seaforth. ....	3 bots.	30 Gorman & Eckert, London.....	44733 .....
Apr. 11	" .....	44736 W. Barley, Mitchell .....	3 " ..	30 Unknown ..	44736 .....
" 14	" .....	44745 Will. Bartlett, St. Mary's.....	1½ pt.	15 Sanders & Percy, Toronto.....	44745 .....
" 19	" .....	44748 J. Minnes, Hardware Merchant, Fergus.....	1 pt.	20 " ..	44748 .....





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" 17	"	35640	The J. H. Ashdown Hardware Co., Ltd., Calgary.	3 " "	60	Imperial Oil Co., Calgary.	35640
" 18	"	35641	T. R. Stuart & Co., Calgary	3 " "	60	G. F. Stephens Co., Calgary	35641
DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.							
Mar. 15	Turpentine.	37853	J. A. Flect, Vancouver.	3 pts.	40	Imperial Oil Co., Victoria, B.C.	37853
" 15	"	37854	Wood, Vallance & Leggett, Van.	3 " "	40	" " "	37854
" 15	"	37855	Fraser Hardware Co., Vancouver.	3 " "	55	" " "	37855
" 15	"	37856	Abetrombie Hardware Co., Van.	3 " "	50	" " "	37856
" 15	"	37857	Bonell Hardware Co., Vancouver.	3 " "	55	" " "	37857
DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.							
Mar. 21	Turpentine	41674	The Staneland Co., Victoria, B.C.	3 pts.	50	Imperial Oil Co.	41674
" 21	"	41675	Mellor Bros., Ltd., Victoria, B.C.	3 " "	60	"	41675
" 21	"	41676	Melrose Paint Co., Victoria, B.C.	3 " "	40	"	41676
" 21	"	41677	J. L. Forrister, Victoria, B.C.	3 " "	45	British Am. Paint Co., Victoria, B.C.	41677
" 21	"	41678	British Am. Paint Co., Victoria, B.C.	3 " "	40	Imperial Oil Co., Vancouver, B.C.	41678
"	"	A	"	"	"	"	A
"	"	B	Canada Turpentine Co., per E. Fielding.	"	"	Steam process, Wood Turpentine.	B
"	"	C	Canada Turpentine Co., per R. Munroe.	"	"	"	C
"	"	D	Cadillac Turpentine Co., per E. Fielding.	"	"	No. 1 Grade Steam Process Wood Turpentine.	D
"	"	E	E. Fielding.	"	"	Wood Turpentine from Georgia	E
"	"	F	"	"	"	"	F
"	"	G	"	"	"	"	G
"	"	H	"	"	"	"	H
"	"	I	"	"	"	"	I
"	"	K	Sumner Co., Moncton, N.B., L. 70451.	"	"	"	K

TABLE I, (PART II) BULL.

RESULTS OF

Name of Inspectoral District.	Number of Sample.	Hubl. Iodine Number.	Insol. Residue from 10 cc. with 40cc. H <sub>2</sub> SO <sub>4</sub> 4 Conc. 1 fum.	Ref. Index 20° of Insoluble Residue.	Ref. Index 20° of Turpentine.	Sp. Gr. 15° of Turpentine.	Distillation Tem. 1st 25 cc. from 100 cc.	2nd 25 cc.	3rd 25 cc.	Next 15 cc.	Ref. Index Fraction 1st 25 cc. Distillate.
						°	°	°	°	°	
Nova Scotia.....	41941 290.4	3.0	1.4667	1.4668	8594 150-160	160-165	165-174	175-197	1.4626		
	41942 293.4	2.1	1.4687	1.4678	8634 154-160	160-164	164-173	173-202	1.4644		
	41943 303.1	.8	1.4898	1.4720	8637 159-162	162-164	164-167	167-172	1.4695		
	41944 377.5	.65	1.4967	1.4719	8746 153-157	157-158	158-159	.....	1.4692		
	41945 251.5	3.5	1.4643	1.4660	8576 154-160	160-166	166-174	174-215	1.4621		
Prince Edward Island	38626 372.3	.75	1.4994	1.4703	8710 150-156	156-157	157-158	158-163	1.4680		
	38627 223.0	3.85	1.4596	1.4646	8374 148-158	158-166	166-180	180-227	1.4564		
	38628 351.2	1.5	1.4849	1.4692	8652 154-157	157-158	158-159	159-165	1.4680		
	38629 386.9	1.05	1.4996	1.4708	8681 152-156	156-157	157-158	158-161	1.4687		
	38630 369.2	.7	1.4991	1.4717	8759 154-157	157-158	158-161	161-171	1.4690		
New Brunswick.....	33640 335.5	1.35	1.4865	1.4886	8670 145-156	156-157	157-158	158-164	1.4628		
	39641 368.9	.9	1.5006	1.4710	8718 154-157	157-157	157-159	159-163	1.4690		
	39642 363.5	1.3	1.4874	1.4686	8663 149-155	155-157	157-159	159-163	1.4624		
	39643 363.4	1.05	1.4820	1.4688	8657 145-156	156-158	158-159	.....	1.4619		
	39644 200.7	3.6	1.4678	1.4658	8589 152-159	160-164	164-177	177-210	1.4624		
Quebec.....	36523 330.2	.95	1.4965	1.4714	8747 152-156	156-158	158-160	160-169	1.4678		
	36524 289.6	4.00	1.4483	1.4559	8366 110-148	148-154	154-158	158-162	1.4322		
	36525 295.8	2.65	1.4694	1.4657	8589 152-158	158-161	161-166	166-178	1.4628		
	36526 365.8	1.05	1.5090	1.4706	8692 153-157	157-158	158-168	168-158	1.4686		
	36527 290.8	3.05	1.4524	1.4553	8339 120-144	144-152	152-157	157-161	1.4356		
St. Hyacinthe.....	1256 256.2	3.9	1.4632	1.4628	8607 153-160	160-163	163-172	172-193	1.4582		
	1257 335.0	.75	1.4980	1.4714	8730 154-158	158-159	159-160	160-166	1.4689		
	1258 350.3	.85	1.4952	1.4731	8870 150-157	157-159	159-165	165-210	1.4679		
	1259 246.5	3.9	1.4673	1.4635	8579 154-162	162-167	167-181	181-227	1.4617		
	1260 241.2	2.9	1.4481	1.4654	8576 151-161	161-168	168-177	177-215	1.4587		
Montreal.....	40142 344.1	.65	1.4936	1.4730	8674 152-157	157-160	160-164	165-205	1.4678		
	40143 373.8	.85	1.4997	1.4718	8735 152-156	156-158	158-160	160-167	1.4681		
	40144 355.4	.6	1.4826	1.4700	8683 150-155	155-156	156-158	158-162	1.4772		
	40145 369.1	1.0	1.4903	1.4702	8707 150-156	156-158	158-159	.....	1.4667		
	40.46 368.9	1.3	1.4887	1.4687	8660 152-156	156-157	157-159	159-162	1.4667		
Ottawa.....	42942 366.6	1.0	1.5012	1.4703	8991 149-156	156-156	156-158	158-159	1.4697		
	42943 366.0	2.5	1.4695	1.4660	8668 150-156	156-158	158-160	160-175	1.4633		
	42944 276.0	2.5	1.4688	1.4661	8615 152-156	156-159	159-165	165-175	1.4634		
	42945 376.8	1.1	1.5600	1.4716	8681 155-157	157-159	159-160	160-161	1.4702		
	42946 295.7	2.8	1.4696	1.4637	8595 152-157	157-158	158-160	160-164	1.4628		
Kingston.....	44201 360.4	1.3	1.4894	1.4704	8706 155-157	157-158	158-160	160-168	1.4682		
	44202 337.3	1.0	1.4956	1.4714	8754 152-157	157-158	158-159	160-168	1.4693		
	44203 250.8	3.8	1.4653	1.4658	8576 150-160	160-165	165-179	179-227	1.4612		
	44205 373.2	.8	1.4884	1.4714	8748 150-157	157-158	158-160	160-168	1.4686		
	44256 369.5	1.0	1.5000	1.4710	8606 155-157	157-158	158-159	159-161	1.4698		
Toronto.....	41399 382.2	1.0	1.4977	1.4701	8699 153-156	156-156	156-157	157-162	1.4679		
	41400 365.3	1.1	1.5014	1.4937	8669 152-157	157-158	158-159	159-162	1.4664		
	41497 351.6	.95	1.4977	1.4715	8720 155-157	157-158	158-159	159-163	1.4702		
	41498 287.3	3.8	1.4601	1.4643	8582 145-159	159-166	166-176	176-220	1.4560		
	41499 395.0	.95	1.5000	1.4703	8688 153-155	155-155	155-158	.....	1.4687		
London.....	44731 358.1	.95	1.5008	1.4714	8705 151-156	156-158	158-159	159-163	1.4690		
	*44733 358.0	.9	1.4987	1.4696	8692 152-157	157-158	158-159	159-163	1.4686		
	44736 363.9	.75	1.5014	1.4718	8819 153-156	156-157	157-160	160-176	1.4686		
	44745 375.1	.6	1.4952	1.4716	8681 153-156	156-157	157-157	157-162	1.4678		
	†44748 .....	.....	.....	.....	.....	.....	.....	.....	.....		
Windsor.....	42501 360.1	.8	1.4923	1.4702	8698 152-157	157-157	157-158	158-163	1.4686		
	42502 393.7	.65	1.4994	1.4706	8699 153-155	155-156	156-157	157-162	1.4686		
	42503 392.6	.7	1.4997	1.4700	8679 153-156	156-157	157-157	157-159	1.4687		
	42504 380.5	.65	1.4993	1.4705	8702 152-155	155-156	156-158	158-162	1.4687		
	42505 375.6	.6	1.4974	1.4700	8678 150-156	156-156	156-157	.....	1.4688		

\* Small sample.

† Sample in dirty bottle and therefore not worked.

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## 211—TURPENTINE.

## ANALYSIS.

Fraction 2nd 25 cc.	Fraction 3rd 25 cc.	Fraction 4th 15 cc.	Residue of 10 cc.	Residue of 25 cc.	DISTILLATION TEMPERATURE OF 90 CC. FROM 100.											Flash Point.	Number of Sample.	Remarks and Opinion of the Chief Analyst.	
					Under 150°	150°-154°	155°-159°	160°-164°	165°-169°	170°-174°	175°-179°	180°-184°	185°-189°	190°-194°	195°-199°				200°
1 4651	1 4671	1 4680	1 4775	.....	3	18	29	17	8	4	5	3	2	1	..	34° 0	41941	Contains petroleum.	
1 4659	1 4670	1 4686	1 4818	.....	1	21	34	14	8	4	3	2	1	1	1	36° 5	41942	" "	
1 4704	1 4717	1 4738	1 4838	.....	..	5	48	31	6	..	..	..	..	..	..	38° 5	41943	Wood turpentine.	
1 4696	1 4703	.....	.....	1 4808	.....	..	..	..	..	..	..	..	..	..	..	33° 5	41944	Genuine.	
1 4644	1 4663	1 4672	1 4793	.....	..	1	15	27	18	11	7	2	1	1	1	36° 5	41945	Contains petroleum.	
1 4690	1 4693	1 4707	1 4889	.....	0	5	78	7	..	..	..	..	..	..	..	32° 5	38626	Genuine.	
1 4627	1 4653	1 4683	1 4926	.....	3	7	23	14	18	6	5	1	4	1	9	33°	38627	Contains petroleum.	
1 4691	1 4692	1 4703	1 4750	.....	..	2	80	8	..	..	..	..	..	..	..	34° 5	38628	Doubtful.	
1 4694	1 4700	1 4704	1 4820	.....	..	3	83	4	..	..	..	..	..	..	..	33°	38629	Genuine.	
1 4698	1 4702	1 4719	1 5006	.....	..	3	67	16	3	1	..	..	..	..	..	34° 5	38630	"	
1 4676	1 4693	1 4713	1 4900	.....	2	17	68	3	..	..	..	..	..	..	..	29°	39640	Doubtful.	
1 4697	1 4702	1 4714	1 4894	.....	..	1	78	11	..	..	..	..	..	..	..	33° 5	39641	Genuine.	
1 4677	1 4694	1 4713	1 4887	.....	3	17	61	9	..	..	..	..	..	..	..	27°	39642	Doubtful.	
1 4676	1 4696	.....	.....	1 4790	.....	..	..	..	..	..	..	..	..	..	..	28°	39643	"	
1 4654	1 4666	1 4673	1 4788	.....	..	5	20	28	13	7	5	3	2	2	4	35°	39644	Contains petroleum.	
1 4695	1 4702	1 4715	1 4976	.....	..	5	70	12	3	..	..	..	..	..	..	32° 5	36523	Doubtful.	
1 4550	1 4636	1 4677	1 4800	.....	32	23	32	3	..	..	..	..	..	..	..	12°	36524	Contains petroleum.	
1 4650	1 4666	1 4673	1 4747	.....	..	3	36	30	15	5	1	..	..	..	..	33°	36525	" "	
1 4698	1 4702	1 4720	1 4832	.....	..	2	88	..	..	..	..	..	..	..	..	32° 5	36526	Genuine.	
1 4516	1 4620	1 4676	1 4813	.....	41	21	25	3	..	..	..	..	..	..	9°	36527	Contains petroleum.		
1 4608	1 4611	1 4608	1 5074	.....	..	2	23	34	11	9	5	1	2	3	..	37°	1256	" "	
1 4700	1 4704	1 4718	1 4937	.....	..	2	69	18	1	..	..	..	..	..	..	34°	1257	Genuine.	
1 4707	1 4689	1 4774	1 5166	.....	..	7	50	18	5	4	2	1	1	1	2	33° 5	1258	Doubtful.	
1 4644	1 4659	1 4679	1 4800	.....	..	3	12	26	18	12	3	4	3	1	0°	37°	1259	Contains petroleum.	
1 4640	1 4664	1 4682	1 4839	.....	..	4	17	17	16	13	10	5	1	1	1	15	36°	1260	" "
1 4694	1 4707	1 4767	1 5196	.....	..	10	38	27	6	5	1	1	1	..	1	35°	40442	Doubtful.	
1 4688	1 4702	1 4719	1 4974	.....	..	5	68	14	3	..	..	..	..	..	..	33° 5	40443	Genuine.	
1 4690	1 4700	1 4710	1 4846	.....	..	10	73	7	..	..	..	..	..	..	..	31° 5	40444	Doubtful.	
1 4687	1 4696	.....	.....	1 4792	.....	..	..	..	..	..	..	..	..	..	..	31° 5	40445	Genuine.	
1 4684	1 4686	1 4708	1 4779	.....	..	5	75	10	..	..	..	..	..	..	..	32°	40446	"	
1 4702	1 4704	1 4717	1 4813	.....	1	8	81	..	..	..	..	..	..	..	..	35° 5	42942	Doubtful.	
1 4655	1 4664	1 4674	1 4800	.....	..	13	54	18	4	1	..	..	..	..	..	33°	42943	Contains petroleum.	
1 4650	1 4674	1 4677	1 4790	.....	..	10	47	18	11	4	..	..	..	..	..	34°	42944	" "	
1 4704	1 4710	1 4724	1 4789	.....	..	0	73	17	..	..	..	..	..	..	..	34° 5	42945	Genuine.	
1 4658	1 4662	1 4670	1 4760	.....	..	7	44	28	8	3	..	..	..	..	..	33° 5	42946	Contains petroleum.	
1 4692	1 4701	1 4712	1 4868	.....	..	..	69	17	4	..	..	..	..	..	..	33° 5	44201	Doubtful.	
1 4696	1 4702	1 4721	1 4947	.....	..	4	71	13	2	..	..	..	..	..	..	34° 5	44202	"	
1 4642	1 4663	1 4676	1 4805	.....	..	4	18	28	11	10	9	3	2	..	..	35°	44203	Contains petroleum.	
1 4694	1 4700	1 4716	1 4963	.....	..	4	66	18	2	..	..	..	..	..	..	33° 5	44205	Genuine.	
1 4701	1 4708	1 4718	1 4808	.....	..	..	83	7	..	..	..	..	..	..	..	34°	44256	"	
1 4690	1 4696	1 4708	1 4873	.....	..	4	83	3	..	..	..	..	..	..	..	32° 5	41399	"	
1 4694	1 4706	1 4718	1 4812	.....	..	5	71	14	..	..	..	..	..	..	..	31°	41400	"	
1 4703	1 4713	1 4726	1 4883	.....	..	..	77	13	..	..	..	..	..	..	..	34° 5	41497	Doubtful.	
1 4616	1 4646	1 4674	1 4894	.....	3	14	17	14	15	9	6	2	2	1	2	5	34° 5	41498	Contains petroleum.
1 4690	1 4696	.....	.....	1 4750	.....	..	..	..	..	..	..	..	..	..	..	33° 5	41499	Genuine.	
1 4702	1 4710	1 4723	1 4897	.....	..	5	76	9	..	..	..	..	..	..	..	34° 5	44731	Doubtful.	
.....	.....	.....	.....	.....	..	..	..	..	..	..	..	..	..	..	..	28° 0	44733	"	
1 4697	1 4702	1 4727	1 5053	.....	..	5	69	5	8	2	1	..	..	..	..	34° 5	44736	Genuine.	
1 4689	1 4693	1 4708	1 4836	.....	..	5	80	5	..	..	..	..	..	..	..	34° 0	44745	"	
.....	.....	.....	.....	.....	..	..	..	..	..	..	..	..	..	..	..	..	44748	Not worked.	
1 4690	1 4702	1 4707	1 4813	.....	..	11	70	9	..	..	..	..	..	..	..	34° 5	42501	Doubtful.	
1 5688	1 4700	1 4713	1 4886	.....	..	6	80	4	..	..	..	..	..	..	..	32° 5	42502	Genuine.	
1 4690	1 4698	1 4710	1 4796	.....	..	5	85	..	..	..	..	..	..	..	..	33° 0	42503	"	
1 4691	1 4698	1 4713	1 4878	.....	..	5	78	7	..	..	..	..	..	..	..	33° 5	42504	"	
1 4691	1 4700	.....	.....	1 4740	.....	..	..	..	..	..	..	..	..	..	..	33° 5	42505	"	



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TABLE I, (PART II) BULL.

RESULTS OF

Name of Inspectoral District.	Number of Sample.	Habl Iodine Number.	Insol. Residue from 10 cc. with 40 cc. H <sub>2</sub> SO <sub>4</sub> 4 Conc. 1 fun.	Ref. Index 20° of Insoluble Residue.	Ref. Index 20° of Turpentine.	Sp. gr. 15° 5 of Tur- pentine.	Distillation Temp. 1st 25 cc. from 100 cc.	2nd 25 cc.	3rd 25 cc.	Next 15 cc.	Ref. Index 1st 25 cc. Distillate.
Manitoba.....	39871	380·8	1·15	1·4950	1·4696	·8681	152 - 157	157 - 157	157 - 158	158 - 163	1·4679
	39872	373·2	·95	1·4922	1·4699	·8697	152 - 155	155 - 156	156 - 157	157 - 162	1·4673
	39873	341·1	1·15	1·4900	1·4702	·8698	152 - 155	155 - 156	156 - 158	158 - 169	1·4676
	39874	359·6	·95	1·4959	1·5705	·8726	150 - 155	155 - 156	156 - 158	158 - 164	1·4667
	39875	361·7	·9	1·4·27	1·4704	·8732	152 - 156	156 - 157	157 - 159	159 - 157	1·4676
Calgary . . . . .	35637	380·9	·75	1·4954	1·4707	·8722	149 - 156	156 - 156	156 - 159	.....	1·4668
	35638	358·3	·95	1·4936	1·4702	·8662	148 - 155	155 - 157	157 - 158	158 - 168	1·4658
	35639	354·6	·85	1·4934	1·4703	·8720	152 - 157	157 - 158	158 - 160	160 - 167	1·4672
	35640	369·8	1·0	1·4918	1·4694	·8685	146 - 156	156 - 157	157 - 159	159 - 167	1·4676
	35641	367·4	·95	1·4945	1·4701	·8719	152 - 156	156 - 157	157 - 157	157 - 167	1·4667
Vancouver . . . . .	37853	298·6	2·6	1·4650	1·4650	·8586	145 - 157	157 - 161	161 - 169	170 - 225	1·4584
	37854	368·1	·65	1·4990	1·4703	·8684	155 - 157	157 - 157	157 - 158	.....	1·4687
	37855	272·5	3·3	1·4596	1·4631	·8534	140 - 158	158 - 162	162 - 175	175 - 210	1·4570
	37856	345·1	·7	1·4984	1·4703	·8694	152 - 156	156 - 156	156 - 158	.....	1·4690
	37857	368·8	·75	1·4976	1·4702	·8679	152 - 155	155 - 156	156 - 157	.....	1·4674
Victoria . . . . .	41674	367·1	·7	1·4804	1·4686	·8661	140 - 152	152 - 154	154 - 156	.....	1·4606
	41675	352·0	·95	1·4779	1·4682	·8653	140 - 155	155 - 158	158 - 159	.....	1·4610
	41676	299·0	2·85	1·4615	1·4645	·8548	140 - 157	157 - 161	161 - 172	172 - 215	1·4570
	41677	284·0	3·2	1·4620	1·4637	·8538	145 - 158	158 - 162	162 - 174	174 - 220	1·4572
	41678	369·6	·85	1·4944	1·4680	·8653	140 - 155	155 - 157	157 - 159	159 - 165	1·4602
	A	295·8	1·3	1·4943	1·4704	·8705	155 - 160	160 - 162	162 - 167	167 - 176	1·4677
	B	344·4	·7	1·4986	1·4678	·8681	.....	.....	.....	.....	.....
	C	317·1	·9	1·4948	1·4696	·8664	.....	.....	.....	.....	.....
	D	331·5	·9	1·4884	1·4678	·8670	.....	.....	.....	.....	.....
	E	349·1	·55	1·4971	1·46·8	·8700	.....	.....	.....	.....	.....
	F	290·3	·6	1·4947	1·4750	·9065	.....	.....	.....	.....	.....
	G	247·8	·35	1·5013	1·4800	·9288	.....	.....	.....	.....	.....
	H	372·5	1·0	1·5003	1·4702	.....	155 - 157	157 - 157	157 - 158	158 - 158	1·4688
	I	238·0	4·15	1·4600	1·4631	.....	148 - 159	159 - 165	165 - 180	180 - 215	1·4564
	K	211·4	4·0	1·4634	1·4651	·8562	151 - 161	161 - 164	165 - 177	177 - 206	1·4603



SESSIONAL PAPER No. 14

## 211—TURPENTINE.

## ANALYSIS.

2nd 25 cc.	3rd 25 cc.	Next 15 cc.	Residue 10 cc.	Residue 25 cc.	DISTILLATION TEMPERATURE OF 90 CC. FROM 100.											Flash Point.	Number of Sample.	Remarks, and opinion of the Chief Analyst.
					Under 150°.	150°-154°.	155°-159°.	160°-164°.	165°-169°.	170°-174°.	175°-179°.	180°-184°.	185°-189°.	190°-194°.	195°-199°.			
1 4689	1 4694	1 4709	1 4816	.....	..	3	79	8	.....	.....	.....	.....	.....	.....	.....	32.0	39871	Genuine.
1 4689	1 4699	1 4718	1 4830	.....	..	15	70	5	.....	.....	.....	.....	.....	.....	.....	32.0	39872	"
1 4683	1 4692	1 4703	1 4870	.....	..	5	72	10	3	.....	.....	.....	.....	.....	.....	33.0	39873	Doubtful.
1 4686	1 4698	1 4713	1 4913	.....	..	18	64	8	.....	.....	.....	.....	.....	.....	.....	31.5	39874	"
1 4697	1 4703	1 4716	1 4933	.....	..	7	74	7	1	.....	.....	.....	.....	.....	.....	31.6	39875	"
1 4690	1 4700	.....	.....	1 4807	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	32.0	35637	Genuine.
1 4688	1 4700	1 4718	1 4970	.....	2	12	65	8	3	.....	.....	.....	.....	.....	.....	31.5	35638	Doubtful.
1 4698	1 4704	1 4713	1 4937	.....	..	7	59	23	2	.....	.....	.....	.....	.....	.....	32.0	35639	"
1 4687	1 4694	1 4705	1 4884	.....	3	4	71	10	2	.....	.....	.....	.....	.....	.....	34.0	35640	"
1 4692	1 4700	1 4718	1 4951	.....	..	7	75	7	2	.....	.....	.....	.....	.....	.....	32.5	35641	Genuine.
1 4654	1 4668	1 4666	1 4800	.....	4	11	28	24	8	4	3	2	2	1	2	27.5	37853	Contains petroleum.
1 4696	1 4700	.....	.....	1 4750	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	34.0	37854	Genuine.
1 4643	1 4660	1 4675	1 4840	.....	6	6	22	22	13	5	4	3	2	1	6	21.5	37855	Contains petroleum.
1 4693	1 4710	.....	.....	1 4753	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	34.0	37856	Doubtful.
1 4686	1 4699	.....	.....	1 4746	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	32.0	37857	Genuine.
1 4683	1 4698	.....	.....	1 4780	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	23.0	41674	Doubtful.
1 4677	1 4694	.....	.....	1 4769	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	24.0	41675	"
1 4648	1 4663	1 4662	1 4790	.....	5	10	25	24	8	7	2	2	2	1	3	25.0	41676	Contains petroleum.
1 4636	1 4663	1 4650	1 4740	.....	4	9	21	23	12	9	3	2	2	2	1	26.0	41677	"
1 4677	1 4696	1 4714	1 4930	.....	6	16	53	15	.....	.....	.....	.....	.....	.....	.....	23.5	41678	Doubtful.
1 4687	1 4706	1 4726	1 4873	.....	..	20	46	16	7	1	.....	.....	.....	.....	.....	35.5	A	Wood turpentine.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	B	"
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C	"
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D	"
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E	"
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F	"
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G	"
1 4697	1 4704	1 4713	1 4786	.....	..	90	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H	Genuine.
1 4624	1 4646	1 4663	1 4776	.....	2	9	17	22	16	6	3	5	3	1	5	30.5	I	Contains petroleum.
1 4640	1 4655	1 4668	1 4830	.....	4	19	21	16	10	10	4	2	1	1	2	35.0	K	"

TABLE II.—TURPENTINE.

No. of Sample.	Iodine Number.	Residue from 10 cc. SO <sub>2</sub> insoluble in H <sub>2</sub>	Refractive index of insoluble residue.	Refractive index of the Sample.	Specific gravity of the Sample.	FRACTIONATION OF 100 CC.					REFRACTIVE INDICES OF FRACTIONS AND RESIDUES.										VOLUMES OBTAINED FROM 100 CC.												Flash Point.
						1st 25 cc.	2nd 25 cc.	3rd 25 cc.	Next 15 cc.	1st 25 cc.	2nd 25 cc.	3rd 25 cc.	Next 15 cc.	Residue.	Res. 25 cc.	Below 150°																	
																to 154	to 159	to 164	to 169	to 174	to 179	to 184	to 189	to 194	to 199	Above 199							
35637	380.9	0.75	1.4954	1.4707	0.8722	149	156	156	156	159	158	158	158	158	14807	1.4807	1.4807	1.4807	1.4807	1.4807	1.4807	1.4807	1.4807	1.4807	1.4807	1.4807	1.4807	1.4807	1.4807	32.0			
38826	372.3	0.75	1.4994	1.4703	0.8710	150	156	156	157	157	158	158	163	163	14808	1.4808	1.4808	1.4808	1.4808	1.4808	1.4808	1.4808	1.4808	1.4808	1.4808	1.4808	1.4808	1.4808	1.4808	1.4808	32.5		
38629	386.9	1.15	1.4996	1.4708	0.8681	152	156	156	157	157	158	158	161	161	14657	1.4657	1.4657	1.4657	1.4657	1.4657	1.4657	1.4657	1.4657	1.4657	1.4657	1.4657	1.4657	1.4657	1.4657	1.4657	32.0		
39871	389.8	1.15	1.4950	1.4696	0.8697	152	157	157	157	157	158	158	163	163	14679	1.4679	1.4679	1.4679	1.4679	1.4679	1.4679	1.4679	1.4679	1.4679	1.4679	1.4679	1.4679	1.4679	1.4679	1.4679	32.0		
39872	373.2	0.95	1.4922	1.4699	0.8697	152	155	155	156	156	157	157	162	162	14673	1.4673	1.4673	1.4673	1.4673	1.4673	1.4673	1.4673	1.4673	1.4673	1.4673	1.4673	1.4673	1.4673	1.4673	1.4673	32.0		
40443	373.8	0.85	1.4997	1.4718	0.8735	152	156	156	156	156	160	160	167	167	14681	1.4681	1.4681	1.4681	1.4681	1.4681	1.4681	1.4681	1.4681	1.4681	1.4681	1.4681	1.4681	1.4681	1.4681	1.4681	32.5		
41399	382.2	1.00	1.4977	1.4701	0.8699	153	156	156	156	156	157	157	162	162	14679	1.4679	1.4679	1.4679	1.4679	1.4679	1.4679	1.4679	1.4679	1.4679	1.4679	1.4679	1.4679	1.4679	1.4679	1.4679	32.5		
41414	395.0	0.95	1.5000	1.4703	0.8688	153	155	155	155	155	158	158	158	158	14687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	32.5		
41914	377.5	0.65	1.4967	1.4719	0.8746	153	157	157	157	158	158	159	162	162	14682	1.4682	1.4682	1.4682	1.4682	1.4682	1.4682	1.4682	1.4682	1.4682	1.4682	1.4682	1.4682	1.4682	1.4682	1.4682	32.5		
42502	393.7	0.65	1.4994	1.4706	0.8699	153	156	156	156	157	157	157	162	162	14686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	32.5		
42503	392.6	0.70	1.4997	1.4700	0.8679	153	156	156	157	157	157	157	157	157	14687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	32.5		
42504	340.5	0.65	1.4993	1.4705	0.8702	152	155	155	156	156	158	158	162	162	14687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	32.5		
42505	375.6	0.60	1.4974	1.4700	0.8678	150	156	156	157	157	157	157	157	157	14688	1.4688	1.4688	1.4688	1.4688	1.4688	1.4688	1.4688	1.4688	1.4688	1.4688	1.4688	1.4688	1.4688	1.4688	1.4688	32.5		
42945	376.8	1.10	1.5000	1.4716	0.8681	155	157	157	159	159	160	160	161	161	14702	1.4702	1.4702	1.4702	1.4702	1.4702	1.4702	1.4702	1.4702	1.4702	1.4702	1.4702	1.4702	1.4702	1.4702	1.4702	34.5		
44265	373.2	0.80	1.4981	1.4713	0.8748	150	157	157	158	158	160	160	168	168	14686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	33.5		
44745	375.1	0.60	1.4952	1.4716	0.8681	153	156	156	157	157	157	162	162	162	14678	1.4678	1.4678	1.4678	1.4678	1.4678	1.4678	1.4678	1.4678	1.4678	1.4678	1.4678	1.4678	1.4678	1.4678	1.4678	34.0		
44736	363.9	0.75	1.5014	1.4718	0.8819	153	156	156	157	157	160	160	176	176	14686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	34.5 <sup>a</sup>		
35641	397.4	0.95	1.4945	1.4701	0.8719	152	156	156	157	157	157	167	167	167	14667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	32.5			
36526	365.8	1.05	1.5000	1.4705	0.8692	153	157	157	158	158	158	158	158	158	14686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	1.4686	32.5		
37854	368.1	0.65	1.4990	1.4703	0.8681	155	157	157	157	157	157	158	158	158	14687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	1.4687	34.0		
37857	368.8	0.75	1.4967	1.4702	0.8679	152	155	155	156	156	157	157	157	157	14674	1.4674	1.4674	1.4674	1.4674	1.4674	1.4674	1.4674	1.4674	1.4674	1.4674	1.4674	1.4674	1.4674	1.4674	1.4674	32.0		
38630	369.2	0.70	1.4991	1.4717	0.8739	154	157	157	158	158	161	161	171	171	14690	1.4690	1.4690	1.4690	1.4690	1.4690	1.4690	1.4690	1.4690	1.4690	1.4690	1.4690	1.4690	1.4690	1.4690	1.4690	34.5		
39641	369.9	0.90	1.5006	1.4710	0.8718	154	157	157	157	157	159	159	163	163	14690	1.4690	1.4690	1.4690	1.4690	1.4690	1.4690	1.4690	1.4690	1.4690	1.4690	1.4690	1.4690	1.4690	1.4690	1.4690	34.5		
40445	369.1	1.00	1.4903	1.4702	0.8707	150	156	156	156	156	158	158	159	159	14667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	31.5		
40446	368.9	1.30	1.4887	1.4687	0.8660	152	156	156	156	156	157	157	162	162	14667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	1.4667	31.5		
41400	365.3	1.10	1.4914	1.4697	0.8669	152	157	157	158	158	159	159	162	162	14664	1.4664	1.4664	1.4664	1.4664	1.4664	1.4664	1.4664	1.4664	1.4664	1.4664	1.4664	1.4664	1.4664	1.4664	1.4664	31.0		
44256	369.5	1.00	1.5000	1.4710	0.8666	155	157	157	158	158	159	159	161	161	14698	1.4698	1.4698	1.4698	1.4698	1.4698	1.4698	1.4698	1.4698	1.4698	1.4698	1.4698	1.4698	1.4698	1.4698	1.4698	31.0		
1257	365.0	0.75	1.4980	1.4711	0.8730	154	158	158	158	158	158	160	160	160	14683	1.4683	1.4683	1.4683	1.4683	1.4683	1.4683	1.4683	1.4683	1.4683	1.4683	1.4683	1.4683	1.4683	1.4683	1.4683	31.0		
II	372.5	1.00	1.5003	1.4702	.....	155	157	157	157	157	157	158	158	158	14683	1.4683	1.4683	1.4683	1.4683	1.4683	1.4683	1.4683	1.4683	1.4683	1.4683	1.4683	1.4683	1.4683	1.4683	1.4683	.....		

Somewhat irregular.

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TABLE III.

Designation of Sample.	Hübl Iodine Number.	Residue from 10 cc. insoluble in H <sub>2</sub> SO <sub>4</sub> .	Refractive index of insoluble residue.	Refraction index of the Sample.	Specific gravity of the Sample.	FRACTIONATION OF 100 CC.				REFRACTIVE INDICES OF FRACTIONS AND RESIDUES.					VOLUMES OBTAINED FROM 100 CC.												Flash Point.					
						1st 25 cc.	2nd 25 cc.	3rd 25 cc.	Next 15 cc.	1st 25 cc.	2nd 25 cc.	3rd 25 cc.	Next 15 cc.	Residue.	Res. 25 cc.	Under 150°	150°-154°	155°-159°	160°-164°	165°-169°	170°-174°	175°-179°	180°-184°	185°-189°	190°-194°	195°-199°		200°-				
A	225.5	3.1	1.4913	1.4704	0.8705	155-160	160-162	162-167	167-176	1.4677	1.4687	1.4706	1.4726	1.4873				20	46	16	7	1									35.5	
B	344.4	7	1.4986	1.4678	0.8681																											
C	317.1	9	1.4948	1.4696	0.8664																											
D	331.5	9	1.4884	1.4678	0.8670																											
E	349.1	55	1.4971	1.4688	0.8700																											
F	290.3	6	1.4947	1.4750	0.9065																											
G	247.8	35	1.5013	1.4800	0.9288																											
I	238.0	4.15	1.4690	1.4631		148-159	159-165	165-180	180-215	1.4564	1.4624	1.4646	1.4663	1.4776			2	9	17	22	16	6	3	5	3	1	1	5			30.5	
K	211.4	4.0	1.4634	1.4651	0.8562	151-161	161-164	165-177	177-206	1.4603	1.4640	1.4655	1.4668	1.4830			4	19	21	16	10	10	4	2	1	1	2				35.	

## APPENDIX G.

## BULLETIN No. 202—PACKAGED FRUIT.

OTTAWA, August 5, 1910.

W. J. GERALD, Esq.,

Deputy Minister of Inland Revenue.

SIR,—I have the honour to submit, herewith, a report upon the examination of four hundred and thirty-eight (438) samples of packaged fruit, purchased by our inspectors, throughout the Dominion, in April and May of this year.

The collection is made up as follows:—

	Samples.
Apples (evaporated).....	2
Currants .....	121
Dates .....	54
Figs.....	16
Prunes .....	2
Raisins .....	243

Total..... 438

In as much as the two packages required (by section 15 subsection 3 of the Act) to be sent to this laboratory, were, in most instances, separate packages, as offered for sale, they have been separately reported upon, and each collector's number represents two samples, which are distinguished as (a) and (b).

The examination includes:—

1. Identification of the contents of the package.
2. Net weight of contents of the package.
3. Report as to quality of the fruit.
4. Examination of the soundness; *i.e.*, freedom from mould or fungus; decay; worminess.
5. Examination of the cleanliness.

In all cases the fruit has been found true to name. An inspector's blunder makes No. 42309 (a) raisins, while 42309 (b) is currants.

It will be noted that, with very few exceptions, the cartons or packages, approximate to one pound (16 oz) in weight. Four packages are evidently meant to contain two pounds each; and in a few fancy packages, particularly in the case of figs, the weight is about half a pound. Many of the samples are declared on the package to be of one pound weight, but a large number make no statement of weight. Our Adulteration Act, takes no account of the matter of guaranteed weight, an omission that should be rectified at next revision. While it may not be desirable to require a statement of net weight, in all cases, it is reasonable to exact that, when such a statement is made, it shall be lived up to.

The following synopsis gives details of the weights of packaged fruits examined.

*Raisins.*

	Samples.
16 ounces, or over .....	84
15 to 16 ounces .....	103
14 to 15 " .....	30
13 to 14 " .....	5
12 to 13 " .....	7
Below 12 " .....	13
Sample omitted .....	1

Total..... 243

## SESSIONAL PAPER No. 14

*Currants.*

	Samples.
16 ounces or over.....	13
15 to 16 ounces.....	45
14 to 15 ".....	53
13 to 14 ".....	9
12 to 13 ".....	1
Total.....	121

*Dates.*

	Samples.
16 ounces or over.....	5
15 to 16 ounces.....	7
14 to 15 ".....	14
13 to 14 ".....	18
12 to 13 ".....	6
Below 12 ".....	3
Sample accidentally lost.....	1
Total.....	54

The quality of the fruit as regards size and general excellence, is stated with as much accuracy as possible; but no claim is made for technical exactness on this point.

Section 3 (*a*) of the Adulteration Act, states that 'Food shall be deemed to be adulterated within the meaning of this Act, if it consists wholly or in part of a diseased or decomposed or putrid or rotten animal or vegetable substance, whether manufactured or not.' Under this section I have condemned twelve samples as adulterated, on account of decay, mouldiness or worminess.

It is not necessarily the fault of the packer when such a state of things exists in case of a perishable article, like fruit. The fly-specked condition of some of these packages is sufficient to prove that they have been exposed to flies, and, it may be for a considerable length of time. It seems not unreasonable to hold the retail vendor responsible for the soundness of such perishable goods, unless he can prove that he received them, in this condition, from the wholesale dealer or packer. Seventeen samples are adjudged as 'doubtful.'

The inspection was undertaken because of several complaints received from purchasers of packaged fruit, who found the articles supplied to them to be unfit for food. The results show that most of the packaged fruit offered in Canada is of excellent quality; but cases occur where, through carelessness, or other cause, complaints on the part of consumers are well founded.

I beg to recommend the publication of this report as Bulletin No. 212.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,  
*Chief Analyst.*



2 GEORGE V., A. 1912

BULLETIN No. 212—

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.		
DISTRICT OF NOVA SCOTIA—							
1910.							
April 20	Raisins. . .	41966a	Share & Campbell, Halifax, N.S.	3 pkgs	30	Phoenix Packing Co., Fresno, Cal.	'Pilgrim' brand.
" 20	" . . .	41966b	.....	.....	.....	.....	" . . .
" 20	Currants. .	41967a	G. A. Cook & Co., Halifax, N.S.	3 "	30	A. F. Zine, Patras, Greece	'Fairy Cake' brand.
" 20	" . . .	41967b	.....	.....	.....	.....	" . . .
" 20	Raisins. . .	41968a	" " . . .	3 "	30	Guggenhime & Co., California.	'Daphne' brand
" 20	" . . .	41968b	.....	.....	.....	.....	" . . .
" 20	" . . .	41969a	Wentzelis, Ltd., Halifax.	3 "	30	J. K. Armsby, Fresno, Cal.	'Pontiac' brand
" 20	" . . .	41969b	.....	.....	.....	.....	" . . .
" 20	Currants. .	41970a	T. F. Courtney & Co., Halifax.	3 "	30	Bauld Bros., Halifax, N.S.	'Thistle' brand.
" 20	" . . .	41970b	.....	.....	.....	.....	" . . .
May 3	Raisins. . .	41971a	R. B. Adams & Co., Halifax.	3 "	30	" " . . .	'Swan' brand..
" 3	" . . .	41971b	.....	.....	.....	.....	" . . .
" 3	" . . .	41972a	J. D. Stewart, Halifax	3 "	36	Griffen & Skelley, Fresno, Cal.	'Easter' brand..
" 3	" . . .	41972b	.....	.....	.....	.....	" . . .
" 3	" . . .	41973a	E. Donahoe & Son, Halifax.	3 "	30	" " . . .	Seedless raisins..
" 3	" . . .	41973b	.....	.....	.....	.....	" . . .
" 4	Currants. .	41974a	J. A. Leamean & Co., Branch 4, Halifax.	3 "	24	Unknown. . . . .	'New Years' Cake' brand.
" 4	" . . .	41974b	.....	.....	.....	.....	" . . .
" 4	Raisins. . .	41975a	J. F. Delaney, Halifax	3 "	35	Gugginhime & Co., California.	'Rosedale' brand
" 4	" . . .	41975b	.....	.....	.....	.....	" . . .
" 4	" . . .	41976a	G. Wakefield, Halifax.	3 "	30	Hills Bros. Co., New York.	'Eagle' brand..
" 4	" . . .	41976b	.....	.....	.....	.....	" . . .
" 5	" . . .	41977a	J. F. Crowe & Co., Halifax.	3 "	25	Guggenhime & Co., California.	'Gazelle' brand.
" 5	" . . .	41977b	.....	.....	.....	.....	" . . .
" 5	Currants. .	41978a	" " . . .	3 "	25	Hills Bros. Co., New York.	'Purity' brand..
" 5	" . . .	41978b	.....	.....	.....	.....	" . . .
" 10	" . . .	41979a	B. H. Dodge, Kentville, N.S.	3 "	25	Hills Bros. Co., New York.	'Excelsior' brand

## SESSIONAL PAPER No. 14

## PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		
Raisins in parchment paper in a cardboard carton.	16·0	Genuine	Good, good size and soft.	Sound..	Clean..	.....	41966a	
" " ..	16·0	"	Fair, rather small; fairly soft.	"	"	.....	41966b	
Currants in parchment paper in a cardboard carton.	15·5	"	Fair, small and dry	"	Fairly clean.	.....	41967a	
" " ..	15·5	"	Fair, good size; fairly soft.	"	"	Gritty matter.	41967b	
Raisins in parchment paper in a cardboard carton.	16·0	"	Good, fair size and soft.	"	Clean..	.....	41968a	
" " ..	15·5	"	Good, good size and soft.	"	"	.....	41968b	
" " ..	14·5	"	Good, large and soft.	"	"	.....	41969a	
" " ..	15·0	"	Good, large; rather dry candied.	"	"	.....	41969b	
Currants in a cardboard carton.	14·5	"	Good, good size and soft.	"	"	.....	41970a	
" " ..	14·5	"	" " ..	Mostly sound.	"	.....	41970b	
Raisins in cardboard carton.	16·0	"	Fair, small size ...	Sound..	Dirty...	.....	41971a	
" " ..	16·0	"	Fair, small and rather dry.	Somewi- thered.	Fairly clean.	.....	41971b	
Raisins in parchment paper in a cardboard carton.	15·5	"	Good, rather small, soft.	Sound	Clean...	.....	41972a	
" " ..	15·0	"	" " ..	"	Fairly clean.	.....	41972b	
Raisins in a cardboard carton.	16·0	"	Good, small and soft.	"	Clean...	.....	41973a	
" " ..	16·5	"	" " ..	"	"	.....	41973b	
Currants in parchment paper in a cardboard carton.	15·5	"	Good, large and soft.	"	Fairly clean.	.....	41974a	
" " ..	15·0	"	" " ..	"	Clean..	.....	41974b	
Raisins in parchment paper in a cardboard carton.	16·0	"	" " ..	"	"	.....	41975a	
" " ..	16·0	"	" " ..	"	"	.....	41975b	
" " ..	15·5	"	Good, large, can- died.	"	"	.....	41976a	
" " ..	15·5	"	Good, large, can- died, rather dry.	"	"	.....	41976b	
" " ..	16·0	"	Good, large and soft.	"	"	.....	41977a	
" " ..	15·0	"	Fair, rather small.	"	Fairly clean.	.....	41977b	
Currants in parchment paper in a cardboard carton.	15·5	"	Fair, good size and soft.	"	Not very clean.	.....	41978a	
" " ..	14·5	"	" " ..	"	Clean...	.....	41978b	
Currants in cardboard carton.	14·5	"	Fair, fair size and soft.	"	"	.....	41979a	

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.		

## DISTRICT OF NOVA SCOTIA—

1910.								
May	10	Currants.	41979b				Excelsior' brand	
"	10	Raisins ...	41980a	O. Lyons, Kentville, N.S.	3 pkgs	35	Guggenhime & Co., Cali- fornia.	'Rosedale' brand
"	10	" ..	41980b				" ..	

## DISTRICT OF PRINCE EDWARD ISLAND—

April	20	Currants..	38671a	John McKenna, Charlottetown.	3 pkgs	30	N. Rattenbury, Charlottetown.	'Purity' brand..
"	20	"	38671b					
"	20	"	38672a	H. A. Dunbar, Charlottetown.	3 "	30	N. Rattenbury, Charlottetown.	'Royal Excelsior' brand.
"	20	"	38672b					"
"	20	"	38673a	Sanderson & Co., Charlottetown.	3 "	30	Hills Bros. & Co., New York.	"
"	20	"	38673b					
"	21	"	38674a	James Kennedy, Kensington.	3 "	27	Dearborn & Co., St. John	'Special' brand.
"	21	"	38674b					
"	21	"	38675a	J. A. Hynes, Kensington.	3 "	36	Maritime Spice & Coffee St. John.	'Acorn' brand..
"	21	"	38675b					"
"	21	"	38676a	Waugh & Steeves, Summerside.	3 "	30	Laporte, Martin & Cie, Montreal.	'Mistletoe' brand
"	21	"	38676b					
"	21	"	38677a	Sinclair & Stewart, Summerside.	3 "	24	Chaput fils & Cie, Montreal.	'Chariot' brand
"	21	"	38677b					"
"	21	Raisins..	38678a	D. McKenzie, Kensington.	3 "	33	Guggenheim & Co., California.	'Daphne' brand
"	21	"	38678b					
"	21	"	38679a	J. A. Hynes, Kensington.	3 "	36	Phoenix Package Co., Fresno, Cal.	'Santa Claus' brand.
"	21	"	38679b					"
"	22	"	38680a	R. T. Holman, Ltd., Summerside.	3 "	30	A. J. Tippell Co., Montreal.	Griffins Seedless Raisins.
"	22	"	38680b					"
"	26	"	38681a	P. W. McLeod, Mount Stewart.	3 "	36	Carvell Bros., Charlottetown.	'Easter' brand..
"		"	38681b					"

## SESSIONAL PAPER No. 14

## PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		
R. G. WAUGH, INSPECTOR— <i>Concluded.</i>								
Currants in parchment paper in a cardboard carton.	14.5	Genuine	Fair, fair size and soft.	Sound.	Fairly clean.	.....	41979b	
Raisins in parchment paper in a cardboard carton.	16.0	"	Fair, large and soft	"	Clean...	.....	41980a	
" " "	16.0	"	Good, large, rather dry.	"	"	.....	41980b	

## THEO. MOORE, INSPECTOR.

Currants in parchment paper in a cardboard carton.	14.0	Genuine	Good, large and soft	Sound..	Fairly clean.	.....	38671a	
"	14.0	"	"	"	Clean...	.....	38671b	
"	13.5	"	Mouldy, fair size..	Decayed	Dirty...	Mould..	38672a	Adulterated under sec. 3 (e).
"	14.0	"	Fair, large but dry.	Mostly sound.	Fairly clean.	Some gritty matter.	38672b	"
"	14.0	"	Good, good size and soft.	Sound..	Clean...	.....	38673a	
"	14.0	"	Good, large and soft	"	"	.....	38673b	
"	14.5	"	Good, good size and soft.	"	"	.....	38674a	
"	15.0	"	Good, large and soft	"	"	.....	38674b	
"	14.5	"	"	"	"	.....	38675a	
"	15.0	"	Good, large and rather dry.	"	Fairly clean.	.....	38675b	
Currants in a cardboard carton.	15.0	"	Fair, large and soft	Mostly sound.	"	.....	38676a	
"	14.5	"	"	Sound..	Clean...	.....	38676b	
Currants in parchment paper in cardboard carton.	14.5	"	Good, good size and soft.	"	"	.....	38677a	
"	14.5	"	Good, large and rather dry.	"	Fairly clean.	.....	38677b	
Raisins in parchment paper in cardboard carton.	13.5	"	Fair size, but dry..	"	Clean...	.....	38678a	
"	15.0	"	Good, but rather small and dry.	"	"	.....	38678b	
Raisins in parchment paper in cardboard carton.	15.5	"	Good, large and soft.	"	"	.....	38679a	
"	15.0	"	"	"	Fairly clean.	.....	38679b	
Raisins in a cardboard carton.	16.5	"	Good, small and soft.	"	Clean...	.....	38680a	
"	16.0	"	"	"	"	.....	38680b	
"	14.0	"	Fair, fair size and soft.	"	"	.....	38681a	
"	15.0	"	Good, fair size and soft.	"	"	.....	38681b	

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 as expression of opinion).
				Quantity.	Cents.		

## DISTRICT OF PRINCE EDWARD ISLAND—

1910.							
April 27	Raisins...	38682a	A. McLean & Co., Georgetown.	3 pkgs	30	Griffin & Skelley, California.	'Griffin' brand..
" 27	" .....	38682b					" .....
" 20	Dates.....	38683a	H. A. Dunbar, Charlottetown.	3 "	30	N. Rattenbury, Charlottetown.	'Royal Excelsior' brand.
" 20	" .....	38683b					" .....
" 22	" .....	38684a	R. T. Holman, Summerside.	3 "	21	Hills Bros., New York..	'Anchor' brand.
" 22	" .....	38684b					" .....
" 26	" .....	38685a	A. E. McKinnon, Mount Stewart.	3 "	30	Carvell Bros., Charlottetown.	.....
" 26	" .....	38685b					.....

## DISTRICT OF NEW BRUNSWICK—

April 18	Currants...	39686a	Dearborn & Co., St. John, N.B.	3 pkgs	24	Vendors.....	'Dearborn' brand
" 18	" .....	39686b					" .....
" 18	Raisins...	39687a	Baird & Peters, St. John, N.B.	3 "	25	Rosenberg Bros. & Co., San Francisco, Cal.	'Ensign' brand.
" 18	" .....	39687b					" .....
" 19	Currants...	39688a	G. E. Barbour Co., Ltd., St. John, N.B.	3 "	24	Vendors .....	'Acorn' brand..
" 19	" .....	39688b					" .....
" 28	Raisins...	45215a	H. W. Cole, Ltd., St. John, N.B.	3 "	25	Fresno Home Packing Co., Fresno, Cal.	'Blue Ribbon' brand.
" 28	" .....	45215b					" .....
" 30	Currants...	45216a	2 Barkers, Ltd., St. John, N.B.	3 "	21	Hills Bros., New York..	'Three C.' brand
" 30	" .....	45216b					" .....
May 5	Dates.....	45217a	Hatt, Morrison & Co., Fredericton, N. B.	3 "	30	" " .....	'Anchor' brand.
" 5	" .....	45217b					" .....
" 6	Raisins...	45218a	G. T. Whelpley Estate, Fredericton, N. B.	3 "	36	Griffin & Skelley Co., Fresno, Cal.	'Griffin' brand..
" 6	" .....	45218b					" .....
" 7	Dates .....	45219a	Burden & King, Woodstock, N. B.	3 "	30	A. L. Goodwin & Co., St. John, N. B.	'Eagle' brand..



## SESSIONAL PAPER No. 14

## PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		

THEO. MOORE, INSPECTOR--*Concluded.*

Raisins in a cardboard carton.	16.0	Genuine	Good, large and soft	Sound..	Clean...		38682a	
" " "	16.0	"	" " "	" "	" "		38682b	
Dates in a cardboard carton.	13.5	"	Good, good size and soft.	" "	" "		38683a	
" " "	12.5	"	Good, large and a little dry.	" "	" "		38683b	
" " "	14.5	"	Good, large and soft.	" "	" "		38684a	
" " "	13.5	"	Good, good size and dry.	" "	Fairly clean.		38684b	
" " "	13.5	"	Poor, fair size and very dry.	Rather mouldy	" "	Mould..	38685a	Doubtful.
" " "	13.0	"	Poor, fair size and dry.	Mouldy.	Not clean.	" "	38685b	"

## J. C. FERGUSON, INSPECTOR.

Currants in a cardboard carton.	16.0	Genuine	Poor, good size and dry.	Some decayed	Found worms.	Worms.	39686a	Adulterated under sec.
" " "	15.5	"	Good, large and soft.	Sound..	Fairly clean.	Gritty matter.	39686b	3 (c).
Raisins in parchment paper in a cardboard carton.	15.5	"	Good, fair size and soft.	" "	Clean...		39687a	
" " "	16.0	"	Good, large and rather dry.	" "	" "		39687b	
Currants in parchment paper in a cardboard carton.	15.0	"	Good, large and soft.	" "	" "		39688a	
" " "	15.0	"	Good, good size and fairly soft.	" "	Fairly clean.	A little gritty matter.	39688b	
Raisins in parchment paper in a cardboard carton.	15.5	"	Good, fair size and soft.	" "	Clean..		45215a	
" " "	15.5	"	Good, large and soft.	" "	" "		45215b	
Currants in parchment paper in a cardboard carton.	15.0	"	Good, good size and soft.	" "	" "		45216a	
" " "	14.5	"	" " "	" "	" "		45216b	
Dates in parchment paper in a cardboard carton.	15.0	"	Good, large and soft.	" "	" "		45217a	
" " "	12.5	"	Fair, large and rather dry.	A few decayed	Fairly clean.	Dust...	45217b	Doubtful.
Raisins in parchment paper in a cardboard carton.	16.0	"	" " "	Sound..	Clean..		45218a	
" " "	16.0	"	Good, large and soft.	" "	" "		45218b	
Dates in parchment paper in a cardboard carton.	14.0	"	" " "	" "	" "		45219a	

2 GEORGE V., A. 1912  
BULLETIN No. 212—

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.		
DISTRICT OF NEW BRUNSWICK—							
1910.							
April 7	Dates....	45219 <i>b</i>					Eagle' brand...
" 7	Currants..	45220 <i>a</i>	B. H. Smith & Son, Woodstock, N.B.	3 pkgs	30	Hills Bros. Co., New York.	'Royal Excelsior brand.
" 7	" ..	45220 <i>b</i>					" ..
" 10	Raisins...	45221 <i>a</i>	J. W. McPhail, Perth, N.B.	3 " 3	36	Rosenberg Bros. & Co., San Francisco, Cal.	'Monarch' brand
" 10	" ..	45221 <i>b</i>					" ..
" 10	Currants..	45222 <i>a</i>	E.A.Sloat, Perth, N.B.	3 " "	30	Joses & Schofield, St. John, N.B.	'Parthenon' brand.
" 10	" ..	45222 <i>b</i>					" ..
" 11	" ..	45223 <i>a</i>	Jas. F. McCluskey, Grand Falls, N.B.	3 " "	30	Baird & Peters, St. John, N.B.	'Reindeer' brand
" 11	" ..	45223 <i>b</i>					" ..
" 21	Raisins...	45224 <i>a</i>	J. D. Paulin, New-castle, N.B.	3 " "	30	Madison & Bonner, Fresno, Cal.	'California Seal' brand.
" 21	" ..	45224 <i>b</i>					" ..
" 21	" ..	45225 <i>a</i>	D. & J. Ritchie & Co., Newcastle, N.B.	3 " "	36	Fresno Home Packing Co., Fresno, Cal.	'Red Ribbon brand.
" 21	" ..	45225 <i>b</i>					" ..
" 21	Currants..	45226 <i>a</i>	" " ..	3 " "	30	H. W. Cole, Ltd., St. John, N.B.	'Thistle' brand.
" 21	" ..	45226 <i>b</i>					" ..

## DISTRICT OF QUEBEC—

April 20	Packaged Fruit.	36553 <i>a</i>	G. Marquis, Batiscan, P.Q.	3 pkgs	30	L. Chaput fils & Co., Montreal.	
" 20	" ..	36553 <i>b</i>					
" 21	" ..	36554 <i>a</i>	E. Degnise, St. Geneviève.	3 " "	30	" "	
" 21	" ..	36554 <i>b</i>					
" 21	" ..	36555 <i>a</i>	" " ..	3 " "	30	" "	
" 21	" ..	36555 <i>b</i>					
" 21	" ..	36556 <i>a</i>	A. A. St. Arneaud, St. Geneviève.	3 " "	24	Hudon & Aselin, Montreal.	

## SESSIONAL PAPER No. 14

## PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		

J. C. FERGUSON, INSPECTOR—*Concluded.*

Dates in parchment paper in a cardboard carton.	13.5	Genuine	Good, large, soft.	Sound.	Clean		45219b	
Currants in parchment paper in a cardboard carton.	14.0	"	Good, fair size and soft.	"	"		45220a	
" " "	14.0	"	Good, large and soft.	"	"		45220b	
Raisins in parchment paper in a cardboard carton.	16.0	"	Good, good size and rather dry.	"	"		45221a	
" " "	16.0	"	" " "	"	"		45221b	
Currants in parchment paper in a cardboard carton.	14.5	"	Good, large and soft.	"	"		45222a	
" " "	15.0	"	Good, good size and soft.	"	Fairly clean.		45222b	
" " "	14.5	"	Good, fair size and soft.	"	Clean		45223a	
" " "	14.0	"	Good, large and soft.	"	Fairly clean.		45223b	
Raisins in parchment paper in a cardboard carton.	16.0	"	Good, rather small and soft.	"	Clean		45224a	
" " "	16.0	"	Good, good size and soft.	"	"		45224b	
" " "	16.5	"	Fair, fair size and soft.	"	"		45225a	
" " "	16.0	"	Fair, rather small. soft.	A few withered	"		45225b	
Currants in parchment paper in a cardboard carton.	15.0	"	Good, fair size and pretty soft.	Sound.	"		45226a	
" " "	14.5	"	Good, good size and soft.	"	"		45226b	

E. BELAND, INSPECTOR.

Currants in a cardboard carton.	16.0	Genuine	Poor, fair size, dry	Some mouldy	Not clean.	Mouldy and grit	36553a	Doubtful.
" " "	16.0	"	"	Somede- cayed & mouldy	"	Dust & mould.	36553b	"
Raisins in parchment paper in a cardboard carton.	15.0	"	Very good, good size and soft.	Sound.	Clean		36554a	
" " "	14.0	"	Fair, fair size and rather dry.	"	Fairly clean.		36554b	
Currants in parchment paper in a cardboard carton.	14.0	"	Good, fair size and soft.	Mostly sound.	"	Some gritty matter.	36555a	
" " "	14.0	"	Good, good size and soft.	Sound.	Clean		36555b	
Raisins in parchment paper in a cardboard carton.	11.0	"	Good, fair size and soft.	"	"		36556a	

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.		
DISTRICT OF QUEBEC—							
1910.							
April 21	Packaged Fruit.	36556b					
" 21	" ..	36557a	T. U. St. Arnaud, St. Geneviève.	3 pkgs	30	Hudon & Hebert, Montreal.	
" 21	" ..	36557b					
" 21	" ..	36558a	D. Baribeau, St. Geneviève.	3 "	30	Laporte - Martin, Montreal.	
" 21	" ..	36558b					
" 25	" ..	36559a	T. Gagnon, St. Stanislas.	3 "	30	Unknown	
" 25	" ..	36559b					
" 28	" ..	36560a	C. S. Riverin, 55 Rue de la Couronne, Que.	3 "	30	Turcotte & Frere, Quebec	
" 28	" ..	36560b					
" 28	" ..	36561a	" " "	3 "	45	" "	
" 28	" ..	36561b					
" 28	" ..	36562a	Myrand & Pouliot, 70 Rue de la Couronne, Que.	3 "	36	J. B. Reneaud & Co., Quebec.	
" 28	" ..	36562b					
" 28	" ..	36563a	" " "	3 "	36	" "	
" 28	" ..	36563b					
" 28	" ..	36564a	" " "	3 "	36	" "	
" 28	" ..	36564b					
" 28	" ..	36565a	O. Lacroix, 19 Rue St. Joseph, Que.	3 "	36	N. Turcotte & Co., Quebec.	
" 28	" ..	36565b					
" 28	" ..	36566a	" " "	3 "	30	J. B. Renaud & Co., Quebec.	
" 28	" ..	36566b					
" 28	" ..	36567a	Cantin & Frere, 271 Rue St. Joseph, Que.	3 "	30	" "	
" 28	" ..	36567b					

## SESSIONAL PAPER No. 14

## PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		
Raisins in parchment paper in a cardboard carton.	10.5	Genuine	Poor, fair size and dry.	A few decayed	Not clean.	Some insect excreta.	36556b	Adulterated under Sec. 3 (e).
" " "	15.0	"	Good, large and soft.	Sound ..	Clean ..	.....	36557a	
" " "	15.5	"	Good, large and rather dry.	" ..	" ..	.....	36557b	
" " "	15.5	"	Good, fair size and soft.	" ..	" ..	.....	36558a	
" " "	15.5	"	Good, rather small, soft.	" ..	" ..	.....	36558b	
Currants in parchment paper in a cardboard carton.	14.5	"	Good, fair size, soft	" ..	Fairly clean.	.....	36559a	
" " "	15.0	"	Good, large and soft.	" ..	" ..	.....	36559b	
Raisins in parchment paper in a cardboard carton.	12.0	"	Bad, fair size and soft.	Contains many worms.	Dirty...	Worms and excreta.	36560a	"
" " "	12.5	"	Bad, rather small, old and dry.	Mostly decayed	" ..	Insect excreta.	36560b	"
Currants in parchment paper in a cardboard carton.	15.0	"	Good, rather small	Sound ..	Clean ..	.....	36561a	
" " "	15.0	"	Fair, fair size and rather dry.	" ..	Fairly clean.	Gritty matter.	36561b	
Raisins in a cardboard carton.	15.0	"	Good, rather small	" ..	Clean ..	.....	36562a	
" " "	15.0	"	Good, small and soft.	" ..	" ..	.....	36562b	
Raisins in parchment paper in cardboard carton.	11.0	"	Good, good size and soft.	" ..	" ..	.....	36563a	
" " "	12.0	"	Fair, fair size and dry.	" ..	" ..	.....	36563b	
" " "	14.5	"	Fair, good size, very dry.	" ..	" ..	.....	36564a	
" " "	16.0	"	Fair, small and dry	" ..	Fairly clean.	.....	36564b	
" " "	13.0	"	Good, fair size and soft.	" ..	" ..	.....	36565a	
" " "	16.0	"	Bad, large and very dry.	Some decayed	Dirty...	Insect excreta.	36565b	"
Currants in parchment paper in cardboard carton.	14.5	"	Good, large and soft.	Sound ..	Clean ..	.....	36566a	
" " "	14.0	"	"	" ..	" ..	.....	36566b	
Raisins in parchment paper in cardboard carton.	15.0	"	"	" ..	" ..	.....	36567a	
" " "	15.5	"	"	" ..	" ..	.....	36567b	

E. BELAND, INSPECTOR—*Concluded.*



2 GEORGE V., A. 1912

BULLETIN No. 212—

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.		

## DISTRICT OF ST. HYACINTHE—

1910.							
April 21	Currants..	40480a	Roger & Fissette, Sherbrooke.	3 pkgs	38		'Chariot' brand.
" 21	" ..	40480b					" ..
" 21	Raisins...	40481a	" " ..	3 "	38		'Easter' brand.
" 21	" ..	40481b					" ..
" 25	" ..	40482a	Gum & Elliott, Richmond, P.Q.	3 "	30		'Gold Bar' brand
" 25	" ..	40482b					" ..
" 25	Currants..	40483a	H. P. Wales, Richmond, P.Q.	3 "	30		'Venus' brand..
" 25	" ..	40483b					" ..
May 2	" ..	40484a	Boright & Safford, Sutton, P.Q.	3 "	30		'Royal' brand..
" 2	" ..	40484b					" ..
" 2	Raisins...	40485a	" " ..	3 "	30		'Raven' brand.
" 2	" ..	40485b					" ..
" 2	" ..	40486a	E. B. Presly, Sutton, P.Q.	3 "	30		'Daphne' brand
" 2	" ..	40486b					" ..
" 2	Currants..	40487a	H. W. Call, Sutton, P.Q.	3 "	25		'Parthenon' brand.
" 2	" ..	40487b					" ..
" 2	Dates ....	40488a	Smith, Flannery & Jenne, Sutton, P.Q.	3 "	25		'Camel' brand..
" 2	" ..	40488b					" ..
" 3	Raisins...	40489a	Hebert & Jolin, Waterloo, P.Q.	3 "	30		'Griffin' brand..
" 3	" ..	40489b					" ..
" 3	Currants..	40490a	N. O. Rockwell, Waterloo, P.Q.	3 "	30		'Quaker' brand.
" 3	" ..	40490b					" ..
" 3	Dates ...	40491a	W. R. Horner, Granby, P.Q.	3 "	30		'Royal Excelsior' brand.

## SESSIONAL PAPER No. 14

## PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		

J. J. COSTIGAN, ACTING INSPECTOR.

Currants in parchment paper in cardboard carton.	15 0	Genuine	Fair, good size, rather dry.	Mostly sound.	Fairly clean.	.....	40480a	
" " "	15 0	"	Fair, fair size and soft.	Sound ..	" ..	A little gritty matter.	40480b	
Raisins in parchment paper in cardboard carton.	16 0	"	Fair, large and soft	" ..	Clean ..	.....	40481a	
" " "	15 5	"	Good, good size and soft.	" ..	" ..	.....	40481b	
" " "	16 0	"	Good, large and soft.	" ..	" ..	.....	40482a	
" " "	15 5	"	Good, very large and soft.	" ..	" ..	.....	40482b	
Currants in parchment paper in cardboard carton.	15 0	"	Good, large and soft.	" ..	" ..	.....	40483a	
" " "	16 0	"	Large and fairly soft.	" ..	Fairly clean.	.....	40483b	
" " "	14 0	"	Large, fair size and soft.	" ..	Clean ..	.....	40484a	
" " "	13 5	"	Large and soft....	" ..	" ..	.....	40484b	
Raisins in parchment paper in cardboard carton.	14 5	"	Fair size, but dried up.	" ..	Fairly clean.	.....	40485a	
" " "	16 0	"	Fair, fair size and soft.	" ..	" ..	.....	40485b	
" " "	16 0	"	Good, fair size; a little dry.	" ..	Clean ..	.....	40486a	
" " "	16 0	"	Good size and rath- er dry.	" ..	" ..	.....	40486b	
Currants in parchment paper in cardboard carton.	14 5	"	Good, fair size and soft.	" ..	" ..	.....	40487a	
" " "	15 0	"	"	" ..	Fairly clean.	.....	40487b	
Dates in parchment paper in a cardboard carton.	13 0	"	Good, good size and soft.	" ..	Clean ..	.....	40488a	
" " "	14 0	"	Good, fair size and dry.	" ..	" ..	.....	40488b	
Raisins in parchment paper in a cardboard carton.	16 0	"	Good, good size and soft.	" ..	" ..	.....	40489a	
" " "	16 0	"	Good, large and soft.	" ..	" ..	.....	40489b	
Currants in parchment paper in a cardboard carton.	15 5	"	"	" ..	" ..	.....	40490a	
" " "	16 0	"	"	" ..	" ..	.....	40490b	
Dates in parchment paper in a cardboard carton.	15 0	"	"	" ..	" ..	.....	40491a	

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.		

## DISTRICT OF ST. HYACINTHE—

1910.							
May	3 Dates . . . .	40491 <i>b</i>					Royal Excelsior brand.
"	3 Currants..	40492 <i>a</i>	W. R. Horner, Granby, P.Q.	3 pkgs	30		'Mistletoe' brand
"	3 " . . . .	40492 <i>b</i>					" ..
"	3 Raisins...	40493 <i>a</i>	Monty Freres, Granby, P.Q.	3 "	45		'King Edward brand.
"	3 " . . . .	40493 <i>b</i>					" ..
"	3 Currants..	40494 <i>a</i>	" " "	3 "	30		'Purity' brand..
"	3 " . . . .	40494 <i>b</i>					" ..

## DISTRICT OF MONTREAL—

April	19 Raisins...	1121 <i>a</i>	J. B. A. Valois, Vaudreuil.	3 pkgs	36	L. Chaput fils & Co., Montreal.	
"	19 " . . . .	1121 <i>b</i>					
"	19 " . . . .	1122 <i>a</i>	G. Daoust & Cie, St. Anne de Bellevue.	3 "	35	Unknown	
"	19 " . . . .	1122 <i>b</i>					
"	21 Currants..	1123 <i>a</i>	The Industrial Co-op. Soc., Ltd., Valleyfield	3 "	30	Laporte, Martin & Co., Montreal.	
"	21 " . . . .	1123 <i>b</i>					
"	29 Dates . . . .	1124 <i>a</i>	A. Allard, Lachine...	3 "	25	Unknown	
"	27 " . . . .	1124 <i>b</i>					
May	3 Currants..	1125 <i>a</i>	Mde. Jos. Gervais, Verdun, P.Q.	3 "	30	Larue & Cloutier, Montreal.	
"	3 " . . . .	1125 <i>b</i>					
"	3 Raisins...	1126 <i>a</i>	W. Hynes, Chateauguay, P.Q.	3 "	36	Lalonde & Deroches, Montreal.	
"	3 " . . . .	1126 <i>b</i>					
"	3 Figs . . . .	1127 <i>a</i>	C. J. Spenard, 420 St. Jas. E., Montreal.	3 boxes	45	Lockerby Bros., Montreal	
"	3 " . . . .	1127 <i>b</i>					
"	6 Dates . . . .	1128 <i>a</i>	Geo. Primeau, 1392 St. Denis St., Montreal.	3 pkgs	30	Callaghan & Collins....	
"	6 " . . . .	1128 <i>b</i>					

## SESSIONAL PAPER No. 14

## PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remark and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		

J. J. COSTIGAN, ACTING INSPECTOR—*Concluded.*

Dates in parchment paper in a cardboard carton.	15·0	Genuine	Good, large and soft.	A few decayed	Fairly clean.		40491b	
Currants in a cardboard carton.	15·0	"	"	Sound	Clean		40492a	
" " "	15·0	"	Good, good size and soft.	"	Fairly clean.	Gritty matter.	40492b	
Raisins in a cardboard carton.	15·5	"	Fair, small and rather dry.	"	Clean		40493a	
" " "	15·5	"	"	"	Fairly clean.	Dust...	40493b	
Currants in parchment paper in a cardboard carton.	14·5	"	Good, good size and soft.	"	Clean		40494a	
" " "	14·5	"	Good, large and soft.	"	"		40494b	

## J. C. ROULEAU, ACTING INSPECTOR.

Raisins in parchment paper in a cardboard carton.	16·0	Genuine	Fair, small and soft.	Sound..	Clean		1121a	
" " "	15·0	"	Good, good size and soft.	"	Fairly clean.		1121b	
" " "	16·5	"	Good, good size, rather dry.	"	Clean		1122a	
" " "	16·0	"	Good, fair size, soft	"	"		1122b	
Currants in parchment paper in a cardboard carton.	14·5	"	Good, good size and a little dry.	Mostly sound.	Not very clean.		1123a	
" " "	14·0	"	Fair, fair size and soft.	A few decayed	Fairly clean.		1123b	
Dates in parchment paper in a cardboard carton.	14·5	"	Good, large and soft.	Sound..	Clean		1124a	
" " "	13·0	"	"	"	"		1124b	
Currants in parchment paper in a cardboard carton.	15·5	"	"	"	"		1125a	
" " "	15·0	"	Good, good size and soft.	"	Fairly clean.		1125b	
Raisins in parchment paper in a cardboard carton.	15·0	"	Fair size but rather dry.	"	"		1126a	
" " "	14·0	"	"	"	"		1126b	
Figs in a wooden box..	14·5	"	Good, large and soft.	"	Clean		1127a	
" " "	14·5	"	Good, large, rather dry.	"	"		1127b	
Dates in fancy paper..	16·0	"	Good, large and soft.	"	"		1128a	
Dates in parchment paper in a cardboard carton.	16·5	"	"	"	"		1128b	

2 GEORGE V., A. 1912  
BULLETIN No. 212—

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.		

## DISTRICT OF MONTREAL—

1910							
May	6 Figs.....	1129a	J. O. Dégiel, 630 Parc Lafontaine, Montreal	3 pkgs	30	Unknown .....	
"	5 " .....	1129b					
"	6 Raisins...	1130a	L. Galarneau, 680 Papineau St., Montreal.	3 "	36	Hudon, Hebert & Co., Montreal.	
"	6 " .....	1130b					
"	6 Figs.....	1131a	N. Seguin, 1458 Ontario E., Montreal.	3 "	25	" "	
"	6 " .....	1131b					
"	10 Raisins...	1132a	T. Auclair, Chambly Canton.	3 "	36	L. Chaput fils & Co., Montreal.	
"	10 " .....	1132b					
"	11 " .....	1133a	William Augéne, 57 Craig St., Montreal.	2 "	20	Michel Nassif, Montreal.	
"	11 " .....	1133b					
"	11 Dates ....	1134a	M. Adelson, 91 Craig W., Montreal.	3 "	30	M. L. Rickner & Co., Montreal.	
"	11 " .....	1134b					
"	11 Raisins...	1135a	Arsene Lamy, 481 Notre Dame W., Montreal.	3 "	30	Vendor .....	
"	11 " .....	1135b					

## DISTRICT OF OTTAWA—

April	20 Raisins...	42958a	A. J. McAdam, Almonte.	3 pkgs	30	Robertson & Nicolle, Kingston.	'Elk' brand....
"	20 " .....	42958b					" .....
"	20 Currants..	42959a	Fred W. Robertson, Almonte.	3 "	30	Gilmour & Co., Brockville.	'Toto' brand...
"	20 " .....	42959b					" .....
"	21 Raisins...	42960a	D. J. McDonald, Alexandria.	3 "	30	Forbes Bros., Montreal.	'Dragon' brand
"	21 " .....	42960b					" .....
"	21 Currants..	42961a	P. A. Huot & Son, Alexandria.	3 "	30	Unknown.....	'Royal Excelsior' brand.
"	21 " .....	42961b					" .....



SESSIONAL PAPER No. 14  
PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		
J. C. ROULEAU, ACTING INSPECTOR— <i>Concluded.</i>								
Figs in a wooden box..	8.5	Genuine	Bad, good size, very dry.	Wormy.	Dirty...	Worms & worm excreta.	1129a	Adulterated under Sec. 3 (e).
" " ..	8.0	"	Bad, large, old, dry	Decayed and wormy	" ..	" ..	1129b	
Raisins in parchment paper in a cardboard carton.	16.0	"	Good, large and soft.	Sound	Clean .....		1130a	
" " ..	15.5	"	"	" ..	" ..		1130b	
Figs in a fancy basket.	9.0	"	Good, good size and soft.	" ..	" ..		1131a	
" " ..	9.0	"	Fair, good size, rather dry.	" ..	Fairly clean.		1131b	
Raisins in parchment paper in a cardboard carton.	16.0	"	Good, large and soft.	" ..	Clean .....		1132a	
" " ..	15.0	"	Good, good size and soft.	" ..	" ..		1132b	
" " ..	10.5	"	Fair, fair size, rather dry.	" ..	Fairly clean.		1133a	
" " ..	11.0	"	Good, good size and a little dry.	" ..	Clean .....		1133b	
Dates in parchment paper in a cardboard carton.	13.0	"	Good, good size and soft.	" ..	" ..		1134a	
" " ..	13.5	"	Good, large and soft.	" ..	" ..		1134b	
Raisins in parchment paper in a cardboard carton.	16.0	"	Good, fair size and soft.	" ..	" ..		1135a	
" " ..	16.0	"	"	" ..	" ..		1135b	

## J. A. RICKEY, INSPECTOR.

Raisins in parchment paper in a cardboard carton.	15.5	Genuine	Good, small and soft.	Sound	Clean...		42958a	
" " ..	15.5	"	" " ..	" ..	" ..		42958b	
Currants in parchment paper in a cardboard carton.	16.0	"	Good, good size and soft.	" ..	" ..		42959a	
" " ..	15.5	"	" " ..	" ..	" ..		42959b	
Raisins in parchment paper in a cardboard carton.	12.5	"	Good, fair size and soft.	" ..	" ..		42960a	
" " ..	11.5	"	Good, good size and soft.	" ..	Fairly clean.		42960b	
Currants in parchment paper in a cardboard carton.	14.0	"	" " ..	" ..	Clean ..		42961a	
" " ..	13.5	"	Good, large and soft.	" ..	" ..		42961b	

2 GEORGE V., A. 1912

BULLETIN No. 212—

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.		

## DISTRICT OF OTTAWA—

1910.							
April 21	Raisins...	42962a	Sabourin & Campeau, Alexandria.	3 pkgs	35	Unknown .....	'Our Own' brand
" 21	" ..	42962b	.....	.....	.....	.....	" ..
" 22	Dates ...	42963a	P. J. Campbell, Renfrew.	3 "	30	Unknown .....	'Camel' brand..
" 22	" ..	42963b	.....	.....	.....	.....	" ..
" 22	Raisins...	42964a	N. Dean & Son, Renfrew.	3 "	30	Robertson & Nicolle, Kingston.	'Polley' brand .
" 22	" ..	42964b	.....	.....	.....	.....	" ..
" 27	Apples...	42965a	J. F. McEwen, Bank St., Ottawa.	3 "	15	Unknown.....	'Royal' brand..
" 27	" ..	42965b	.....	.....	.....	.....	" ..
" 27	Raisins ..	42966a	W. B. Graham, Bank St., Ottawa.	3 "	38	Unknown .....	'Regal' brand..
" 27	" ..	42966b	.....	.....	.....	.....	" ..
" 27	Dates ...	42967a	Calderone & Bossio, Ottawa.	3 "	30	Corby & Foulkes, Ottawa	'Royal Excelsior' brand.
" 27	" ..	42967b	.....	.....	.....	.....	" ..
" 28	Currants ..	42968a	R. McGregor, Sparks St., Ottawa.	3 "	30	F. J. Castle Co., Ottawa	'Globe' brand..
" 28	" ..	42968b	.....	.....	.....	.....	" ..
" 28	" ..	42969a	C. B. McLean, Bank St., Ottawa.	3 "	30	Rose & Laflamme, Montreal.	'Mistletoe' brand.
" 28	" ..	42969b	.....	.....	.....	.....	" ..
" 28	" ..	42970a	A. Parkinson & Son, Kemptville, Ont.	3 "	30	Unknown .....	'Toto' brand...
" 28	" ..	42970b	.....	.....	.....	.....	" ..
" 29	" ..	42971a	Jas. L. P. Sanders, Kemptville, Ont.	3 "	30	Unknown.....	'Swan' brand..
" 29	" ..	42971b	.....	.....	.....	.....	" ..
" 29	Raisins...	42972a	Mundle & Percival, Kemptville, Ont.	3 "	30	Unknown.....	'Griffin's Seedless' brand.
" 29	" ..	42972b	.....	.....	.....	.....	" ..

## DISTRICT OF KINGSTON—

April 15	Raisins...	44277a	A. Glover, Kingston..	3 pkgs	45	Griffin & Skelley Co., Fresno, Cal.	.....
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## SESSIONAL PAPER No. 14

## PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		
Raisins in parchment paper in a cardboard carton.	16.5	Genuine	Good, large and soft.	Sound..	Clean ..		42962a	
" " ..	16.0	"	Good, large, rather dry.	" ..	" ..		42962b	
Dates in parchment paper in a cardboard carton.	14.5	"	Poor, good size and soft.	Some decay.	Not clean.		42963a	
" " ..	13.5	"	Good, fair size and soft.	Sound..	Clean ..		42963b	
Raisins in parchment paper in a cardboard carton.	15.5	"	Good, good size and soft.	" ..	" ..		42964a	
" " ..	16.0	"	Good, rather small and soft.	" ..	" ..		42964b	
Evaporated apples in cardboard carton.	7.5	"	Poor, good size, but broken.	Fairly sound	Dirty..	Fly excreta	42965a	Doubtful.
" " ..	7.0	"	" " ..	" ..	" ..		42965b	"
Raisins in cardboard carton.	15.5	"	Bad condition and small.	Decayed	Dirty ..		42966a	Adulterated under See 3(c)
" " ..	15.5	"	Bad, small and dry, much decayed.	Unfit for use	Dirty ..	Insect excreta.	42966b	"
Dates in parchment paper in a cardboard carton.	14.0	"	Good, good size and soft.	Sound..	Fairly clean		42967a	
" " ..	14.0	"	Good, large and soft.	" ..	Clean ..		42967b	
Currants in cardboard carton.	15.0	"	Good, good size, soft.	" ..	" ..		42968a	
" " ..	15.0	"	Good, large and soft.	" ..	" ..		42968b	
" " ..	14.5	"	Fair, fair size....	" ..	Fairly clean		42969a	
" " ..	15.5	"	Good, large and soft.	" ..	Clean ..		42969b	
Currants in parchment paper in a cardboard carton.	14.5	"	Good, good size and soft.	" ..	Clean ..		42970a	
" " ..	14.5	"	" " ..	" ..	" ..		42970b	
" " ..	15.0	"	Good, large and soft.	Mostly sound	Fairly clean.		42971a	
" " ..	15.5	"	" " ..	" ..	Clean ..		42971b	
Raisins in a cardboard carton.	16.0	"	Good, small and dry.	Sound..	" ..		42972a	
" " ..	16.0	"	Good, small and soft.	" ..	" ..		42972b	

## JAS. HOGAN, INSPECTOR.

Raisins in parchment paper in a cardboard carton.	16.0	Genuine	Good, large and soft.	Sound..	Clean ..		44277a	
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2 GEORGE V., A. 1912  
BULLETIN No. 212—

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.		
DISTRICT OF KINGSTON							
1910.							
April 15	Raisins...	44277b					
" 15	" ..	44278a	S. T. Kirk, Kingston ..	3 pkgs	38		'Polly' brand ..
" 15	" ..	44278b					
" 15	" ..	44279a	A. Stover, Kingston ..	3 "	30	J. K. Armsby Co., Fresno, Cal.	" ..
" 15	" ..	44279b					
" 15	" ..	44280a	C. Lithon, Kingston ..	3 "	30		'Sun' brand ..
" 15	" ..	44280b					
" 15	" ..	44281a	C. H. Pickering, Kings- ton.	3 "	30	J. K. Armsby Co., Fresno, Cal.	" ..
" 15	" ..	44281b					
" 19	" ..	44282a	J. Harker, Belleville ..	3 "	38	H. P. Eckardt, Toronto.	
" 19	" ..	44282b					
" 19	" ..	44283a	Geo. Boyle, King- ston.	3 "	38		'Anchor' brand ..
" 19	" ..	44283b					" ..
" 19	Currants.	44284a	J. Panter, Kingston ..	3 "	30	Hills Bros., New York..	
" 19	" ..	44284b					
" 19	Raisins...	44285a	Beverly & McDonald, Picton.	3 "	36	Griffin & Skelley, Fresno, Cal.	
" 19	" ..	44285b					
" 20	" ..	44286a	H. Crozier, Cobourg ..	3 "	37	" ..	
" 20	" ..	44286b					
" 20	" ..	44287a	W. D. Stephens, Port Hope.	3 "	38	" ..	
" 20	" ..	44287b					
" 20	" ..	44288a	F. H. Brown, Port Hope.	3 "	36	" ..	
" 20	" ..	44288b					
" 21	" ..	44289a	A. Parison, Peterboro ..	3 "	30	" ..	
" 21	" ..	44289b					
" 21	" ..	44290a	P. S. White, Peterboro ..	3 "	35	" ..	
" 21	" ..	44290b					
" 21	" ..	44291a	W. H. Hamilton, Peter- boro.	3 "	25	Vendor ..	
" 21	" ..	44291b				" ..	

## SESSIONAL PAPER No. 14

## PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness	Nature of foreign mat- ter if any.		
JAS. HOGAN, INSPECTOR— <i>Concluded.</i>								
Raisins in parchment paper in a cardboard carton.	16.0	Genuine	Good, very large and soft.	Sound	Clean		44277b	
" " "	14.5	"	Good, rather small and soft.	"	"		44278a	
" " "	15.0	"	Fair, " "	"	Fairly clean		44278b	
" " "	15.5	"	Good, size and soft	Sound	Clean		44279a	
" " "	15.0	"	Good, fair size and soft.	"	"		44279b	
" " "	16.0	"	Fair, small and soft	Mostly sound	Fairly clean		44280a	
" " "	15.5	"	" "	"	"	Dust...	44280b	
" " "	16.5	"	Good, good size and soft.	Sound	Clean		44281a	
" " "	16.0	"	Fair, fair size and dry.	"	Fairly clean		44281b	
" " "	16.0	"	Good, large and soft.	"	Clean		44282a	
" " "	15.5	"	" "	"	"		44282b	
" " "	14.5	"	" "	"	"		44283a	
" " "	16.0	"	" "	"	Fairly clean		44283b	
Currants " "	14.5	"	" "	"	Clean		44284a	
" " "	14.5	"	" "	"	"		44284b	
Raisins in parchment paper in a cardboard carton.	15.0	"	Fair, good size and soft.	A few worms.	Not clean.	Worms.	44285a	Adulterated under sec. 3 (c).
" " "	15.5	"	Good, very large and soft.	Sound	Clean		44285b	
" " "	13.0	"	Good size, dry can- died.	"	"		44286a	
" " "	13.5	"	" "	"	"		44286b	
" " "	16.0	"	Good, large and soft.	"	"		44287a	
" " "	15.5	"	" "	"	"		44287b	
" " "	14.0	"	Good size and soft.	"	"		44288a	
" " "	15.5	"	" "	"	"		44288b	
" " "	11.0	"	Fair size and soft..	"	"		44289a	
" " "	11.0	"	" "	"	Fairly clean.		44289b	
" " "	14.5	"	Large and soft	"	Clean		44290a	
" " "	14.5	"	" "	"	"		44290b	
Raisins in a cardboard carton.	15.0	"	Fair, large and rat- her dry.	A few mouldy.	Fairly clean.	Mould.	44291a	Doubtful.
" " "	15.0	"	Poor, large but dried up.	"	"	"	44291b	"



2 GEORGE V., A. 1912  
BULLETIN No. 212—

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.		
DISTRICT OF TORONTO—								
1910.								
May	5	Raisins..	45022a	Ford & Brittin, Wel-	3 pkgs	39	Home Packing Co., Cali-	'Keystone' brand
				land.			fornia.	
"	5	" .....	45022b	.....				
"	6	Dates ....	45023a	Beestry & Co., Ridge-	3 "	30	The Hills Bros. Co.,	'Royal Excelsior
				way.			New York.	brand.
"	6	" .....	45023b	.....				
"	10	Figs. ....	45024a	R. H. Watson, St.	3 boxes	30	J. F. Festing, St. Cath-	Layer Figs A.E.
				Catherines.			erines.	
"	10	" .....	45024b	.....				
"	11	Raisins...	45025a	Wm. H. Newman,	3 "	35	Geo. E. Bristol, Hamilton	'Raven' brand.
				Niagara Falls.				
"	11	" .....	45025b	.....				
"	11	Dates ....	45026a	The Marland Wood-	3 "	21	Unknown.....	'Dromedary'
				nough Co., Niagara				brand.
				Falls Centre.				
"	11	" .....	45026b	.....				
"	14	Figs. ....	45027a	F. R. Martin, 479 King	3 pkgs	30	Balfour Smye & Co.,	Turkish Figs....
				St. E., Hamilton.			Hamilton.	
"	14	" .....	45027b	.....				
"	14	Prunes..	45028a	H. Taylor, 563 King St.	3 "	30	Geo. E. Bristol & Co.,	'Gold Medal'
				E., Hamilton.			Hamilton.	brand.
"	14	" .....	45028b	.....				
"	14	Raisins...	45029a	Peebles, Hobson & Co.,	3 "	38	Griffin & Skelley Co.,	'GriffinsSeedless
				Ltd., Hamilton.			California.	brand.
"	14	" .....	45029b	.....				
"	17	Figs. ....	45030a	E. Hanks, 197 Wilton	3 "	30	White & Co., Toronto...	'Coronet' brand.
				Ave., Toronto.				
"	17	" .....	45030b	.....				
"	21	Dates ....	45031a	Chas. Stewart, 664	3 "	30	Groceries Ltd., Toronto.	'Eagle' brand..
				Queen St., West, Tor-				
				onto.				
"	21	" .....	45031b	.....				
"	21	Figs. ....	45032a	W. H. Breen, 663	3 "	30	White & Co., Fruit	'BuffaloSelected
				Queen St., West			Merchants, Toronto.	brand.
				Toronto.				
"	21	" .....	45032b	.....				
"	21	" .....	45033a	John Bond, 559 Queen	3 "	30	Eby Blain, Ltd., Toronto	'Anchor' brand
				St., West Toronto.				
"	21	" .....	45033b	.....				

## SESSIONAL PAPER No. 14

## PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		
Raisins in parchment paper in a cardboard carton.	14.5	Genuine	Good, fair size and soft dry.	Sound..	Fairly clean.	.....	45022a	
" " ..	15.0	"	Fair, fair size and rather dry.	" ..	" ..	.....	45022b	
Dates in parchment paper in a cardboard carton.	13.5	"	Good large and soft.	" ..	Clean...	.....	45023a	
" " ..	14.5	"	Good, large and fairly soft.	" ..	Fairly clean.	.....	45023b	
Figs in a wooden box..	14.0	"	Good, good size, a little dry.	" ..	Clean ..	.....	45024a	
" " ..	14.0	"	Good, large and rather dry.	" ..	Fairly clean.	.....	45024b	
Raisins in parchment paper in a cardboard carton.	15.0	"	Good, large and soft.	" ..	Clean ..	.....	45025a	
" " ..	15.5	"	Fair, fair size and dry.	" ..	Fairly clean.	.....	45025b	
Dates in fancy paper ..	12.0	"	Good, large and soft.	" ..	Clean ..	.....	45026a	
" " ..	13.0	"	Good, large and a little dry.	" ..	" ..	.....	45026b	
Figs in fancy paper. ..	16.0	"	Good, large and soft.	" ..	Fairly clean.	.....	45027a	
" " ..	16.5	"	" " ..	" ..	Clean ..	.....	45027b	
Prunes in parchment paper in a cardboard carton.	14.5	"	Good, fair size and soft.	" ..	" ..	.....	45028a	
" " ..	14.5	"	Very good, large and soft.	" ..	" ..	.....	45028b	
Raisins in a cardboard carton.	16.0	"	Good, small and fairly soft.	" ..	" ..	.....	45029a	
" " ..	16.0	"	Good, small and soft.	" ..	" ..	.....	45029b	
Figs in a wooden box..	5.5	"	Good, good size and soft.	" ..	" ..	.....	45030a	
" " ..	6.0	"	Good, large, rather dry.	" ..	" ..	.....	45030b	
Dates in parchment paper in a cardboard carton.	13.0	"	Good, large and dry.	" ..	" ..	.....	45031a	
" " ..	12.5	"	Good, large and fairly soft.	" ..	" ..	.....	45031b	
Figs in a wooden box..	11.0	"	Good, large and soft.	" ..	" ..	.....	45032a	
" " ..	8.5	"	Good, good size and rather dry.	" ..	Fairly clean.	.....	45032b	
Raisins in parchment paper in a cardboard carton.	15.0	"	Good, fair size and soft.	" ..	Clean ..	.....	45033a	
" " ..	16.0	"	Good, large and soft.	" ..	" ..	.....	45033b	

2 GEORGE V., A. 1912  
BULLETIN No. 212—

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.		

## DISTRICT OF TORONTO—

1910.							
May	21	Figs . . . .	45034a	A. Kinsman, 253 Victoria St., Toronto.	3 pkgs	30	L. F. Griffin & Co., '33' brand. . . . . Fowler, Cal.
"	21	" . . . .	45034b	.....	.....	.....	.....
"	21	Dates . . . .	45035a	Wm. Masson, 184 Queen St., West Toronto.	3 "	15	Clems Bros., Toronto. . . . 'Camel' brand. .
"	21	" . . . .	45035b	.....	.....	.....	.....
"	21	" . . . .	45036a	M. Cowan, 274 Parliament St., Toronto.	3 "	15	Medland Bros, Toronto . 'National' brand.
"	21	" . . . .	45036b	.....	.....	.....	.....

## DISTRICT OF LONDON—

May	5	Raisins. . .	42304a	W. R. Smith, Seaforth	3 lbs.	30	A. M. Smith & Co., London.	'Polly' brand . .
"	5	" . . . .	42304b	.....	.....	.....	.....	" . .
"	5	" . . . .	42305a	Thos. Daly, Seaforth	3 "	30	Stratford Wholesale Grocery Co.	'Blue Standard brand.
"	5	" . . . .	42305b	.....	.....	.....	.....	" . .
"	5	" . . . .	42307a	O. C. Whitely, Seaforth	3 pkgs	30	A. M. Smith & Co., London.	'Red' brand. . . .
"	5	" . . . .	42307b	.....	.....	.....	.....	" . .
"	5	" . . . .	42309a	Harrison Wiltse, Clinton.	3 "	30	E. Adams & Co., London	'Ellis' brand. . .
"	5	" . . . .	42309b	.....	.....	.....	.....	" . .
"	5	Dates . . . .	42310a	B. A. McEwan, Clinton	3 "	30	Elliott Marr, London. . .	'Royal Excelsior' brand.
"	5	" . . . .	42310b	.....	.....	.....	.....	" . .
"	6	" . . . .	42313a	Jones & May, Exeter.	3 "	30	A. M. Smith & Co., London.	'Dromedary' brand.
"	6	" . . . .	42313b	.....	.....	.....	.....	" . .
"	3	Raisins. . .	42583a	W. R. Butcher, Mary's.	3 lbs.	35	Elliott Marr, London. . .	'Purple & Gold' brand.
"	3	" . . . .	42583b	.....	.....	.....	.....	" . .
"	3	" . . . .	42588a	A. Beattie & Co., Mary's.	3 "	30	" " . . .	'Ellis' brand. . .
"	3	" . . . .	42588b	.....	.....	.....	.....	" . .
"	4	" . . . .	42589a	Mrs. Jane Davis, Stratford.	3 "	30	Grocers, Ltd., Toronto.	'Ensign' brand.

## SESSIONAL PAPER No. 14

## PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		

H. J. DAGER, INSPECTOR—*Concluded.*

Raisins in parchment paper in a cardboard carton.	16.0	Genuine	Good, good size and fairly soft.	Sound..	Clean ..	.....	45034a	
" " "	14.5	"	Good, good size and soft.	" ..	" ..	.....	45034b	
Dates in parchment paper in a cardboard carton.	13.0	"	Fair, large and rat- her dry.	Mostly sound.	Not very clean.	.....	45035a	
" " "	13.0	"	Good, good size and a little dry.	" ..	" ..	.....	45035b	
Dates in parchment paper.	7.0	"	Good, large and soft.	Sound..	Clean ..	.....	45036a	
" " "	8.0	"	Fair, rather small and dry.	" ..	Fairly clean.	.....	45036b	

JNO. TALBOT, ACTING INSPECTOR.

Raisins in parchment paper in a cardboard carton.	15.5	Genuine	Good, good size and rather dry.	Sound..	Clean ..	.....	42304a	
" " "	15.5	"	Good, good size and soft.	" ..	" ..	.....	42304b	
" " "	15.0	"	Good size & quality but dry.	" ..	" ..	.....	42305a	
" " "	15.5	"	Fair, Small and rather dry.	Mostly sound.	Fairly clean.	.....	42305b	
" " "	15.5	"	Good, large and soft.	Sound..	Clean ..	.....	42307a	
" " "	15.5	"	"	" ..	" ..	.....	42307b	
" " "	15.0	"	"	" ..	" ..	.....	42309a	
Currants in parchment paper in a cardboard carton.	14.5	"	"	" ..	" ..	.....	42309b	
Dates in parchment paper in a cardboard carton.	16.5	"	Good, good size and soft.	" ..	Fairly clean.	.....	42310a	
" " "	15.0	"	"	" ..	Clean ..	.....	42310b	
" " "	14.0	"	Good, large and soft.	" ..	" ..	.....	42313a	
" " "	15.0	"	"	" ..	" ..	.....	42313b	
Raisins in parchment paper in a cardboard carton.	15.5	"	"	" ..	" ..	.....	42583a	
" " "	14.5	"	"	" ..	" ..	.....	42583b	
" " "	15.5	"	"	" ..	" ..	.....	42588a	
" " "	15.0	"	Fair, large and very soft.	Found 1 worm.	Fairly clean.	A worm	42588b	Doubtful.
" " "	16.0	"	Good, large and rather dry.	Sound..	Clean ..	.....	42589a	

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.		

## DISTRICT OF LONDON—

1910							
May	4	Raisins...	42589b				'Ensign' brand.
"	4	"	42590a	H. T. Barker, Stratford	3 lbs..	38	T. Michael Harding, Stratford.
"	4	"	42590b				"
"	4	"	42594a	E. O. Flaherty, Stratford.	3 pkgs	25	Balfour Syme Co., Hamilton.
"	4	"	42594b				"
"	4	"	42595a	Knechtel Grocery Co., Stratford.	3 "	38	Elliott Marr & Co., London.
"	4	"	42595b				"
"	4	"	42597a	A. G. Loyd, Stratford.	3 "	37	A. M. Smith & Co., London.
"	4	"	42597b				"

## DISTRICT OF WINDSOR—

April 18	Raisins...	42546a	Jackson & Son, Guelph	3 lbs..	30	T. F. Griffin & Co., Fowler, Cal.	
"	18	"	42546b				"
"	18	"	42549a	A. J. Groom, Guelph.	3 pkgs	38	Eby Blain Co., Toronto.
"	18	"	42549b				"
"	18	Dates	42552a	S. E. Wiggins, Guelph	3 "	25	Hills Bros. Co., New York.
"	18	"	42552b				"
"	19	"	42560a	L. Bruegeuman, Waterloo, Ont.	3 lbs..	30	Davidson & Hay, Toronto.
"	19	"	42560b				"
"	19	Raisins...	42561a	G. W. Dodds, Waterloo, Ont.	3 "	30	Rundall & Ross, Berlin.
"	19	"	42561b				"
"	20	"	42563a	John Ritchie, Galt	3 "	30	California F. C. Assoc.
"	20	"	42563b				"
"	20	Dates	42564a	Hollands & Macauley, Galt.	3 "	25	Hills Bros. Co., New York.
"	20	"	42564b				"
"	21	Raisins...	42569a	John Scott & Co., Woodstock.	3 "	30	Jas. Lumsden & Co., Toronto.
"	21	"	42569b				"



## SESSIONAL PAPER No. 14

## PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		
JNO. TALBOT, ACTING INSPECTOR— <i>Concluded.</i>								
Raisins in parchment paper in a cardboard carton.	14.0	Genuine	Good, very large and a little dry.	Sound..	Clean ..		42589b	
" " "	15.0	"	Good, large and soft.	" ..	" ..		42590a	
" " "	15.5	"	"	" ..	" ..		42590b	
" " "	11.5	"	Good, fair size and soft.	" ..	" ..		42594a	
" " "	11.5	"	Fair, fair size and soft.	" ..	Fairly clean.		594b	
" " "	14.5	"	Good, fair size and soft.	" ..	Clean ..		2555a	
" " "	16.0	"	Good, rather small and soft.	" ..	" ..		42595b	
" " "	15.5	"	Good, large and soft.	" ..	" ..		42597a	
" " "	15.5	"	"	" ..	" ..		42597b	

## JNO. TALBOT, INSPECTOR.

Raisins in parchment paper in a cardboard carton.	14.5	Genuine	Good, large and a little dry.	Sound..	Clean ..		42546a	
" " "	16.0	"	Good, good size and soft.	" ..	" ..		42546b	
" " "	15.5	"	Good, large and soft.	" ..	" ..		42549a	
" " "	15.0	"	Good, large, dry and candied.	" ..	" ..		42549b	
Dates.....							42552a	
Dates in parchment paper in a cardboard carton.	14.0	Genuine	Good, large and soft.	" ..	" ..		42552b	
Dates in a fancy paper.	11.0	"	Poor, good size, very dry.	Some decayed	Not clean.	Dust...	42560a	Doubtful.
" " "	14.0	"	Good, large and soft.	Sound..	Clean ..		42560b	
Raisins in parchment paper in a cardboard carton.	15.5	"	"	" ..	" ..		42561a	
" " "	15.0	"	Good, good size and soft.	" ..	" ..		42561b	
" " "	16.5	"	Good, large and a little dry.	" ..	" ..		42563a	
" " "	15.5	"	"	" ..	" ..		42563b	
Dates in parchment paper in a cardboard carton.	14.5	"	Good, large and soft.	" ..	" ..		42564a	
" " "	13.5	"	"	" ..	" ..		42564b	
Raisins in parchment paper in a cardboard carton.	15.0	"	Good, large, rather dry; candied.	" ..	" ..		42569a	
" " "	15.5	"	Fair, large, rather dry; candied.	Found 1 worm.	Fairly clean.	A worm	42569b	Doubtful.

2 GEORGE V., A. 1912  
BULLETIN No. 212—

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.		

## DISTRICT OF WINDSOR—

1910.							
April 21	Raisins...	42570a	A. A. Rayson, Woodstock.	3 lbs.	25	H. P. Eckardt & Co., Toronto.	'Monarch' brand
" 21	" ..	42570b	.....	.....	.....	.....	.....
" 21	" ..	42571a	Wm. Parker, Woodstock.	3 "	25	Grocers Ltd., Toronto...	'Ensign' brand.
" 21	" ..	42571b	.....	.....	.....	.....	.....
" 21	" ..	42572a	Geo. Parker, Woodstock.	3 "	30	Jas. Lumbers Co., Toronto.	'Griffin' brand.
" 21	" ..	42572b	.....	.....	.....	.....	.....
" 21	" ..	42574a	A. M. Smith & Son, Woodstock.	3 "	30	Elus Bros., Fresno, Cal..	.....
" 21	" ..	42574b	.....	.....	.....	.....	.....

## DISTRICT OF MANITOBA—

April 19	Currants.	43431a	T. Brown & Co., Pembina St., Winnipeg.	3 pkgs	30	.....	Choicest Currants.
" 19	" ..	43431b	.....	.....	.....	.....	" ..
" 19	Raisins...	43432a	" ..	3 "	30	California Farmers Union Inc., Fresno, Cal.	'Queen Bee' brand.
" 19	" ..	43432b	.....	.....	.....	.....	.....
" 19	" ..	43433a	Geo. T. Grant & Co., Pembina St., Winnipeg.	3 "	40	California Dried Fruit Agency, Fresno, Cal.	'Maltese Cross' brand.
" 19	" ..	43433b	.....	.....	.....	.....	" ..
" 19	Currants..	43434a	" ..	3 "	30	.....	'Taurus' brand.
" 19	" ..	43434b	.....	.....	.....	.....	" ..
" 19	Dates ...	43435a	J. Smith, Pembina St., Winnipeg.	3 "	25	Hills Bros. Co., New York.	'Anchor' brand.
" 19	" ..	43435b	.....	.....	.....	.....	" ..
" 20	Raisins...	43436a	C. Roach, Sargent St., Winnipeg.	3 "	25	Guggenheim & Co., California.	'Daphne' brand.
" 20	" ..	43436b	.....	.....	.....	.....	" ..
" 20	" ..	43437a	" ..	3 "	40	Codville Co., Ltd., Winnipeg' brand.	'Gold Standard' brand.
" 20	" ..	43437b	.....	.....	.....	.....	" ..

## SESSIONAL PAPER No. 14

## PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		

JNO. TALBOT, INSPECTOR—*Concluded.*

Raisins in parchment paper in a cardboard carton.	16·0	Genuine	Good, large and soft.	Sound..	Clean ..	.....	42570a	
" " ..	15·5	"	" " "	"	"	.....	42570b	
" " ..	14·5	"	Good, good size and fairly soft.	"	"	.....	42571a	
" " ..	13·5	"	Good, large and soft.	"	"	.....	42571b	
" " ..	15·5	"	Good, large and fairly soft.	"	"	.....	42572a	
" " ..	16·0	"	Good, large and soft.	"	"	.....	42572b	
" " ..	15·5	"	Good, fair size and soft.	"	"	.....	42574a	
" " ..	14·0	"	Good, good size and soft.	"	"	.....	42574b	

A. C. LARIVIERE, INSPECTOR.

Currants in parchment paper in a cardboard carton.	15·0	Genuine	Good, fair size and soft.	Sound..	Fairly clean.	.....	43431a	
Currants in a card- board carton.	15·0	"	Good, large and soft.	" ..	" ..	.....	43431b	
Raisins in parchment paper in a cardboard carton.	15·0	"	" " ..	" ..	Clean...	.....	43432a	
" " ..	15·5	"	Fair, fair size and soft.	" ..	Fairly clean.	.....	43432b	
" " ..	15·0	"	Good, fair size and soft.	" ..	Clean...	.....	43433a	
" " ..	15·0	"	Good, large and soft.	" ..	" ..	.....	43433b	
Currants in parchment paper in a cardboard carton.	14·5	"	Not very good, fair size.	Some decayed	Fairly clean.	.....	43434a	
" " ..	13·5	"	Fair, rather small and soft.	Sound..	" ..	.....	42434b	
Dates in parchment paper in a cardboard carton.	16·0	"	Good, large and soft.	Sound..	Clean...	.....	43435a	
" " ..	15·0	"	" " ..	" ..	Fairly clean.	Dust...	43435b	
Raisins in parchment paper in a cardboard carton.	15·5	"	Good, fair size and soft.	" ..	Clean...	.....	43436a	
" " ..	15·0	"	Good, rather small and soft.	" ..	" ..	.....	43436b	
Raisins in a cardboard carton.	14·0	"	Good, small and soft.	" ..	" ..	.....	43437a	
" " ..	15·5	"	Good, small and dry.	" ..	" ..	.....	43437b	

2 GEORGE V., A. 1912

BULLETIN No. 212—

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.		
DISTRICT OF MANITOBA—							
1910.							
April 20	Currants.	43438a	Conley & Yost, Sargent St., Winnipeg.	3 pkgs	30	Foley, Lock, Larson ... Winnipeg.	'Lock' brand...
" 20	" ..	43438b	.....	.....	.....	.....	" ..
" 20	Raisins...	43439a	" " ..	3 "	40	Campbell Bros. & Wilson, Winnipeg.	'Royal Shield' brand.
" 20	" ..	43439b	.....	.....	.....	.....	" ..
" 20	" ..	43440a	Clemens, Armason & Palmason, Sargent St., Winnipeg.	3 "	30	J. K. Armsby Co., Fresno, Cal.	'Gordon' brand.
" 20	" ..	43440b	.....	.....	.....	.....	" ..
" 20	" ..	43441a	" " ..	3 "	40	Rosenberg Bros. Co., San Francisco, Cal.	'Monarch' brand
" 20	" ..	43441b	.....	.....	.....	.....	" ..
" 21	" ..	43442a	Moffet & Douglas, McKenzie St., Winnipeg	3 "	30	L. F. Griffin & Co., Fowler, Cal.	'Red and Gold' brand.
" 21	" ..	43442b	.....	.....	.....	.....	" ..
" 21	Dates....	43443a	Merchants Ltd., Main St., Winnipeg.	3 "	30	Hills Bros. & Co., New York.	'Royal Excelsior' brand.
" 21	" ..	43443b	.....	.....	.....	.....	" ..
" 21	Raisins...	43444a	" " ..	3 "	30	L. F. Griffin & Co., Fowler, Cal.	'Purple and Gold' brand.
" 21	" ..	43444b	.....	.....	.....	.....	" ..
" 21	Currants.	43445a	G. Otto, Main St., Winnipeg.	3 "	30	Hills Bros. & Co., New York.	'Royal Excelsior' brand.
" 21	" ..	43445b	.....	.....	.....	.....	" ..

## DISTRICT OF CALGARY—

May	5	Raisins...	43711a	R. Dunn, Medicine Hat.	3 pkgs	40	California Dried Fruit Agency, Fresno, Cal.	.....
"	5	" ..	43711b	.....	.....	.....	.....	.....
"	5	" ..	43712a	H. W. Ireland Co., Medicine Hat.	3 "	40	The W. H. Malkin Co. Ltd., Vancouver, B.C.	'Victoria Cross' brand.
"	5	" ..	43712b	.....	.....	.....	.....	" ..
"	5	Currants..	43713a	L. B. Cochran, Medicine Hat.	3 "	75	The Codville Co., Ltd., Winnipeg.	.....
"	5	" ..	43713b	.....	.....	.....	.....	.....
"	5	Raisins...	43714a	The D. Milné Co. Ltd., Medicine Hat.	3 "	40	Castle Bros., Fresno, Cal.	.....

## SESSIONAL PAPER No. 14

## PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		

A. C. LARIVIERE, INSPECTOR—*Concluded.*

Currants in a card- board carton.	12.5	Genuine	Good, fair size and pretty soft.	Sound..	Clean ..	.....	43438a	Doubtful.
" " ..	13.0	"	Good, good size and soft.	" ..	Fairly clean.	.....	43438b	
Raisins in a cardboard carton.	16.0	"	Good, small and soft.	" ..	Fairly clean.	.....	43439a	
" " ..	15.5	"	Poor, small, dry and old.	Some decayed.	Not clean.	.....	43439b	
Raisins in parchment paper in a cardboard carton.	12.5	"	Good, fair size and soft.	Sound..	Clean ..	.....	43440a	
" " ..	11.5	"	Good, good size and rather dry.	" ..	" ..	.....	43440b	
" " ..	14.5	"	Good, large and a little dry.	" ..	" ..	.....	43441a	
" " ..	15.0	"	Fair, good size but dry.	" ..	Fairly clean.	.....	43441b	
" " ..	14.5	"	Good, large and soft.	" ..	Fairly clean.	.....	43442a	
" " ..	14.0	"	Fair, rather small and soft.	" ..	" ..	.....	43442b	
Dates in parchment paper in a cardboard carton.	13.5	"	" " ..	" ..	" ..	.....	43443a	
" " ..	16.0	"	" " ..	" ..	" ..	.....	43443b	
Raisins in parchment paper in a cardboard carton.	15.5	"	Fair, fair size and rather dry.	" ..	" ..	.....	43444a	
" " ..	14.5	"	Fair, fair size and soft.	" ..	Fairly clean.	.....	43444b	
Currants in parchment paper in a cardboard carton.	14.5	"	Good, large and soft.	" ..	Clean ..	.....	43445a	
" " ..	14.0	"	" " ..	" ..	" ..	.....	43445b	

R. W. FLETCHER, INSPECTOR.

Raisins in parchment paper in a cardboard carton.	15.5	Genuine	Good, large and soft.	Sound..	Clean ..	.....	43711a	
" " ..	16.0	"	" " ..	" ..	" ..	.....	43711b	
" " ..	15.0	"	" " ..	" ..	" ..	.....	43712a	
" " ..	16.0	"	" " ..	" ..	" ..	.....	43712b	
Currants in a cardboard carton.	32.0	"	Good, large and fairly soft.	" ..	" ..	.....	43713a	
" " ..	31.5	"	Good, large and soft.	" ..	" ..	.....	43713b	
Raisins in parchment paper in a cardboard carton.	15.5	"	" " ..	" ..	" ..	.....	43714a	



2 GEORGE V., A. 1912

BULLETIN No. 212—

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.		

## DISTRICT OF CALGARY—

1910.							
May	5	Raisins...	43714b				
"	5	Currants...	43715a	The D. Milne Co. Ltd., Medicine Hat.	3 pkgs	40	W. H. Malkin Co, Van- couver, B.C.
"	5	"	43715b				
"	12	Raisins...	43716a	McDonald & Co., Leth- bridge.	3 "	40	J. K. Armsby Co., Fres- no, Cal.
"	12	"	43716b				
"	12	Currants...	43717a	The Bentley Co., Leth- bridge.	3 "	40	Jas. Turner, Hamilton, Ont.
"	12	"	43717b				
"	12	"	43718a	Hudson's Bay Co., Lethbridge.	3 "	40	Unknown...
"	12	"	43718b				
"	12	"	43719a	H. A. McKillop & Co., Lethbridge.	3 "	75	The Codville Co. Ltd., Winnipeg and Brandon
"	12	"	43719b				
"	18	"	43720a	Hallier & Aldridge, Ed- monton.	3 "	40	Graeco Am. Currant & Supply Co., Jersey City, N.Y.
"	18	"	43720b				
"	18	Raisins...	43721a	C. Campbell & Co., Ed- monton.	3 "	40	Guggenhime & Co., Cal- ifornia.
"	18	"	43721b				
"	18	Currants...	43722a	J. H. Morris & Co., Edmonton.	3 "	40	Foley Lock & Larsen, Winnipeg.
"	18	"	43722b				
"	18	Raisins...	43723a	G. Berg, Edmonton...	3 "	25	Rosenberg Bros. & Co., San Francisco, Cal.
"	18	"	43723b				
"	21	Currants...	43724a	C. J. Winn, Calgary...	3 "	40	J. Caramardani & Co., Patras Greece.
"	21	"	43724b				
"	21	Raisins...	43725a	J. A. Nolan, Calgary...	3 "	40	Guggenhime & Co., Cal- ifornia.
"	21	"	43725b				

## SESSIONAL PAPER No. 14

## PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		

R. W. FLETCHER, INSPECTOR—*Concluded.*

Raisins in parchment paper in a cardboard carton.	15.5	Genuine	Good, large and soft.	Sound..	Mostly clean.	.....	43714b	
Currants in a cardboard carton.	13.5	"	Fair, good size and fairly soft.	Mostly sound.	Fairly clean.	....	43715a	
" " ..	13.0	"	Poor, fair size, rat- her dry.	Some wither'd	Not clean.	Sticks and dust	43715b	Doubtful.
Raisins in parchment paper in a cardboard carton.	12.0	"	Fair fair size and soft.	Sound..	Clean ..	.....	43716a	
" " ..	12.0	"	Good, fair size and rather dry.	" ..	" ..	.....	43716b	
Currants in a cardboard carton.	15.5	"	Good, good size and soft.	" ..	Fairly clean.	....	43717a	
" " ..	15.5	"	Good, large and soft.	" ..	" ..	.....	43717b	
" " ..	15.5	"	Fair, good size and rather dry.	Mostly sound.	Not clean.	Gritty matter, sticks, &c.	43718a	Doubtful.
" " ..	15.5	"	Good, fair size and little dry.	" ..	" ..	Sticks and dust	43718b	"
" " ..	31.0	"	Good, large and fairly soft.	Sound..	Clean ..	.....	43719a	
" " ..	31.5	"	Good, large and soft.	" ..	Fairly clean.	.....	43719b	
Currants in parchment paper in a cardboard carton.	14.0	"	Good, good size and soft.	" ..	" ..	.....	43720a	
Currants in a cardboard carton.	14.0	"	" " ..	Mostly sound.	" ..	.....	43720b	
Raisins in a cardboard carton.	15.5	"	Good, rather dry, small, candied.	Sound..	Clean ..	.....	43721a	
" " ..	15.0	"	Good, good size, dry and candied.	" ..	" ..	.....	43721b	
Currants in a cardboard carton.	16.0	"	Good, large and soft.	" ..	" ..	.....	43722a	
" " ..	15.5	"	" " ..	" ..	" ..	.....	43722b	
Raisins in parchment paper in a cardboard carton.	11.0	"	" " ..	" ..	" ..	.....	43723a	
" " ..	11.0	"	Fair, good size and fairly soft.	A few wither'd	Fairly clean.	....	43723b	
Currants in parchment paper in a cardboard carton.	15.0	"	Fair, good size and rather dry.	Sound..	Clean...	.....	43724a	
" " ..	16.0	"	Fair, large and soft	" ..	" ..	.....	42724b	
Raisins in parchment paper in a cardboard carton.	15.0	"	Fair, small and soft.	" ..	" ..	.....	43725a	
" " ..	14.5	"	Good, fair size and soft.	" ..	" ..	.....	43725b	

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.		
DISTRICT OF VANCOUVER—							
1910.							
May	5 Raisins...	44840a	The A. & C. Grocery Co., Vancouver, B.C.	3 pkgs	40	Kelly Douglas & Co., Vancouver.	'Nabob' brand.
"	5 " ...	44840b					"
"	5 Currants...	44841a	" " " 3 " "	40	Wilson Bros., Victoria, B.C.	'Wilson's Finest brand.	
"	5 " ...	44841b					"
"	5 Raisins...	44843a	The London Grocery Co. Ltd., Vancouver, B.C.	3 " "	30	Rosenberg Bros. & Co., San Francisco, Cal.	'Iris' brand.
"	5 " ...	44843b					"
"	5 Currants...	44846a	T. F. McDowell, Vancouver.	3 " "	30	Leeson Dickie & Co., Vancouver.	'High Grade' brand.
"	5 " ...	44846b					"
"	5 Raisins...	44847a	" " " 3 " "	40	Garcia Maggini Co., San Francisco, Cal.	'Bon Ton' brand.	
"	5 " ...	44847b					"
"	5 Currants...	44850a	J. McTaggart, Vancouver, B.C.	3 " "	40	The W. H. Malkin Co., Ltd., Vancouver.	'Preferred Stock' brand.
"	5 " ...	44850b					"
"	5 Raisins...	44851a	" " " 3 " "	40	" " "	'Victoria Cross' brand.	
"	5 " ...	44851b					"
"	6 Currants...	44854a	J. S. Foran, Vancouver, B.C.	3 " "	30	Kelly Douglas & Co., Vancouver.	'Columbia' brand.
"	6 " ...	44854b					"
"	6 Raisins...	44855a	J. S. Foran, Vancouver, B.C.	3 " "	30	Kelly, Douglas & Co., Vancouver, B.C.	'Ellis' brand...
"	6 " ...	44855b					"
"	6 " ...	44857a	F. Filion, Vancouver, B.C.	3 " "	45	Rosenberg Bros. & Co., San Francisco, Cal.	'Guardian' brand
"	6 " ...	44857b					"
"	6 Currants...	44859a	J. F. May, Vancouver, B.C.	2 " "	25	Hudson's Bay Co., Vancouver.	'Imperial' brand
"	6 " ...	44859b					"
"	8 " ...	44876a	West End Grocery, New Westminster, B.C.	3 " "	30	The W. H. Malkin Co., Ltd., Vancouver.	'Victoria Cross' brand.
"	8 " ...	44876b					"
"	8 Raisins...	44877a	" " " 3 " "	40	" " "	"	
"	8 " ...	44877b					"

## SESSIONAL PAPER No. 14

## PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size offruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		
D. O'SULLIVAN, ACTING INSPECTOR.								
Raisins in parchment paper in a cardboard carton.	16.5	Genuine	Good, large and soft.	Sound..	Clean ..	.....	44840a	
" " ..	16.0	"	" " ..	" ..	" ..	.....	44840b	
Currants in a cardboard carton.	15.5	"	" " ..	" ..	" ..	.....	44841a	
" " ..	14.0	"	" " ..	" ..	" ..	.....	44841b	
Raisins in parchment paper in a cardboard carton.	16.0	"	" " ..	" ..	" ..	.....	44843a	
" " ..	16.0	"	" " ..	" ..	" ..	.....	44843b	
Currants in a cardboard	14.5	"	Good, fair size and soft.	" ..	" ..	.....	44846a	
" " ..	14.0	"	Good; large and soft.	Mostly sound.	Fairly clean.	.....	44846b	
Raisins in parchment paper in a cardboard carton.	16.0	"	" " ..	" ..	" ..	.....	44847a	
" " ..	15.5	"	Fair, small and rather dry.	" ..	" ..	.....	44847b	
Currants in a cardboard carton.	13.5	"	Fair, large and soft	" ..	" ..	.....	44850a	
" " ..	13.0	"	Fair, good size, fairly soft.	Mostly sound.	Clean ..	.....	44850b	
Raisins in parchment paper in a cardboard carton.	17.0	"	" " ..	Sound..	" ..	.....	44851a	
" " ..	16.5	"	" " ..	" ..	" ..	.....	44851b	
Currants in a cardboard carton.	14.0	"	Fair, good size and soft.	" ..	Fairly clean.	.....	44854a	
" " ..	14.0	"	" " ..	" ..	" ..	.....	44854b	
Raisins in parchment paper in a cardboard carton.	16.0	"	Good, good size and a little dry.	" ..	Clean ..	.....	44855a	
" " ..	15.5	"	Fair, fair size, dry.	" ..	" ..	.....	44855b	
" " ..	15.0	"	Fair, good size and soft.	" ..	Fairly clean.	.....	44857a	
" " ..	16.0	"	Fair, few rather small, soft.	Some with'd	Clean ..	.....	44857b	
Currants in a cardboard carton.	15.0	"	Good, large and soft.	Sound..	" ..	.....	44859a	
" " ..	15.5	"	" " ..	Mostly sound.	" ..	.....	44859b	
" " ..	14.5	"	" " ..	" ..	Fairly clean.	Some gritty matter.	44876a	
" " ..	14.0	"	Fair, good size and soft.	" ..	" ..	Gritty matter.	44876b	
Raisins in parchment paper in a cardboard carton.	17.5	"	" " ..	Sound..	Clean ..	.....	44877a	
" " ..	16.5	"	Good, large and fairly soft.	" ..	" ..	.....	44877b	

2 GEORGE V., A. 1912

BULLETIN No. 212—

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.		

## DISTRICT OF VANCOUVER—

1910.							
May	8	Dates....	44881a	Pure Food Supply Co.,	3 pkgs	30	Leeson, Dickie & Goss, Golden Dates...
				New Westminster.			New Westminster.
"	8	" .....	44881b	.....	.....	.....	" ..

## DISTRICT OF VICTORIA--

April	26	Raisins...	37901a	G. S. Pearson & Co.,	3 pkgs	30	W. H. Malkin & Co., 'Red Cross' brand.
				Nanaimo, B.C.			Vancouver.
"	26	" .....	37901b	.....	.....	.....	" ..
"	25	Dates....	37902a	A. R. Johnson & Co.,	3 "	40	Niles Bros. Co., New .....
				Nanaimo, B.C.			York.
"	26	" .....	37902b	.....	.....	.....	.....
"	26	Raisins...	37903a	Jas. Hirst, Nanaimo,	3 "	30	Unknown..... 'Columbia' brand
				B.C.			
"	26	" .....	37903b	.....	.....	.....	" ..
"	26	Currants..	37904a	J. A. Macdonald, Nana-	3 "	30	S. Leiser & Co., Victoria, 'Lord Roberts' brand.
				imo, B.C.			B.C.
"	26	" .....	37904b	.....	.....	.....	" ..
"	26	Raisins...	37905a	F. X. Jones, Ladysmith,	3 "	45	Rosenberg Bros. & Co., .....
				B.C.			San Francisco, Cal.
"	26	" .....	37905b	.....	.....	.....	.....
"	28	" .....	37906a	H. Kirkham, Victoria,	3 "	45	California Dried Fruit .....
				B.C.			Agency, Fresno, Cal.
"	28	" .....	37906b	.....	.....	.....	.....
"	28	" .....	37907a	Baileys Cash Grocery,	3 "	30	Ellis Bros., California...
				Victoria, B.C.			
"	28	" .....	37907b	.....	.....	.....	.....
"	28	Figs .....	37908a	E. E. Plummer, Vic-	3 "	30	W. H. Malkin & Co., .....
				toria, B.C.			Vancouver.
"	28	" .....	37908b	.....	.....	.....	.....
"	28	Raisins...	37909a	E. C. Kaufman, Vic-	3 "	30	S. Leiser & Co., Victoria .....
				toria, B.C.			
"	28	" .....	37909b	.....	.....	.....	.....
"	28	Dates....	37910a	Copas & Young, Vic-	3 "	25	Niles Bros. & Co., New .....
				toria, B.C.			York.
"	28	" .....	37910b	.....	.....	.....	.....



SESSIONAL PAPER No. 14

## PACKAGED FRUIT.

Kind of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		
D. O'SULLIVAN, ACTING INSPECTOR— <i>Concluded.</i>								
Dates in a fancy paper	12·5	Genuine	Good, good size and soft.	Sound..	Fairly clean.	.....	44881a	
Dates in parchment paper.	12·5	"	"	"	Clean..	.....	44881b	
J. F. POWER, ACTING INSPECTOR.								
Raisins in parchment paper in a cardboard carton.	15·0	Genuine	Good, large and soft.	Sound..	Clean..	.....	37901a	
" " "	15·5	"	Good, large, rather dry; candied.	"	"	.....	37901b	
Dates in parchment paper in a cardboard carton.	14·0	"	Good, large, soft..	"	"	.....	37902a	
" " "	14·5	"	"	"	"	.....	37902b	
Raisins in a cardboard carton.	15·5	"	Good, good size and soft.	"	"	.....	37903a	
Raisins in parchment paper in a cardboard carton.	15·5	"	"	"	"	.....	37903b	
Currants in parchment paper in a cardboard carton.	15·0	"	"	"	Fairly clean.	.....	37904a	
Currants in a cardboard carton.	16·0	"	"	"	Clean..	.....	37904b	
Raisins in parchment paper in a cardboard carton.	15·0	"	"	"	"	.....	37905a	
" " "	16·0	"	"	"	"	.....	37905b	
" " "	17·0	"	Good, large and soft.	"	"	.....	37906a	
" " "	16·0	"	"	"	"	.....	37906b	
" " "	14·5	"	Fair, small and soft	"	"	.....	37907a	
" " "	14·5	"	Good, fair size and soft.	"	Fairly clean.	.....	37907b	
Figs in parchment pa- per.	12·5	"	Good, large and soft.	"	Clean..	.....	37908a	
" " "	11·5	"	Good, large, rather dry.	"	Fairly clean.	.....	37908b	
Raisins in parchment paper in a cardboard carton.	15·5	"	Good, large, soft..	"	Clean..	.....	37909a	
" " "	16·0	"	Good, fair size and soft.	"	"	.....	37909b	
Dates in parchment paper in a cardboard carton.	15·0	"	"	"	"	.....	37910a	
" " "	13·5	"	Good, good size and soft.	"	"	.....	37910b	

2 GEORGE V., A 1912

BULLETIN No. 212—

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.		

## DISTRICT OF VICTORIA—

1910.							
May	2	Raisins...	37911a	West End Grocery, Victoria, B.C.	3 pkgs	30	Unknown.....
"	2	" ..	37911b				
"	2	" ..	37912a	Dixie H. Ross, Victoria, B.C.	3 "	30	Sastle Bros., Fresno, Cal. ....
"	2	" ..	37912b				
"	2	" ..	37913a	Sanders Grocery, Victoria, B.C.	3 "	30	Ellis Bros., California....
"	2	" ..	37913b				
"	2	" ..	37914a	A. Lilly, Victoria, B.C.	3 "	75	Patterson, Victoria.....
"	2	" ..	37914b				
"	2	Currants..	37915a	Geo. Paragais, Victoria,	3 "	45	Unknown..... 'Lord Roberts' brand.
"	2	" ..	37915b				" ..

## SESSIONAL PAPER No. 14

## PACKAGED FRUIT.

Kinds of Fruit and Nature of Package.	RESULTS OF ANALYSIS.						No. of Sample.	Remarks and opinion of the Chief Analyst.
	Net weight of contents in ounces.	Specific identity.	Quality and size of fruit.	Soundness or decay.	Cleanliness.	Nature of foreign mat- ter if any.		
Raisins in parchment paper in a cardboard carton.	15.5	Genuine	Good, large and soft.	Sound..	Clean...		37911a	
" " "	15.5	"	" " "	"	"		37911b	
" " "	16.0	"	" " "	"	"		37912a	
" " "	16.0	"	" " "	"	"		37912b	
" " "	14.5	"	Fair, small and soft	"	"		37913a	
" " "	14.5	"	Good, fair size, dry	"	"		37913b	
Raisins in fancy paper.		"	Good, large and soft.	"	"		37914a	
" " "	14.5	"	Poor, large but dry	Some decayed	Not clean.	Insect excreta.	37914b	Adulterated under Sec. 3 (e).
Currants in parchment paper in a cardboard carton.	15.0	"	Fair. Some old and dry.	Sound..	Too many stems, not very clean.		37915a	Doubtful.
Currants in a cardboard carton.	14.5	"	Fair, good size, a little dry.	Some wither'd	Fairly clean.	Gritty matter.	37915b	"

## APPENDIX H.

## BULLETIN No. 213—FERTILIZERS 1910.

OTTAWA, August 12, 1910.

W. J. GERALD, Esq.,

Deputy Minister of Inland Revenue.

SIR,—I beg to hand you a Report upon the Inspection of Fertilizers for the current year. This is the first inspection made under the *Fertilizers Act, 1909*. For the purpose of giving publicity to this Act, I have introduced a copy of the Act,—as an Appendix to this report.

The report deals with 161 samples, of which our inspectors found 97 to be offered for sale under registration numbers, as required by section 7 of the Act. In the cases of 53 other samples, although the registration number was not attached to the sample as offered for sale the description furnished to the inspectors was sufficient to enable us to identify the article, from recorded documents in possession of the department. Although a high degree of certainty attends such identification, it is to be noted (1) that neither vendor nor manufacturer can be legally held responsible for its accuracy, (2) that the fertilizers in question are sold illegally, and the vendor is subject to the penalty prescribed in section 15 of the Act.

Eleven (11) samples, sold without registration numbers, cannot be identified with any registered numbers in the books of this department; and appear to be unregistered.

These samples are clearly sold in violation of the law, and the vendors are subject to the penalties named in section 15.

Interpretation of the results of analysis is strictly speaking, only possible in the cases of the 97 samples sold under registration numbers. Of these samples, 81 (= 83·5 per cent) meet the requirements of their guarantee. The deficiency in the remaining 16 samples is usually in potash, and it is fair to remark that in general, the deficiency is very slightly in excess of that permitted by the Act—(sec. 15 allows of a deficiency of not more than one half of one per cent in cases when the total value is essentially, equal to the claim) and is, in some cases compensated by an excess of other valuable ingredients.

Of 53 samples, in whose case identification with registered brands has been attempted at this office, 44 are found to meet the requirements of the registered brands with which they have been so identified. In the 9 instances in which correspondence has not been found, I have considered it better to judge identification as faulty than to declare them adulterated as failing to meet a standard of uncertain application.

The remaining eleven (11) samples are apparently sold without being registered.

The efficiency of the Act of 1909, in protecting purchasers of fertilizers, is dependent upon the registration of all fertilizers offered for sale, and upon their carrying the registration number when actually sold. These conditions are made clear by sections 5 and 7 of the Act; and a penalty is imposed for violation of these conditions by section 15. It may be reasonable to exercise some leniency in this, the first year in which the Act has been operative; but the importance of fulfilling the above named conditions is such that I would respectfully urge the necessity of bringing vendors who neglect registration and proper labelling or tagging, under the penalties named in section 15.

I beg to recommend the publication of this report, with Appendix, as Bulletin No. 213.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,

(Enclosure)

Chief Analyst,  
per ALP. LEMOINE.



## 8-9 EDWARD VII.

## CHAP. 16.

## An Act respecting Agricultural Fertilizers.

[Assented to 19th May, 1909.]

HIS Majesty, by and with the advice and consent of the Senate and House of Commons of Canada, enacts as follows:—

1. This Act may be cited as *The Fertilizers Act, 1909*. Short title.
2. In this Act, unless the context otherwise requires,—
  - (a) "Minister" means the Minister of Inland Revenue; Definition.
  - (b) "fertilizer" includes every natural or artificial manure containing phosphoric acid, or nitrogen, or potash, except ordinary stable manure; "Minister." "Fertilizer."
  - (c) "registration number" means the specific number given by the Minister, under this Act, to each brand of fertilizer; "Registration number."
  - (d) "agent" means any person whose name has been filed with the Minister as provided in section 4 of this Act; "Agent."
  - (e) "guaranteed analysis" means the valuation of a fertilizer by the manufacturer or agent in terms of its content of phosphoric acid, nitrogen and potash. "Guaranteed analysis."
3. Fertilizers shall be considered as of distinct brands when differing either in guaranteed composition, trade mark, name, or in any other characteristic method of marking. Distinct brands.
4. Where the manufacturer of any fertilizer has his factory or chief place of business elsewhere than in Canada, he shall file with the Minister the name of a person resident in Canada, and acceptable to the Minister, or a corporation having its head office in Canada, as the agent or representative of such manufacturer for all the purposes of this Act; and any notice to, or communication or dealing with, such agent or representative by the Minister shall be effectual for all the purposes of Name of foreign manufacturer's agent or representative in Canada to be filed with Minister.



Default of filing.	2. In default of such filing, the Minister may take any proceeding or action under this Act <i>ex parte</i> , and without any notice to or communication with such person or corporation.
Registration number.	5. Every brand of fertilizer offered for sale in Canada shall bear a registration number, which shall be permanently assigned to the particular brand or species of fertilizer for which it is issued. The number shall be granted by the Minister on the application of the manufacturer of such brand of fertilizer, or his agent, and on payment of a fee of two dollars.
Fee.	
Application for registration number.	6. Every application for a registration number shall be accompanied by a statement giving the following particulars:— (a) Name of brand for which the registration number is asked, and trade mark, if any; (b) Name and address of manufacturer; (c) Name and address of the person applying for registration; (d) Guaranteed analysis; (e) Materials from which the fertilizer is made.
Registration number, how affixed.	7. The registration number must be affixed by the manufacturer, or agent, in a plain and legible manner, to every package of fertilizer sold or offered for sale, and shall constitute an identification of the brand. In addition to the registration number there must be legibly printed, on every package of fertilizer sold, the statement set out in schedule A to this Act. This condition shall be held to be fulfilled if a printed tag, bearing the registration number and the statement required, is securely attached to the package.
Statement required.	
Notice of change of formula and application for new number.	8. If a manufacturer elects to change the formula or composition of any fertilizer for which a registration number has been granted, he shall notify the Minister to that effect, and shall apply for a new registration number to designate the new or altered fertilizer, and the former registration number shall be cancelled, and shall not be reissued.
Annual license to sell.	9. No manufacturer of a fertilizer, and no agent of any such manufacturer, shall sell or offer for sale any fertilizer, as defined by section 2 of this Act, unless he has a license under this Act authorizing the sale thereof.
Fee.	2. Upon application of any such manufacturer or his agent, and upon payment of a fee of five dollars therefor, the Minister may grant a license authorizing the sale of such brands of fertilizers as are named in the license.
Period of validity.	3. Such license shall be in such form as the Minister prescribes and shall confer authority to sell during the calendar year in which the license is issued.
Renewal.	4. The Minister may renew any such license from year to year.

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**10.** Any purchaser of a registered fertilizer may obtain from the Minister an analysis of the fertilizer as delivered to him, by making application for such analysis, accompanied by a sample of the fertilizer of at least one pound weight, and taken in accordance with the directions given in schedule B to this Act, and on payment of a fee of one dollar.

Purchaser of registered fertilizer may obtain analysis.

**11.** The officers of Inland Revenue, the officers of Customs, the inspectors and deputy inspectors of weights and measures, and the inspectors of food, drugs and agricultural fertilizers acting under *The Adulteration Act* shall, when required so to do by any regulation made in that behalf by the Governor in Council or the Minister, act as inspectors of fertilizers, and shall procure and submit for analysis samples of fertilizers offered for sale in Canada.

Certain officers to act as inspectors.  
R.S., c. 133.

**12.** Every inspector of fertilizers shall, whenever instructed by the Minister so to do, obtain for analysis a sample of every fertilizer for sale in the district for which such inspector is appointed.

Inspectors to procure samples for analysis.

**2.** Every sample so obtained shall be transmitted to the Minister for submission to the chief analyst for analysis; and the result of all such analyses shall be published annually by the Minister in such manner as he sees fit, together with such other information pertaining to fertilizers as he deems it desirable should be published.

Analysis and publication of results.

**13.** If any fertilizer is imported for the personal use of the importer, and not for sale, this Act shall not apply thereto, but such importer may secure an analysis of the fertilizer, as delivered to him, on application to the Minister and on payment of a fee of five dollars. The sample submitted must be taken in accordance with the requirements of section 10 of this Act.

Fertilizers imported for personal use.

**14.** This Act shall not apply to fertilizers which are manufactured to the order of the purchaser and are not intended for sale, unless such fertilizers be actually sold by such purchaser; but such purchaser may secure an analysis of the fertilizer as delivered to him, under the conditions stated in section 10 of this Act, on payment of a fee of five dollars.

Fertilizer made to order, and not intended for sale.  
Analysis.

**15.** Every manufacturer or agent, or purchaser in the case provided for in the next preceding section, who sells or offers or exposes for sale any fertilizer in respect of which the provisions of this Act have not been complied with; or who sells or offers or exposes for sale any fertilizer which does not contain the percentage of constituents mentioned in the manufacturer's certificate accompanying such fertilizer, shall be liable in each case to a penalty not exceeding fifty dollars for the first offence, and for each subsequent offence to a penalty not exceeding one hundred dollars.

Penalties for non-compliance with this Act.

Proviso as to evidence of fraudulent intent.

dollars and, in default of payment of such penalty, to imprisonment for thirty days. Provided that a deficiency of one-half of one per cent of the ammonia or its equivalent in nitrogen or nitric acid, or of the phosphoric acid, or of the potash claimed to be contained in the fertilizer, shall not be considered as evidence of fraudulent intent, if the total value of the fertilizer in fertilizing materials is substantially equivalent to the guaranteed statement made by the manufacturer or agent.

Forgery of certificate, registration number, etc.

**16.** Every person who forges, or utters or uses knowing it to be forged, any manufacturer's certificate, registration number, or certificate of analysis required under this Act, is guilty of an indictable offence, and is liable to imprisonment for a term not exceeding two years, with or without hard labour.

Penalty.

Unlawful use of certificate, registration number, etc.

**17.** Every person who wilfully applies to any fertilizer a certificate, or tag, or registration number given in relation to any other package or lot of fertilizer, every person who sells an unregistered fertilizer, and every person who lowers the fertilizing value of a registered fertilizer by mixing any other substance therewith, after the said fertilizer has been placed upon the market by the manufacturer or agent, shall be liable, on summary conviction, to a penalty not exceeding five hundred dollars, and in default of payment to imprisonment for a term not exceeding twelve months.

Penalty.

False certificate.

**18.** Every person who gives a false certificate in writing with respect to a fertilizer sold by him as a principal or agent, shall be liable on summary conviction to a penalty not exceeding five hundred dollars, and in default of payment to imprisonment for a term not exceeding twelve months.

Penalty.

Application of fees and penalties.

**19.** All fees paid and penalties recovered under this Act shall form part of the Consolidated Revenue Fund of Canada.

R.S., c. 132 repealed.

**20.** *The Fertilizers Act*, chapter 132 of the Revised Statutes, 1906, is repealed.

Commencement of Act.

**21.** This Act shall come into force on the first day of January, one thousand nine hundred and ten.

## SCHEDULE A.

STATEMENT TO BE ATTACHED TO PACKAGE.

1. (*Name of brand.*)
2. (*Registration number.*)
3. (*Name and address of manufacturer.*)
4. (*Analysis, as guaranteed by the manufacturer.*)

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5. Notice. Any purchaser may have an analysis made by the Department of Inland Revenue, on payment of one dollar. Samples must be taken in conformity with the regulations. For regulations address the Deputy Minister of Inland Revenue, Ottawa.

## SCHEDULE B.

INSTRUCTIONS FOR TAKING SAMPLES OF FERTILIZERS TO BE  
SUBMITTED FOR ANALYSIS IN ACCORDANCE WITH SECTION 10.

Samples of fertilizer submitted by a purchaser for analysis must be inclosed in glass jars or bottles, and properly sealed. The samples must be taken in the presence of the vendor or of his representative.

*Process of Sampling.*

In lots of five tons, or less, portions shall be drawn from each separate package, and from at least ten packages; or if less than ten packages are present, all shall be sampled. In lots of over five tons, at least ten per cent of the packages shall be sampled. The portions so taken shall be thoroughly mixed in the presence of the parties interested, and from this mixture the sample sent to the Minister is to be taken; and must bear the signature of vendor and purchaser; and at the same time a duplicate sample is to be left with the party whose goods are inspected, subject to the call of the manufacturer or agent.

2 GEORGE V., A. 1912  
FERTILIZERS AS SOLD

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report.	Registered Number.
1910								

## DISTRICT OF NOVA SCOTIA—

May	6 Stockbridge Manure.	41981	W. O. Bates, Bridgewater, N.S.	5 lbs.	....	Bowker Fertilizer Co., Boston, Mass.	....	88
"	6 Potato and Vegetable Phosphate.	41982	" " "	"	....	" " "	....	92
"	6 Bradley's Potato Manure.	41983	E. Hebb, Bridgewater, N.S.	"	....	Am. Agr. Chem. Co., New York.	....	3
"	6 Pacific Potato Special.	41984	" " "	"	....	" " "	....	15
"	9 Swift's Potato Phosphate.	41985	A. J. Walker & Son, Truro, N.S.	"	....	Swifts Lowell Fertilizer Co., Boston, Mass.	....	110
"	9 Swift's Lowell Manure.	41986	" " "	"	....	" " "	....	114
"	9 Special Potato Phosphate.	41987	Colchester Farmers' Co-op. Asso., Ltd., Truro, N.S.	"	....	Nova Scotia Fertilizer Co., Halifax, N.S.	....	40
"	9 Bone Meal.....	41988	" " "	"	....	" " "	....	44
"	9 Ten per cent Potato Phosphate.	41989	" " "	"	....	" " "	....	(41)
"	9 Basic Slag.....	41990	Jas. Kirkpatrick, Shubenacadie, N.S.	"	....	Anglo-Continental Guano Works, London, Eng.	* .....	(47)
"	9 Basic Slag.....	41991	Thompson & Crowe Shubenacadie, N.S.	"	....	R. A. Munro, Glasgow, Scotland.	....	47
"	10 Grain and Grass Fertilizer.	41992	R. E. Harris & Son, Wolfville, N.S.	"	....	Essex Fertilizer Co., Boston, Mass.	....	120
"	10 Complete Manure for Potatoes, Roots and Vegetables.	41993	" " "	"	....	" " "	....	119
"	10 Square Brand.....	41994	Burgess & Co., Wolfville, N.S.	"	....	Bowker Fertilizer Co., Boston, Mass.	....	95
"	10 Basic Slag.....	41995	G. F. Roy, Kentville, N.S.	"	....	Anglo-Continental Guano Works, London, Eng.	....	106
"	10 Pacific Guano. ....	41996	" " "	"	....	Am. Agr. Chem. Co., New York.	....	14

\* I could not find a number on the bag owing to the fertilizer working through.



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—BULLETIN No. 213

Analysis of Sample.	RESULTS OF ANALYSIS.									Remarks and Opinion of the Chief Analyst.	
	Nitrogen, p.c.		Phosphoric Acid, p.c.					Potash.	Moisture.		Number 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.				
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			

R. J. WAUGH, INSPECTOR.

As guaranteed....	3.29	4	4	2	1	7	6	10	.....	41981	Slightly below guarantee in potash.
As found. ....	3.12	3.79	4.75	1.48	1.27	7.50	6.23	8.16	.....	.....	
As guaranteed....	1.65	2	6	2	1	9	8	2	.....	41982	Up to guarantee.
As found. ....	1.37	1.67	4.70	4.20	1.90	10.80	8.90	2.02	.....	.....	
As guaranteed....	2.06	2.50	6	2	1	9	8	3	.....	41983	" "
As found. ....	2.02	2.45	6.12	2.03	1.60	9.75	8.15	3.15	.....	.....	
As guaranteed....	2.06	2.50	6	2	1	9	8	3	.....	41984	" "
As found. ....	1.96	2.36	6.12	3.23	1.25	10.60	9.35	3.34	.....	.....	
As guaranteed....	2.46	3	4	4	1	9	8	6	.....	41985	" "
As found. ....	2.38	2.89	4.32	4.51	0.87	9.70	8.83	5.69	.....	.....	
As guaranteed....	1.64	2	4	3	1	8	7	4	.....	41986	" "
As found. ....	2.12	2.58	4.25	3.03	0.97	8.25	7.28	3.76	.....	.....	
As guaranteed....	2.5	.....	.....	.....	2	8	6	7	.....	41987	" "
As found. ....	1.96	2.38	.....	.....	1.92	8.25	6.33	8.69	.....	.....	
As guaranteed....	.....	3	.....	.....	.....	23	.....	.....	.....	41988	" "
As found. ....	2.88	3.50	.....	.....	.....	23.10	.....	.....	.....	.....	
As guaranteed....	.....	2.5	.....	.....	2	8	6	10	.....	41989	Up to assumed guarantee.
As found. ....	2.46	2.99	.....	.....	0.92	8.65	7.73	11.10	.....	.....	
As guaranteed....	.....	.....	.....	.....	.....	14	12	.....	.....	41990	" " "
As found. ....	.....	.....	.....	.....	.....	14.90	.....	.....	.....	.....	
As guaranteed....	.....	.....	.....	.....	.....	14	12	.....	.....	41991	Up to guarantee.
As found. ....	.....	.....	.....	.....	.....	14.50	12.13	.....	.....	.....	
As guaranteed....	0.82	1	4	4	1	9	8	4	.....	41992	" "
As found. ....	0.85	1.04	5.10	2.90	1.25	9.25	8.00	3.78	.....	.....	
As guaranteed....	3.28	4	3	3	1	7	6	10	.....	41993	" "
As found. ....	3.14	3.80	3.37	4.21	1.12	8.70	7.58	10.77	.....	.....	
As guaranteed....	1.65	2	4	2	1	7	6	2	.....	41994	" "
As found. ....	1.65	2	4.12	3.33	1.65	9.10	7.45	1.84	.....	.....	
As guaranteed....	.....	.....	.....	.....	.....	13.7	.....	.....	.....	41995	" "
As found. ....	.....	.....	.....	.....	.....	13.40	.....	.....	.....	.....	
As guaranteed....	2.06	2.5	6	2	1	9	8	1.5	.....	41996	" "
As found. ....	1.74	2.21	6.08	2.52	1.35	9.95	8.60	1.56	.....	.....	

NOTE—When the registered number is printed within brackets this number has been assigned by reference to the Departmental records. The vendor cannot be held responsible for its accuracy, nor can the manufacturer.

2 GEORGE V., A. 1912

## FERTILIZERS AS SOLD

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report.	Registered Number.
1910.								

## DISTRICT OF NOVA SCOTIA—

May 11	Special Potato Manure.	41997	C. O. Allen, Kentville, N.-S.	5 lbs.	....	Alex. Cross & Son, Glasgow, Scotland.	.....	166
" 11	Great Eastern High Grade Potato Manure.	41998	" " "	5 "	....	Am. Agr. Chem. Co., New York.	.....	201
" 11	Peruvian Guano ..	41999	C. O. Cook & Son, Waterville, N.-S.	5 "	....	Nitrate Agencies Co., Toronto.	.....	303
" 11	Berry Brand .....	42000	Manufacturer.....	5 "	....	Pidgeon Fertilizer Co., Windsor, N.S.	.....	30

## DISTRICT OF PRINCE EDWARD ISLAND—

May 10	Bone and Potash ..	38706	R. E. Mutch & Co., Charlottetown.	3 lbs.	...	Nova Scotia Fertilizer Co., Halifax, N.-S.	.....	45
" 10	Ceres Superphosphate.	38707	" " "	3 "	....	" " "	.....	37
" 11	Potato Phosphate.	38708	A. Horne & Co., Charlottetown.	3 "	....	Swifts Lowell Fertilizer Co., Boston, Mass.	.....	110
" 11	Animal Brand...	38709	" " "	3 "	....	" " "	.....	116
" 11	Bone Fertiliser....	38710	" " "	3 "	....	" " "	.....	113
" 12	Bone Meal.....	38711	R. E. Mutch & Co., Charlottetown.	3 "	....	Nova Scotia Fertilizer Co., Halifax, N.-S.	.....	44
" 17	Muriate of Potash.	38712	Auld Bros., Charlottetown.	3 "	....	German Kali Works Germany.	.....	305
" 17	Nitrate of Soda...	38713	" " "	3 "	....	W. R. Grace & Co., New York.	Not registered.	(325)
" 17	Superphosphate...	38714	" " "	3 "	....	Thos. Vickers & Son, Manchester, G.B.	" "	(324)
" 17	Superphosphate...	38715	J. H. Gill, Charlottetown.	3 "	....	A. Cross & Sons, Glasgow.	" "	(327)
" 17	Nitrate of Soda. ..	38716	" " "	3 "	....	Nitrate Agency, New York.	" "	(255)

## DISTRICT OF NEW BRUNSWICK—

April 19	Special Potato Phosphate.	39695	Manufacturers...	3 jars.	10	The Provincial Chem. Fertl'r. Co., Ltd., St. John, N.-B.	.....	63
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SESSIONAL PAPER No. 14

—BULLETIN No. 213.

Analysis of Sample.	RESULTS OF ANALYSIS.										Remarks and Opinion of the Chief Analyst.	
	Nitrogen, p.c.		Phosphoric Acid, p.c.						Potash.	Moisture.		Number of Sample.
	Total, including that of nitric acid or ammonia if present.	Total calculated as ammonia.	Soluble in Water.	Reverted or Cit- rate Soluble.	Insoluble.	Total.	Total available.					
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			

R. J. WAUGH, INSPECTOR—*Concluded.*

As guaranteed ....	2.75	3.5	7	8.5	2.5	9	8.5	3.25	8	41997	Up to guarantee.
As found.....	3.54	4.30	7.17	2.83	1.05	11.05	10.00	3.32	.....	.....	
As guaranteed ....	3.29	4	4	2	1	7	6	10	.....	41998	" "
As found.....	2.91	3.52	4.90	1.23	1.12	7.25	6.13	9.23	.....	.....	
As guaranteed ....	2.34	2.85	.....	.....	.....	15.25	7.80	2.44	.....	41999	" "
As found.....	2.80	3.40	.....	.....	2.37	16.60	14.23	3.10	.....	.....	
As guaranteed ....	3.20	4	6	1	2	9	6	10	10	42000	Below guarantee in Nitrogen.
As found.....	2.24	2.72	4.25	3.80	0.95	9.00	8.05	10.7	.....	.....	

THEO. MOORE, INSPECTOR.

As guaranteed ....	.....	2	.....	.....	.....	11	.....	2	.....	38706	Up to guarantee.
As found.....	2.50	2.80	.....	.....	.....	19.11	.....	3.10	.....	.....	
As guaranteed ....	.....	2	.....	.....	2	9	7	2	.....	38707	" "
As found.....	1.26	1.53	.....	.....	1.12	9.10	7.98	2.45	.....	.....	
As guaranteed ....	2.46	3.00	4	4	1	9	8	6	.....	38708	Below guarantee in total P <sub>2</sub> O <sub>5</sub>
As found.....	2.49	3.02	4.12	2.55	1.04	7.71	6.67	5.84	.....	.....	
As guaranteed ....	2.46	3.00	4	4	2	10	8	4	.....	38709	Up to guarantee.
As found.....	2.49	3.02	5.62	3.48	1.65	10.75	9.10	4.40	.....	.....	
As guaranteed ....	1.64	2	4	4	1	9	8	3	.....	38710	" "
As found.....	2.01	2.45	4.95	4.35	1.20	10.50	9.30	3.63	.....	.....	
As guaranteed ....	.....	3	.....	.....	.....	23	.....	.....	.....	38711	" "
As found.....	2.54	3.09	.....	.....	.....	23.10	.....	.....	.....	.....	
As guaranteed ....	.....	.....	.....	.....	.....	.....	.....	50	.....	38712	" "
As found.....	.....	.....	.....	.....	.....	.....	.....	49.5	.....	.....	
As guaranteed ....	15	.....	.....	.....	.....	.....	.....	.....	.....	38713	Up to assumed guarantee.
As found.....	15	18.22	.....	.....	.....	.....	.....	.....	.....	.....	
As guaranteed ....	.....	.....	.....	.....	.....	.....	.....	16	.....	38714	" "
As found.....	.....	.....	.....	.....	2.15	19.50	17.35	.....	.....	.....	
As guaranteed ....	.....	.....	.....	.....	.....	.....	.....	.....	.....	38715	" "
As found.....	.....	.....	18.85	.....	.....	18.85	.....	.....	.....	.....	
As guaranteed ....	.....	15	18.3	.....	.....	.....	.....	.....	.....	38716	" "
As found.....	15.14	18.40	.....	.....	.....	.....	.....	.....	.....	.....	

J. C. FERGUSON, INSPECTOR.

As guaranteed ....	.....	2.5	.....	.....	.....	8	.....	6	.....	39695	Up to guarantee.
As found.....	2.27	2.75	.....	.....	.....	9.85	.....	8.32	.....	.....	

\* 35 per cent phosphate.

2 GEORGE V., A. 1912

## FERTILIZERS AS SOLD

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report.	Registered Number.
1910.								

## DISTRICT OF NEW BRUNSWICK—

April 19	10 p.c. Complete Aroostook Potato.	39696	Manufacturers ...	3 jars	10	The Provincial Chem Fert'g Co., Ltd., St. John, N.B.		65
" 19	Bone Meal. ....	39697	"	3 "	10	"		72
" 21	Swifts Lowell Animal Brand.	39698	P. Nase & Son, St. John, N.B.	3 "	15	Swifts Lowell Fert'g Co., Boston, Mass.		116
" 21	Swifts Lowell Potato Manure.	39699	"	3 "	15	"		114
" 21	Swifts Lowell Empress Brand.	39700	"	3 "	15	"		(112)
" 28	Thomas Phosphate Powder (Alberts Basic Slag).	45201	The Anglo Canadian Chem. Co., St. John, N.B.	3 "	15	H. & E. Albert, Londre, Ang.		1
" 28	Special Odourless Potato Phosphate	45202	"	3 "	15	"		142
" 29	Bowker's Potato Phosphate.	45203	D. J. Seely & Son, St. John, N.B.	3 "	15	Bowker Fert'g Co., Boston, Mass.		92
" 29	Stoekbridge Potato	45204	"	3 "	15	"		88
May 5	Bradleys X. L. Superphosphate of Lime.	45205	A. H. Vanwart, Fredericton, N.B.	3 "	15	The Am. Agr. Chem. Co., (Bradley Fert'g Works) Boston & New York.		2
" 5	Bradleys Potato Fertilizer.	45206	"	3 "	15	"		3
" 7	Aroostook Complete Manure.	45207	Solomon Perley, Woodstock, N.B.	3 "	15	The Am. Agr. Chem. Co., New York.		184
" 7	Quinnipiac Climax Phosphate	45208	Phillips Estey & Co., Woodstock, N.B.	3 "	15	"		13
" 9	Bradleys High Grade Fertilizer with 19 p.c. Potash.	45209	Guy G. Porter, Perth, N.B.	3 "	15	"		8
" 18	New England Peerless Fertilizer.	45210	The Sussex Mercantile Co., Ltd., Sussex, N.B.	3 "	15	New England Fert'g Co., Boston, Mass.		134
" 18	New England Corn and Grain Fertilizer	45211	The Sussex Mercantile Co., Ltd., Sussex, N.B.	3 lbs.	15	New England Fertilizer Co., Boston, Mass.		132
" 18	Bowker's Bone and Potash (Square Brand).	45212	W. B. McKay & Co., Sussex, N.B.	3 "	15	Bowker Fertilizer Co., Boston, Mass.		95

\* The warehouseman spoke of the Fertilizer as Reads. I give what was on P'kge from which sample was taken.

SESSIONAL PAPER No. 14

—BULLETIN No. 213.

Analysis of Sample.	RESULTS OF ANALYSIS.										Remarks and Opinion of the Chief Analyst.	
	Nitrogen, p.c.			Phosphoric Acid, p.c.					Potash.	Moisture.		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.					
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				

J. C. FERGUSON, INSPECTOR—*Continued.*

As guaranteed	4					8	10		39696	
As found	3.08	3.74				9.20	10.66			Up to guarantee.
As guaranteed	3.10					24.15		6.25	39697	
As found	3.23	3.93				24.00				
As guaranteed	2.46	3	4	4	2	10	8	4	39698	"
As found	2.10	2.55	6.37	1.33	2.30	10	7.70	4.09		"
As guaranteed	1.64	2	4	3	1	8	7	4	39699	
As found	1.49	1.70	5	2.15	0.85	8	7.15	3.51		Below guarantee in pot-
As guaranteed	1.25	1.50	4	3	1	8	7	2	39700	ash.
As found	1.17	1.42	5.56	3.35	1.15	10.00	8.85	2.51		Up to assumed guaran-
As guaranteed						15			45201	tee.
As found				13.95	2.50	16.45	13.95			Up to guarantee.
As guaranteed	2					7	7		45202	
As found	2.28	2.77				9.10	6.51			"
As guaranteed	1.65	2	6	2	1	9	8	2	45203	"
As found	1.61	1.95	6	4.10	1.60	11.70	10.10	1.95		"
As guaranteed	3.29	4	4	2	1	7	6	10	45204	
As found	3.12	3.79	4.67	2.68	1	8.35	7.35	7.51		Below guarantee in pot-
As guaranteed	2.06	2.5	6	2	1	9	8	1.5	45205	ash.
As found	1.92	2.33	7.07	2.81	1.07	10.95	9.88	2.62		Up to guarantee.
As guaranteed	2.06	2.5	6	2	1	9	8	3	45206	
As found	2.34	2.84	7.10	3.30	1.05	11.45	10.40	3.14		"
As guaranteed	2.47	3	4	2	1	7	6	10	45207	"
As found	2.35	2.86	5.02	2.23	1.10	8.35	7.25	9.98		"
As guaranteed	1.03	1.25	6	2	1	9	8	2	45208	"
As found	1.07	1.22	6.90	2.38	1.67	10.95	9.28	2.20		"
As guaranteed	2.47	3	4	2	1	7	6	10	45209	
As found	2.49	3.02	4.67	3.56	1.27	9.50	8.23	10.24		"
As guaranteed	0.82	1	4	3	1	8	7	1	45210	
As found	1.05	1.28	4.72	2.96	1.37	9.05	7.68	1.42		"
As guaranteed	1.22	1.5	4	3	1	8	7	2	45211	
As found	1.37	1.67	4.35	3.28	0.97	8.60	7.63	3.28		"
As guaranteed	1.65	2	4	2	1	7	6	2	45212	
As found	1.57	1.90	3.50	5.03	1.57	9.10	8.53	1.47		"



2 GEORGE V., A. 1912

## FERTILIZERS AS SOLD

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report.	Registered Number.
1910.								

## DISTRICT OF NEW-BRUNSWICK—

May 19	Soluble Pacific Guano.	45213	Toombs & Son, Moncton, N.-B.	3 lbs.	15	The Am. Agr. Chem. Co., New York.		14
" 19	Pacific Potato Special.	45214	"	3 "	15	"		15

## DISTRICT OF QUEBEC—

May 2	Fruit and Vine...	36588	P. T. Legare, Quebec.			The Am. Agr. Chem. Co., Buffalo.	No license on hand.	212
" 2	Virginia Tobacco Fertilizer.	36589	"			"	"	207
" 2	Complete Fertilizer.	36590	"			"	"	(206)
" 2	Homestead High Grade Garden & Vegetable Brand	36591	"			"	"	(210)
" 2	Fertilizer.....	36592	"			Capelton Chem. & Fert. Co., Buckingham.	"	87
" 2	Defiance Brand...	36593	"			Am. Fertilizer Co., Buffalo.	"	(203)
" 2	Fertilizer .....	36594	Manufacturer..			F. C. Marquis, Quebec.	"	?
" 3	Complete Manure.	36595	Julien & Vezina, Quebec.			"	Impossible to see analysis as it is effaced.	226
" 3	Thomas Phosphate (Basic Slag).	36596	"			Leeds Phosphate Works, Leeds, Eng.	"	253
" 3	Bilston Basic Slag.	36597	J. B. Reneaud & Cie, Quebec.			British Oil & Cake Mills, Liverpool.	"	302

## DISTRICT OF ST. HYACINTHE—

April 21	Bradley's Potato..	40285	James F. Kerr, Sherbrooke, P.Q.	3 jars.		Am. Agr. Chem. Co.		(3)
" 21	Eclipse.....	40286	"	3 "		"		(4)
" 21	Corn Special.....	40287	J. S. Mitchell & Co., Sherbrooke.	3 "		Capelton Chem. & Fertilizer Co.		(82)
" 21	Royal Canadian ..	40288	"	"		"		(84)
" 21	Capelton.....	40289	"	"		"		(81)
"	Reliance.....	40290	"	"		"		(86)

SESSIONAL PAPER No. 14

—BULLETIN No. 213.

Analysis of Sample.	RESULTS OF ANALYSIS.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Nitrogen, p.c.		Phosphoric Acid, p.c.						Potash.	Moisture.		
	Total, including that of nitric acid or ammonia if present.	Total calculated as ammonia.	Soluble in Water.	Reverted or Ci- trate Soluble.	Insoluble.	Total.	Total available.					
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			

J. C. FERGUSON, INSPECTOR—*Concluded.*

As guaranteed ....	2.06	2.5	6	2	1	9	8	1.5	.....	45213	
As found.....	2.02	2.45	5.37	2.08	1.15	9.60	7.45	1.78	.....		Up to guarantee.
As guaranteed ....	2.06	2.5	6	2	1	9	8	3	.....	45214	
As found.....	2.07	2.52	5.20	3.45	1.40	10.05	8.65	3.24	.....		"

E. BELAND, INSPECTOR.

As guaranteed ...	1.65	2	6	2	1	9	8	10	.....	36588	
As found.....	1.79	2.18	5.25	4.03	1.82	11.10	9.28	8.50	.....		Below guarantee in potash.
As guaranteed ...	1.65	2	6	2	1	9	8	4	.....	36589	
As found.....	1.58	1.92	7.00	1.70	2.00	10.70	8.70	4	.....		Up to guarantee.
As guaranteed ...	1.65	2	6	2	1	9	8	.....	.....	36590	
As found.....	1.85	2.26	.....	14.00	4.00	18.00	14.00	.....	.....		Apparently in correct identification.
As guaranteed ...	2.06	2.5	6	2	6	9	8	6	.....	36591	
As found.....	1.45	1.76	7.12	1.33	0.85	9.30	8.45	8.05	.....		"
As guaranteed ...	3.29	4	6	2	1	9	8	7	.....	36592	
As found.....	0.40	0.54	6.00	2.48	1.42	9.90	8.48	1.52	.....		Below guarantee in potash.
As guaranteed ...	1.65	2	6	2	1	9	8	2	.....	36593	
As found.....	1.35	1.66	7.52	4.03	1.80	13.35	11.55	3.70	.....		Up to assumed guarantee
As guaranteed ...	3.14	3.81	.....	13.10	8.50	21.60	13.10	.....	15.80	36594	
As found.....	4.42	5.37	.....	11.95	4.45	16.40	11.95	.....	.....		Apparently not registered.
As guaranteed ...	2.06	2.5	6	2	1	9	8	3	.....	36595	
As found.....	2.17	2.63	5.52	3.21	1.87	10.60	8.73	3.91	.....		Up to guarantee.
As guaranteed ...	.....	.....	.....	.....	.....	18	.....	.....	.....	36596	
As found.....	.....	.....	.....	14.00	1	18.00	14.00	.....	.....		"
As guaranteed ...	.....	.....	.....	15.40	3.85	19.25	.....	.....	.....	36597	
As found.....	.....	.....	.....	16.40	3.85	20.25	16.40	.....	.....		"

J. J. COSTIGAN, ACTING INSPECTOR.

As guaranteed ...	2.06	2.5	6	2	1	9	8	3	.....	40285	
As found.....	1.75	2.09	7.12	2.56	1.47	11.15	9.68	3.28	.....		Up to assumed guarantee
As guaranteed ...	1.03	1.25	6	2	1	9	8	2	.....	40286	
As found.....	0.90	1.09	7.35	1.60	2.05	11.00	8.95	2.95	.....		"
As guaranteed ...	1	.....	.....	.....	.....	7	.....	3	.....	40287	
As found.....	1.03	1.25	.....	.....	.....	11.35	.....	4.19	.....		"
As guaranteed ...	.....	4	.....	.....	.....	9	.....	5	.....	40288	
As found.....	3.48	4.23	.....	.....	.....	11.20	.....	4.42	.....		"
As guaranteed ...	.....	.....	.....	.....	.....	10	.....	.....	.....	40289	
As found.....	.....	.....	.....	.....	.....	10.90	.....	.....	.....		"
As guaranteed ...	2	.....	.....	.....	.....	.....	.....	6.2	.....	40290	
As found.....	1.97	2.39	.....	.....	3.60	10.90	7.30	2.81	.....		"

2 GEORGE /., A. 1912

## FERTILIZERS AS SOLD

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report.	Registered Number.
1910								

## DISTRICT OF ST. HYACINTHE—

April 27	Pacific Guano. ....	40291	H. E. Baldwin, Barfour, P.Q.	3 jars. ....		Am. Agr. Chem. Co. ....		(14)
" 27	Bradley's High Grade.	40292	" " ..	" .....		" " .....		(8)
" 27	Fertilizer. ....	40293	B. J. Smith & Son, Coaticook, P.Q.	" .....		Bowker Fert. Co. ....		(91)
" 27	" .....	40294	" " ..	" .....		" " .....		?

## DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR

April 20	Victor ... ..	1101	A. Dubeau, St. Ré- dempteur.	3 lbs. ....		Capelton Chem. & Fert. Co., Buck- ingham. ....		83
" 21	Sure Crop Bone Phosphate.	1102	Besner & Chasle, Valleyfield.	" .....		Bowker Fert. Co., Boston, Mass. ....		98
" 22	Celery and Potato.	1103	T. Cogeland, Herd- man's Corner.	" .....		Buffalo Fert. Co., Buffalo. ....		57
" 22	Ideal Wheat and Corn.	1104	" " ..	" .....		" " ..		56
" 22	Bradley's B. ....	1105	Wm. Henderson, Herdman's Cor- ner.	" .....		The Am. Agr. Chem Co., New York. ....		259
" 26	Tobacco Manure..	1106	Wm. Ewing & Co. Montreal.	" .....		Freeman's Fert. Works, Hamil- ton. ....		149
" 29	Sure Growth Man- ure.	1107	" " ..	" .....		" " ..		144
" 29	Potato Manure....	1108	" " ..	" .....		" " ..		145
" 26	Victor.....	1109	R. J. Latimer & Co., Montreal.	" .....		Capelton Chem. & Fert. Co., Buck- ingham. ....	Could not find a Reg- istration No.	(83)
" 26	Beans and Pota- toes.	1110	Dupuy & Furgu- son, Montreal.	" .....		The Am. Agr. Chem. Co., New York. ....		260
" 26	Crockers New Gen- eral Crop.	1111	Lapaille Freres, Lachine.	" .....		" " ..		301
" 27	Milson's Buffalo Guano.	1112	F. H. McKough, Hemmingford.	" .....		" " ..		264
" 28	Victor Guano. ....	1113	O. Chevalier & Fils, Joliette.	" .....		Prov. Chem. Fert. Co., Ltd., St. John, N.B. ....		68

SESSIONAL PAPER No. 14

—BULLETIN No. 213.

Analysis of Sample.	RESULTS OF ANALYSIS.										Remarks and Opinion of the Chief Analyst.	
	Nitrogen, p.c.		Phosphoric Acid, p.c.						Potash.	Moisture.		Number 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.					
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			

J. J. COSTIGAN, ACTING INSPECTOR—*Concluded.*

As guaranteed....	2.06	2.5	6	2	1	9	8	1.5	.....	40291	Up to assumed guarantee
As found.....	2.13	2.59	3.25	6.38	1.37	10.90	9.63	2.10	.....	.....	
As guaranteed....	2.47	3	4	2	1	7	6	10	.....	40292	" "
As found.....	2.63	3.20	4.82	2.50	0.55	7.87	7.32	9.70	.....	.....	
As guaranteed....	2.47	3	6	2	1	9	8	4	.....	40293	" "
As found.....	2.49	3.03	6.90	2.85	1.60	11.35	9.75	5.89	.....	.....	
As guaranteed....	.....	.....	.....	.....	.....	.....	.....	.....	.....	40294	Apparently not registered.
As found.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	

AND J. C. ROULEAU, ACTING INSPECTOR.

As guaranteed....	.....	2	.....	.....	.....	7	.....	3	.....	1101	Up to guarantee.
As found.....	1.89	2.29	.....	.....	.....	10.12	.....	3.88	.....	.....	
As guaranteed....	0.82	1	4	2	1	7	6	2	.....	1102	" "
As found.....	1.40	1.71	4.80	4.05	3.00	11.85	8.85	1.58	.....	.....	
As guaranteed....	1.6	2	6	2	1	9	8	10	.....	1103	Below guarantee in potash.
As found.....	1.97	2.38	5.47	2.93	2.10	10.50	8.40	6.23	.....	.....	
As guaranteed....	1.6	2	7	2	1	10	9	5	.....	1104	" "
As found.....	1.65	2	5.30	3.25	2.00	10.55	8.55	3.44	.....	.....	
As guaranteed....	0.82	1	6	2	1	9	8	4	.....	1105	Up to guarantee.
As found.....	0.95	1.16	6.52	3.01	1.27	10.80	9.53	3.86	.....	.....	
As guaranteed....	2.47	3	5	2	0.25	7.25	7	5	8	1106	" "
As found.....	2.35	2.86	4.77	2.73	2.25	9.75	7.50	10.05	.....	.....	
As guaranteed....	2.89	3.5	5	3	0.25	8.25	8	3	8	1107	" "
As found.....	3.12	3.80	4.55	4.60	2.05	11.20	9.15	3.74	.....	.....	
As guaranteed....	2.47	3	5	3	0.25	8.25	8	5	8	1108	" "
As found.....	3.15	3.82	3.75	3.30	3.70	10.75	7.05	6.62	.....	.....	
As guaranteed....	.....	2	.....	.....	.....	7	.....	3	.....	1109	Up to assumed guarantee
As found.....	2.13	2.58	.....	.....	.....	9.30	.....	2.92	.....	.....	
As guaranteed....	0.82	1	6	2	1	9	8	4	.....	1110	Up to guarantee.
As found.....	0.78	0.94	7.00	2.25	1.55	10.80	9.25	4.01	.....	.....	
As guaranteed....	0.82	1	6	2	1	9	8	1	.....	1111	" "
As found.....	1.14	1.39	6.85	1.50	2.00	10.35	8.35	1.54	.....	.....	
As guaranteed....	0.82	1	6	2	1	9	8	4	.....	1112	Below guarantee in potash.
As found.....	0.90	1.09	5.95	3.75	1.40	11.10	9.70	2.94	.....	.....	
As guaranteed....	.....	2	.....	.....	.....	7	.....	2.5	.....	1113	Up to guarantee.
As found.....	1.45	1.76	.....	.....	.....	8.95	.....	5.67	.....	.....	

2 GEORGE V., A. 1912  
FERTILIZERS AS SOLD

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report.	Registered Number.*
1910.								

## DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR

May	3	Phosphate for Grass.	1114	O. Chevalier et fils, Joliette.	3 lbs. ....	Glencarmuck Phosph. Works.	Could not find place where made.	254
"	3	No. 1 .....	1115	Vessot & Cie, Joliette.	3 " .....	Capelton Chem. & Fert. Co., Buckingham.	.....	81
"	4	Crookers High Grade Special Fertilizer.	1116	J. A. Piette, Berthierville.	3 " .....	The Am. Agr. Chem. Co. New York.	.....	261
"	4	Michigan Carbon Works Virginia Tobacco Fertilizer.	1117	O. Piette, Berthierville.	3 " .....	Mfg. by Michigan Carbon Works for Am. Agr. Chem. Co.	.....	207
"	4	Crookers Complete Manure.	1119	W. M. Rennie, Ltd., Montréal.	3 " .....	Am. Agr. Chem. Co.	.....	193
"	11	Milson's Special Bean and Grain.	40163	Wm. Anderson, Herdman, P.Q.	3 " .....	" " .....	.....	(263)
"	21	Fertilizer.....	40164	J. B. Walsh, Orms-town, P.Q.	3 " .....	Buffalo Fert. Co..	.....	?

## DISTRICT OF OTTAWA—

April	13	Sure Growth Manure.	42947	Kenneth McDonald & Sons, Ottawa.	3 lbs. ..	12	The W. A. Freeman Co., Ltd., Hamilton.	Could find no Reg. No. on bags.	(144)
"	13	Celery and Early Vegetable Manure	42948	" " "	3 " ..	13	" " "	" ..	[(148)
"	13	Tankage.....	42950	Graham Bros., Ottawa.	3 " ..	5	" " "	" ..	(150)
"	13	Bone Meal. ....	42951	" " "	3 " ..	5	" " "	.....	146
"	13	Bradley's Complete Manure for Potatoes and Vegetables.	42952	" " "	3 " ..	10	The Am. Agr. Chem. Co., New York.	.....	191
"	18	Standard Fertilizer	42953	Manufacturers ..	3 " ..	Nil	The Standard Fert. and Chem. Co., Smith's Falls.	.....	280
"	18	Watch 'em Grow..	42954	" " "	3 " ..	"	" " "	.....	282
"	18	Phosphate Plaster.	42955	" " "	3 " ..	"	" " "	.....	283
"	19	Capelton Fertilizers.	42956	" " "	3 " ..	"	Capelton Chem. & Fert. Co., Buckingham.	.....	87
"	19	Victor.....	42957	" " "	3 " ..	"	" " "	.....	83



SESSIONAL PAPER No. 14

—BULLETIN No. 213.

Analysis of Sample.	RESULTS OF ANALYSIS.									Number 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 Ci- trate Soluble.	Insoluble.	Total.	Total available.	Potash.	Moisture.		
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			

AND J. C. ROULEAU, ACTING INSPECTOR—*Concluded.*

As guaranteed....						*				1114	Up to guarantee.
As found.....				12·18	4·77	16·95	12·18				
As guaranteed....						10				1115	"
As found.....						11·40					
As guaranteed....	1·65	2	6	2	1	9	8	4		1116	"
As found.....	1·58	1·92	6·77	9·28	1·42	10·70	9·28	4·33			
As guaranteed....	1·65	2	6	2	1	9	8	4		1117	"
As found.....	1·51	1·84	6·67	1·96	1·87	10·50	8·63	5·64			
As guaranteed....	0·82	1	6	2	1	9	8	4		1119	"
As found.....	0·98	1·19	7·35	1·40	1·25	10·00	8·75	3·78			
As guaranteed....			8	2	1	11	10	8		40163	Up to assumed guarantee
As found.....			9·40	0·90	0·70	11·00	10·30	9·65			
As guaranteed....										40164	Apparently not registered.
As found.....											

J. A. RICKEY, INSPECTOR.

As guaranteed....	2·89	3·5	5	3	0·25	8·25	8	3	8	42947	Up to assumed guarantee
As found.....	3·35	4·07				11·30		4·19			
As guaranteed....	4·12	5	5·5	3·5	0·25	9·25	9	5	8	42948	" "
As found.....	4·34	5·27				9·10		4·88			
As guaranteed....		6				13				42950	" "
As found.....	5·99	7·27				16·25					
As guaranteed....	2·47	3		20	1	21	20		9	42951	Up to guarantee.
As found.....	4·07	4·95		17·00	5·20	22·20	17·00				
As guaranteed....	3·29	4	6	2	1	9	8	7		42952	"
As found.....	3·36	4·08	7·77	2·21	0·62	10·60	9·98	7·66			
As guaranteed....	2	2·4	8	1	5	14	9	2	8	42953	"
As found.....	2·13	2·58	8·12	2·38	6	16·50	10·50	3·01			
As guaranteed....		4				9	8			42954	"
As found.....	4·09	4·94		10·60	0·40	11·00	10·60	7·57			
As guaranteed....					5	5				42955	"
As found.....					4·62	9·80	5·18				
As guaranteed....						10				42956	"
As found.....						12·15					
As guaranteed....		2				7	3			42957	"
As found.....	2·12	2·58				9·00	3·70				

\* 2 $\frac{1}{2}$  per cent Sol. Phosphate.14—11 $\frac{1}{2}$

2 GEORGE V., A. 1912

## FERTILIZERS AS SOLD

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report.	Registered Number.
1910.								

## DISTRICT OF KINGSTON—

April 19	Sea Fowl Guano ..	44292	Earl Spencer, Pic-ton.	3 lbs..	10	Am. Agr. Chem. Co., Buffalo.	.....	(188)
" 19	High Grade Potash	44293	" ..	3 " ..	10	" ..	.....	(182)
" 19	Complete Manure.	44294	" ..	3 " ..	10	" ..	.....	?
" 20	Bone and Potash..	44295	Thompson & Mc-Donald, Cobourg	3 " ..	10	W.A.Freeman Co., Hamilton.	.....	(147)
" 20	Potato Manure....	44296	" ..	3 " ..	10	" ..	.....	(145)
" 20	Sure Growth Man-ure.	44297	" ..	3 " ..	10	" ..	.....	(144)
" 20	Lawn Fertilizer...	44298	" ..	3 " ..	10	" ..	.....	(157)

## DISTRICT OF TORONTO—

May 5	Crocker's Best Pot-ash Fertilizer.	45037	R. Moore & Son, Welland.	4 lbs..	15	Am. Agr. Chem. Co., Buffalo.	... ..	194
" 6	Crocker's Potato Special, Wheat and Corn Fertilizer.	45038	Jno. McLeod, Sr., Ridgeway.	4 " ..	15	" ..	.....	195
" 6	Farmers Choice...	45039	B. L. Edgecombe, Dunville.	4 " ..	15	The Buffalo Fertilizer Co, Buffalo	.....	55
" 9	Celery and Potato Special.	45040	J. E. Barrick, Port Colborne.	4 " ..	15	The Buffalo Fertilizer Co., Buffalo.	.....	57
" 10	Bradleys, B.D. Sea fowl guano.	45041	Titterington Bro., St. Catharines.	4 " ..	15	The Am. Agr. Chem. Co., Buffalo.	.....	188
" 10	Davies Blood meat and Bone.	45042	The St. Catharines Cold Storage Co. Ltd. St. Catharines.	4 " ..	15	The Wm. Davies Co., Ltd., Toronto.	.....	304
" 12	Lawn Fertilizer...	45043	J. R. Black, St. Catharines.	5 " ..	20	The W. A. Freeman, Ltd., Hamilton.	No Registration No. on the Bags.	(157)
" 12	Phosphate and Potash.	45044	Clayton Field, Niagara on the Lake.	4 " ..	15	Buffalo Fertilizer Co., Buffalo.	.....	51
" 12	Crockers wheat and Corn Fertilizer..	45045	C. E. Fisher & Sons Queenstown.	4 " ..	15	Am. Agr. Chem. Co., Buffalo.	.....	195
" 13	Celery and Potato Special.	45046	J. F. Galbraith, Stoney Creek.	4 " ..	15	Buffalo Fertilizer Co., Buffalo.	.....	57
" 13	Berry Harab Animal Fertilizer.	45047	Jno. G. White, Winona.	4 " ..	15	The Harris Abattoir Co., Ltd., Toronto.	.....	289

SESSIONAL PAPER No. 14

—BULLETIN No. 213.

Analysis of Sample.	RESULTS OF ANALYSIS.										Remarks and Opinion of the Chief Analyst.
	Nitrogen, p.c.		Phosphoric Acid, p.c.						Potash.	Moisture.	
	Total, including that of nitric acid or ammonia if present.	Total calculated as ammonia.	Soluble in Water.	Reverted or Citrate Soluble.			Total.	Total available.			
				Insoluble.	Total.	Total available.					
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	No. of Sample.	

JAS. HOGAN, INSPECTOR.

As guaranteed ....	2.06	2.50	6	2	1	9	8	1.5	.....	44292	Up to assumed guarantee
As found.....	1.93	2.34	7.17	1.71	2.27	11.15	8.88	2.43	.....	.....	
As guaranteed ....	1.65	2	6	2	1	9	8	10	.....	44293	
As found.....	1.52	1.90	6.98	1.42	1.50	9.90	8.40	9.67	.....	.....	" "
As guaranteed ....	1.65	2	6	2	1	9	8	10	.....	44294	
As found.....	3.54	4.30	8.10	3.70	0.60	12.40	11.80	7.76	.....	.....	
As guaranteed ....	1.65	2	5.5	3.5	0.25	9.25	9	6	8	44295	Apparently not registered.
As found.....	2.71	3.28	3.25	5.85	1.85	10.95	9.10	9.63	.....	.....	
As guaranteed ....	2.47	3	5	3	0.25	8.25	8	5	8	44296	
As found.....	3.08	3.74	3.00	5.25	3.05	11.30	8.25	7.30	.....	.....	" "
As guaranteed ....	2.89	3.5	5	3	0.25	8.25	8	3	8	44297	
As found.....	3.09	3.75	0.90	5.65	4.25	10.80	6.55	3.74	.....	.....	
As guaranteed ....	2.47	3	5.5	3.5	0.25	9.25	9	4	8	44298	" "
As found.....	2.71	3.30	7.12	0.48	1.60	9.20	7.60	7.26	.....	.....	

H. J. DAGER, INSPECTOR.

As guaranteed ....	1.65	2	6	2	1	9	8	10	.....	45037	Up to guarantee.
As found.....	1.51	1.84	6.77	2.78	0.70	10.25	9.55	11.5	.....	.....	
As guaranteed ....	2.06	2.5	6	2	1	9	8	1.5	.....	45038	
As found.....	1.23	1.50	4.32	1.78	1.12	7.22	6.10	5.00	.....	.....	Below guarantee in phosphoric acid.
As guaranteed ....	0.80	1	6	2	1	9	8	5	.....	45039	
As found.....	0.91	1.10	4.52	3.48	1.00	9.00	8.00	5.38	.....	.....	
As guaranteed ....	1.60	2	6	2	1	9	8	10	.....	45040	Below guarantee in phosphoric acid.
As found.....	1.85	2.24	5.20	.....	2.20	7.28	5.08	10.42	.....	.....	
As guaranteed ....	2.06	2.5	6	2	1	9	8	1.5	.....	45041	
As found.....	1.96	2.38	6.00	2.35	2.00	10.35	8.35	2.06	.....	.....	Up to guarantee.
As guaranteed ....	6.59	8	.....	.....	.....	13	.....	.....	.....	45042	
As found.....	6.86	8.33	.....	.....	.....	14.25	.....	.....	.....	.....	
As guaranteed ....	2.47	3	5.5	3.5	0.25	9.25	9	4	8	45043	Up to assumed guarantee.
As found.....	2.19	2.66	7.82	3.08	0.67	11.57	10.90	4.40	.....	.....	
As guaranteed ....	.....	.....	10	2	1	13	12	5	.....	45044	
As found.....	.....	.....	7.12	4.53	2.00	13.65	11.65	4.33	.....	.....	Slightly below guarantee in potash.
As guaranteed ....	2.06	2.5	6	2	1	9	8	1.5	.....	45045	
As found.....	1.77	2.14	6.07	3.51	1.47	11.05	9.58	2.37	.....	.....	
As guaranteed ....	1.6	2	6	2	1	9	8	10	.....	45046	Below guarantee in potash.
As found.....	1.54	1.75	5.87	2.61	1.27	9.75	8.48	5.60	.....	.....	
As guaranteed ....	2.5	3	.....	.....	.....	10	7	6.5	.....	45047	
As found.....	2.74	3.33	.....	.....	2.37	10.10	7.73	5.25	.....	.....	"

2 GEORGE V., A. 1912

## FERTILIZERS AS SOLD.

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report.	Registered Number.
1910.								
DISTRICT OF TORONTO—								
May 13	Sure growth manure.	45048	Manufacturer.....	4 lbs.	15	The W. A. Freeman Co., Ltd., Hamilton.	.....	144
" 17	Early Vegetable Manure.	45049	Manufacturer.....	4 "	15	The Wm. Davies Co., Ltd., Toronto.	.....	247
" 17	Bradleys Complete Manure for Potatoes and Vegetables.	45050	Jno. Cunningham, Cooksville.	4 "	15	Am. Agr. Chem. Co., Buffalo.	.....	191
" 17	Potato manure.	45051	J. E. Bell, Cooksville.	4 "	15	The W. A. Freeman Co., Ltd., Hamilton.	No Registration No. on Bags.	(145)
" 18	Pure Animal Fertilizer, Brand H.	45052	J. A. Simmers, 147, 151, King, St. E. Toronto.	5 "	25	Wm. Harris & Co., Danforth Ave., Toronto.	.....	285
" 23	Potato 'Harab' Animal Fertilizer.	45053	J. N. McGregor, Oakville.	5 "	15	The Harris Abattoir Co., Ltd., Toronto.	.....	286
" 23	High Grade Potash Compound.	45054	R. A. Balty, Oakville.	5 "	15	The Am. Agr. Chem. Co., New York.	No Registration No. on package.	(182)
" 25	Crockers New York Special Phosphate.	45055	Titterington, Bros., St. Catharines.	5 "	15	"	.....	192
" 25	Davies Early Vegetable Manure.	45056	The St. Catharines Cold Storage Co., St. Catharines.	5 "	15	Wm. Davies Co., Ltd., Toronto.	.....	247
DISTRICT OF LONDON—								
May 4	Pure Animal Fertilizer Brand H.	42301	Jno. Byers, Stratford.	3 jars.	15	W. Harris Co., Toronto.	No Registration No. on package.	(285)
" 6	Sure Growth Manure.	42311	Richard G. Seldon, Exeter.	3 "	15	Freeman Fertilizer Co., Hamilton.	.....	144
" 7	Bone Meal.....	42314	D. W. Newcombe, St. Thomas.	3 "	15	W. A. Freeman Co., Hamilton.	.....	146
" 7	Fertilizer.....	42315	" " "	3 "	15	" " "	No Registration No. or no Analysis on Bag.	?
" 13	Homestead Bone Black.	42316	Thos. Benstead, Strathroy.	3 "	15	Am. Agr. Chem. Co., Detroit.	.....	(213)
" 13	Homestead High Grade Garden and Vegetable Fertilizer.	42317	" " "	3 "	15	" " "	.....	(210)
" 3	Rex Brand.....	42599	O. H. Killer, Stratford.	3 "	15	Rex Manfg. Co., Weston, Ont.	.....	12

SESSIONAL PAPER No. 14

—BULLETIN No. 213.

Analysis of Sample.	RESULTS OF ANALYSIS.										Remarks and opinion of the Chief Analyst.
	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.			Total available.	Potash.		Moisture.	
				Insoluble.	Total.	Total available.					
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
H. J. DAGER, INSPECTOR—Concluded.											
As guaranteed....	2.89	3.5	5	3	0.25	8.25	8	3	8	45048	Up to guarantee
As found. ....	3.32	4.03	.....	.....	2.37	11.45	9.08	6.60	.....	.....	
As guaranteed....	4.12	5	.....	.....	.....	11	9	5	.....	45049	"
As found. ....	4.03	4.90	.....	.....	0.92	13.00	12.08	4.84	.....	.....	
As guaranteed....	3.29	4	6	2	1	9	8	7	.....	45050	"
As found. ....	2.91	3.54	6.92	2.18	0.92	10.02	9.10	7.30	.....	.....	
As guaranteed....	2.47	3	5	3	0.25	8.25	8	5	8	45051	Up to assumed guarantee.
As found. ....	3.20	3.88	3.62	5.33	1.82	10.77	8.95	6.02	.....	.....	
As guaranteed....	7.15	8.69	0.67	3.9	2.74	7.31	4.57	.....	10.91	45052	Below guarantee in nitrogen.
As found. ....	6.30	7.60	0.70	4.28	2.32	7.30	4.98	.....	.....	.....	
As guaranteed....	4	4.9	.....	.....	.....	11	8	8	.....	45053	Up to guarantee.
As found. ....	5.72	6.95	.....	.....	.....	11.00	.....	8.28	.....	.....	
As guaranteed....	1.65	2	6	2	1	9	8	10	.....	45054	Up to assumed guarantee.
As found. ....	1.96	2.38	6.90	2.45	1.42	10.77	9.35	11.76	.....	.....	
As guaranteed....	.....	.....	8	2	1	11	10	8	.....	45055	Up to guarantee.
As found. ....	.....	.....	8.00	4.68	1.12	13.80	12.68	7.91	.....	.....	
As guaranteed....	4.12	5	.....	.....	.....	11	9	5	.....	45056	Up to guarantee.
As found. ....	3.68	4.47	.....	.....	4.00	14.45	10.45	4.48	.....	.....	
J. TALBOT, ACTING INSPECTOR.											
As guaranteed....	7.15	8.69	0.67	3.9	2.74	7.31	4.57	.....	10.91	42301	Up to assumed guarantee
As found. ....	7.54	9.16	0.75	6.40	1.65	8.80	7.15	.....	.....	.....	
As guaranteed....	2.89	3.5	5	3	0.25	8.25	8	3	8	42311	Up to guarantee.
As found. ....	3.02	3.67	4.72	5.78	1.75	12.25	10.50	5.77	.....	.....	
As guaranteed....	2.47	3	.....	20	1	21	20	.....	9	42314	Essentially up to guarantee.
As found. ....	3.92	4.75	.....	14.75	6.25	21.00	14.75	.....	.....	.....	
As guaranteed....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42315	Apparently not registered.
As found. ....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
As guaranteed....	2.06	2.5	6	2	1	9	8	1.5	.....	42316	Up to assumed guarantee
As found. ....	2.24	2.72	.....	8.20	0.70	9.90	8.20	1.93	.....	.....	
As guaranteed....	1.65	2	6	2	1	10	8	5	.....	42317	" "
As found. ....	1.61	1.95	.....	9.35	0.65	10.00	9.35	4.96	.....	.....	
As guaranteed....	1.97	2.4	3	1	1	5	4	4	.....	42599	Up to guarantee.
As found. ....	3.63	4.40	4.78	2.80	1.12	8.70	7.58	4.77	.....	.....	



2 GEORGE V., A. 1912  
FERTILIZERS AS SOLD

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report.	Registered Number.
1910.								

## DISTRICT OF WINDSOR—

April 20	Bone and Potash..	42567	Struthers & Church, Galt.	3 jars.	10	Buffalo Fertilizer Co.	Brand on Bag No. 4352.	(51)
" 20	Celery and Potato Special.	42568	" " "	3 " "	10	" " "	" " "	(57)
" 21	Fertilizer.....	42575	Geo. Kirk, Woodstock.	3 " "	10	W. A. Freeman Co., Hamilton.	No. Registration on Bags.	(157)
" 21	" .....	42576	Hastings & Son, Woodstock.	3 " "	20	" " "	" " "	145
" 22	Sure Growth.....	42579	A. H. Hamilton, London South.	3 " "	20	" " "	" " "	144
" 22	Celery and Vegetable Manure.	42581	" " "	3 " "	20	" " "	" " "	148

## DISTRICT OF VANCOUVER—

Mai	7 Fertilizer 'B' ....	44860	The Brackman, Ker Milling Co., Vancouver.	6 lbs.	15	Victoria Chem. Co. Ltd., Victoria, B.C.	Sample was taken from bin in warehouse of vendor.	(74)
"	7 Bone Meal .....	44861	Manufacturers, Vancouver, B.C.	"	15	The Brackman, Ker Milling Co., Victoria, B.C.	"	?
"	7 Nitrate of Soda...	44862	The Brackman, Ker Milling Co., Vancouver, B.C.	"	20	The Victoria Chem. Co., Ltd., Victoria, B.C.	"	(27)
"	7 Muriate of Potash	44863	"	"	20	"	"	(78)
"	7 Sulphate of Potash	44864	"	"	15	"	"	(79)
"	7 Fertilizer 'C' ....	44865	Wm. Rennie & Co., Vancouver, B.C.	"	35	"	"	(75)
"	7 Rennies Plant Food.	44866	"	3 pkgs	75	W. Rennie, Toronto	"	(276)
"	7 Fertilizer 'A' ...	44867	Royal Nurseries & Floral Co., Vancouver.	6 lbs.	25	The Brackman, Ker Milling Co., Vancouver, B.C.	"	?
"	7 Bone Meal. ....	44868	"	"	25	"	"	?
"	7 " .....	44869	M. J. Henry, Vancouver, B.C.	"	25	The Chas. H. Lilly Co., Seattle, Wash.	"	(297)

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—BULLETIN No. 213.

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 Ci-	Insoluble.	Total.	Total available.	Potash.	Moisture.		
				trate Soluble.							
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			

JNO. TALBOT, INSPECTOR.

As guaranteed			10	2	1	13	12	5		42567	Doubtful identification.
As found						11.20		3.34			
As guaranteed	1.64	2	6	2	1	9	8	10		42568	" "
As found	1.61	1.95				10.70		6.85			
As guaranteed		3				9		4		42575	" "
As found	1.44	1.75				12.65		3.47			
As guaranteed	2.47	3	5	3	0.25	8.25	8	3	8	42576	Up to guarantee.
As found	2.82	3.42	4.10	5.60	1.95	11.65	9.70	6.95			
As guaranteed	2.89	3.5	5	3	0.25	8.25	8	3	8	42579	
As found	2.90	3.52	5.35	5.33	1.02	11.70	10.68	4.51			
As guaranteed	4.12	5	5.5	3.5	0.25					42581	
As found	4.21	5.12	4.50	5.78	1.87	12.15	10.28				

D. O'SULLIVAN, ACTING INSPECTOR.

As guaranteed	3.5		10					11		44860	Doubtful identification.
As found	2.06	2.53	12.40				14.40		7.01		
As guaranteed										44861	Apparently not registered.
As found											
As guaranteed	15									44862	Up to assumed guarantee.
As found	15.03	18.32									
As guaranteed								50		44863	Samples mixed by inspector.
As found								49.53			
As guaranteed								50		44864	Up to assumed guarantee.
As found								49.48			
As guaranteed			12.5					11		44865	Doubtful identification.
As found			14.29			16.20		4.59			
As guaranteed		2.5	8					2		44866	" "
As found			11.80			12.30		5.37			
As guaranteed										44867	Apparently not registered.
As found											
As guaranteed										44868	" "
As found											
As guaranteed	3			17	5	22				44869	Up to assumed guarantee.
As found	3.75	4.55		11.88	12.32	24.20	11.88				

2 GEORGE V., A. 1912

## FERTILIZERS AS SOLD

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report.	Registered Number.
1910								

## DISTRICT OF VICTORIA—

April 27	'A' Grade . . .	37926	G. Bazett, Dun- can, B.C.	6 lbs.	60	Victoria Chem. Co. Victoria, B.C.	Tags torn, could not see if registered.	(73)
" 27	" . . . . .	37927	"	"	60	"	"	(73)
" 30	Fertilizer . . . . .	37928	Jay & Co., Vic- toria, B.C.	"	25	Unknown . . . . .	Imported, not regis'trd	?
" 30	Whale Guano . . . .	37929	Brackman, Ker, Victoria, B.C.	3 bots.	25	Pacific Whaling Co., Victoria, B.C.	.....	?
" 30	'C' Grade . . . . .	37930	Manufacturers . . .	"	25	Victoria Chem. Co.	.....	(75)
" 30	Superphosphate of Lime.	37931	"	"	25	"	.....	(80)
" 30	Muriate of Potash	37932	"	"	25	"	.....	(79)
" 30	Nitrate of Soda . . .	37933	"	"	25	"	.....	(77)
" 30	Sulphate of Potash	37934	"	"	25	"	.....	(78)
" 30	Kainit . . . . .	37935	"	"	25	"	.....	?



## APPENDIX I.

## BULLETIN 214—MAPLE SYRUP.

OTTAWA, August 12, 1910.

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

SIR,—I have the honour to present herewith a report upon 138 samples of Maple Syrup, collected during April and May of this year. Four samples were broken in transit. Of the remainder, 117 are found to meet the present standards for Maple Syrup, and are therefore declared genuine; although the close approximation to limit numbers (2 per cent lead precipitate, 0·5 per cent ash, and 0·4 per cent malic acid) would seem to indicate manipulation in many cases. Our experience acquired in the examination of many hundreds of samples goes to show that undoubtedly genuine Maple Syrup yields at least from 2·5 to 3·0 per cent lead acetate precipitate.

The present inspection shows 12 per cent adulteration. This is an improvement upon the former condition of the article, as evidenced by the subjoined statement, synopsis of Maple Syrup inspection since 1905.

## MAPLE SYRUP.

Date of Inspection.	Bulletin.	Sold as Mixture.	Genuine.	Doubtful.	Adulter- ated.	Total.	Percent- age Genuine.
March, 1905.....	102	0	17	4	76	97	18
May, 1905.....	102	0	44	2	25	75	59
March, 1906.....	120	8	22	2	53	85	26
May, 1906.....	120	9	88	17	57	171	52
" 1907.....	141	37	187	2	20	244	77
February, 1908.....	155	6	61	4	13	84	73
May, 1908.....	157	3	62	0	6	71	87
" 1910.....	213	.....	117	4	17	138	85

Since 1905, the total number of Maple Syrup samples reported in Bulletin form is 965. Besides this number, many samples have been examined under Sec. 41 of the Adulteration Act (R. S. 1906, Chap. 133) and for research purposes. The experience thus gained, enables me, with great confidence, to recommend for legalization under Sec. 26, of the Act, the following limiting numbers for Maple Syrup :

Lead acetate precipitate 2·0 per cent ; total ash 0·5 per cent ; (both calculated upon the dry sugar content). Malic acid value 0·4 per cent.



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It is certain that although many genuine samples of Syrup are of such a character as to admit of their dilution with Cane Sugar Syrup, and still fall within such limits as to pass for genuine, the great majority of fraudulent samples will be clearly indicated, while genuine Maple Syrup is quite safe from being adjudged as other than it is.

I beg to recommend the publication of this report as Bulletin 214.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,

*Chief Analyst.*

BULLETIN No. 214—MAPLE SYRUP.

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.			Lead Sub-acetate precipitate.	Total Ash.	Percentage on dry substance.			Malic acid value.

DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.													
1910.								p. c.	p. c.	p. c.			
April 19	Maple Syrup..	41956	W. J. Hopgood & Son, 1 qt. Halifax, N.S.	40	40	Geo. A. Smith, Springhill, N.S.	.....	3.38	.....	.....	41956	Genuine.	
" 19	"	41957	J. L. Archibald & Son, 1 " " Halifax, N.S.	40	40	Imperial Syrup Co., Montreal.	Snow Shoe brand. Labelled Pure.	2.43	.....	.....	41957	"	
" 19	"	41958	Larder Habley & Co., 1 " " Halifax, N.S.	40	40	A. W. Westover, Sutton Junction, P.Q.	Labelled Pure	3.53	.....	.....	41958	"	
" 19	"	41959	Dillon Bros., Halifax, 1 " " N.S.	40	40	Maple Tree Producers Asso'cn, Waterloo, P.Q.	.....	3.44	.....	.....	41959	"	
" 20	"	41960	E. W. Crease & Son, 1 " " Halifax, N.S.	35	35	J. McLellan, Halifax, N.S.	Sold as Cumberland Syrup.	5.00	.....	.....	41960	"	
May 3	"	41961	Rooney & Lovett, Halifax, N.S.	40	40	Sugars & Canners Ltd., Montreal.	'Silver Leaf' brand. Labelled Pure.	0.49	0.30	0.09	41961	Adulterated.	
" 3	"	41962	T. F. Courtney & Co., 1 " " Halifax, N.S.	35	35	Unknown	Sold as Cumberland Syrup.	4.24	.....	.....	41962	Genuine.	
" 3	"	41963	W. E. Crowe & Co., Halifax, N.S.	40	40	Maple Tree Producers Asso'cn, Waterloo, P.Q.	Pride of Canada brand. Sold as Pure.	2.77	.....	.....	41963	"	
" 5	"	41964	S. S. Thomson, Dartmouth, N.S.	35	35	Sugars & Canners Ltée, Montreal.	'Silver Leaf' brand. Sold as Pure.	0.46	0.13	0.06	41964	Adulterated.	
" 5	"	41965	G. A. Orman, Dartmouth, N.S.	40	40	Maple Tree Producers Asso'cn, Montreal.	Pride of Canada	3.41	.....	.....	41965	Genuine.	
DISTRICT OF PRINCE EDWARD ISLAND—THEO. MOORE, INSPECTOR.													
19 avril	Maple Syrup..	38686	Coffin & Co. Charlotte-town.	60	60	J. J. McKinnon, Charlottetown.	.....	2.98	.....	.....	38686	Genuine.	

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"	19	"	38687	Mrs. W. F. Carter, Charl- lottetown.	3 "	60	E. D. McKenzie, Spring- hill, N.-E.	.....	2.89	.....	38687	"
"	21	"	38688	A. Downess, Kensington.	3 "	50	F. T. Thomas, Québec.	.....	2.70	.....	38688	"
"	22	"	38689	McGowan & Wright, Sum- merside.	3 "	50	Unknown.	.....	2.98	.....	38689	"
"	22	"	38690	Sinclair & Stewart, Sum- merside.	3 "	60	Dearborn & Co., St. John, N.-B.	.....	0.99	0.30	38690	Adulterated.
"	22	"	38691	Waugh & Steeves, Sum- merside.	3 "	60	Sugars & Canniers Ltée, Montreal.	.....	0.67	0.40	38691	"
"	22	"	38692	J. Bowden, Georgetown.	3 "	50	J. Dixon, Québec.	.....	0.89	0.41	38692	"
"	22	"	38693	F. Peterson, Montague.	3 "	60	J. McPherson, Halifax.	.....	2.58	.....	38693	Genuine.
"	22	"	38694	F. Pardon, Charlotte- town.	3 "	60	Sugars & Canniers Ltée, Montreal.	.....	2.37	.....	38694	"
"	22	"	38695	J. McKinnon, Charlotte- town.	3 "	50	Robert Mitchell, Québec.	.....	3.13	.....	38695	"

## DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.

April	23	Maple Syrup..	39689	James Collins, St. John, N.-B.	2 bots.	70	A. R. & R. P. Gorham, Gorham's Bluff, N.-B.	Labeled Pure Maple Honey.	3.35	.....	39689	Genuine.
"	23	"	39690	J. E. Quinn, St. John, N.-B.	2 "	70	Wm. Shampor, Kingston, N.-B.	Labeled Pure Maple Syrup.	2.61	.....	39690	"
"	25	"	39691	R. H. Cocher, St. John, N.-B.	2 "	70	H. C. Cochran, Bloom- field Station, N.-B.	Guaranteed Pure.	4.09	.....	39691	"
May	5	"	45227	H. C. Jowett, Frederic- ton, N.-B.	2 "	60	J. H. Haines, Macin- quac, N.-B.	Lb. Pure Maple Honey	3.07	.....	45227	"
"	18	"	45228	D. A. Vail, Sussex, N.-B.	1 qt.	40	D. F. Archibald, Athol, N.-E.	.....	3.52	.....	45228	"
"	18	"	45229	Wills Eveleigh, Ltd., Sussex, N.-B.	1 "	35	T. Whit-Colpitts, Forest Glen, N.-B.	.....	3.75	.....	45229	"
"	19	"	45230	2 Barkers, Ltd., Mon- ton, N.-B.	1 "	38	Unknown.	.....	3.50	.....	45230	"
"	19	"	45231	D. E. Richard, Mon- ton, N.-B.	2 bots.	40	"	.....	4.12	.....	45231	"
"	19	"	45232	Archie A. McLeod, 1 qt. Moncton, N.-B.	1 qt.	50	Mme M. Steeves, Lutes Mountain, N.-B.	.....	2.00	.....	45232	"
"	19	"	45233	J. W. Steeves, Mon- ton, N.-B.	3 bots.	75	Goddard Bros., Elgin, N.-B.	.....	2.62	.....	45233	"



## SESSIONAL PAPER No. 14

"	21	"	40461	Royer Fissette, Sherbrooke.	1 " "	25	Unknown.	.....	3.29	.....	40461	"
"	26	"	40462	Magasin Co-opératif, Thetford Mines.	1 " "	30	"	.....	3.50	.....	40462	"
"	27	"	40463	A. L. Dupuis, Coaticook, P.Q.	1 " "	25	"	.....	1.40	0.49	40463	Adulterated.
"	27	"	40464	S. W. Mallock, Coaticook, P.Q.	1 " "	25	F. Birch, Hatley, P.Q.	.....	2.74	.....	40464	Genuine.
May	2	"	40465	Eastern Tp. M. S. and Sugar Exchange, Sutton, P.Q.	1 " "	25	"	.....	3.57	.....	40465	"
"	2	"	40466	E. B. Greeley, Sutton, P.Q.	1 " "	25	A. E. Greeley, Sutton, P.Q.	.....	3.41	.....	40466	"
"	3	"	40467	The Maple Tree Producers' Assoc., Ltd., Waterloo, P.Q.	Pro-3 bots.	45	"	Pride of Canada	3.41	.....	40467	"
"	3	"	40468	"	1 qt.	30	"	Pride of Quebec.	2.71	.....	40468	"
"	3	"	40469	Nelson, Mitchell & Co., Granby, P.Q.	1 tin.	55	A. L. Coburn, Granby, P.Q.	Warranted pure.	2.71	.....	40469	"

## DISTRICT OF MONTREAL—J. C. ROULEAU, ACTING INSPECTOR.

April	19	Maple Syrup.	1137	J. W. Léger, Vaudreuil.	1 qt.	30	D. Marcot, Ile Perrault.	.....	3.81	.....	1137	Genuine.
"	19	"	1138	Chevrier & frères, Ri-gaud.	1 " "	25	P. Villeneuve, St. Ré-dempteur.	.....	3.26	.....	1138	"
"	20	"	1139	J. B. Dubeau, St. Ré-dempteur.	1 " "	40	Unknown	.....	4.15	.....	1139	"
"	20	"	1140	J. R. Ménard, St. Justine.	1 gall.	90	O. Bérard, St. Justine.	.....	2.89	.....	1140	"
"	21	"	1141	J. G. Léonard, Beaulieu.	1 qt.	30	Théodore Faubert, Wood-lan.	.....	3.26	.....	1141	"
"	27	"	1142	Mde. H. Deslauriers, La-chine.	1 " "	25	Mathew, Fortin & Monette, Montreal.	After purchase vendor said it was compound	0.26	0.14	1142	Adulterated. See Inspector's note.
"	27	"	1143	W. J. Falle, Westmount.	1 " "	30	Unknown.	.....	3.35	.....	1143	Genuine.
"	28	"	1144	F. H. McKough, Hemmingsford.	1 gall.	80	H. Bourdeau, Hemmingsford.	.....	3.57	.....	1144	"
May	6	"	1145	King Edward Grocery, Villeneuve, Montreal.	80 1 qt.	30	H. Perrault, St. Alexis.	.....	2.40	.....	1145	"
"	6	"	1146	S. Robinson, 77 Marie Anne, Montreal.	1 " "	28	Unknown.	.....	0.44	0.15	1146	Adulterated.



BULLETIN No. 214—MAPLE SYRUP.

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.			Lead Sub-precipitate	Total Ash.	Percentage on dry Substance.	Malic acid value.		

DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.

1910.												
April 26	Maple Syrup.	42983	W. West, Almonte.	1 qt.	25	Thos. James, St., Almonte					42983	Sample broken.
" 22	"	42984	Stewart Bros. Co., Renfrew.	1 "	25	Mrs. Astleford, Bellamy's		3.63			42984	Genuine.
" 22	"	42985	Michael Vice, Renfrew.	1 "	30	G. W. Buzzell, Abbottsford, P.Q.	Sample from tin labelled Sirop d'Erabl e. Garanti pur.	2.40			42985	"
" 27	"	42986	E. Gougeon, Market Square, Ottawa.	1 "	30	J. B. Dubau, St. R. de l'emp-teur, P.Q.		3.78			42986	"
" 27	"	42987	Wall & Co., Market Square, Ottawa.	1 "	30	J. Moynour, Ltd., Ottawa	Sample from barrel labelled Pure Maple Syrup.	2.80			42987	"
" 27	"	42988	F. W. Forde, Bank St., Ottawa.	1 "	30	Unknown.	Sample from tin labelled Pure Maple Syrup Warranted to be made from Maple Sap only.	2.18			42988	"
" 28	"	42989	F. A. Scott & Son, Wellington St., Ottawa	1 "	30	Keddy & Kenny, Hemmington, P.Q.					42989	Samples lost through breakage
" 28	"	42990	R. McGregor, Sparks St., Ottawa.	1 "	35	Anstiss-Langdon, Ltd., Ottawa.	Sample labelled Guaranteed Pure Maple syrup.	2.83			42990	Genuine.
" 28	"	42991	C. B. McLean, Bank St., Ottawa.	1 "	35	A. W. Westover, Sutton Junction.	Sample from tin labelled Guaranteed Pure.	2.80			42991	"



## BULLETIN No. 214—MAPLE SYRUP.

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.			Lead Sub-precipitate	Total Ash.	Malic acid value.			
													Perc-nage on dry Substance.
DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR—Concluded.													
1910.								p. c.	p. c.	p. c.			
May 21	Maple Syrup..	45009	T. Dudgeon, 406 Queen St., West Toronto.	3 pts..	45	Canada. Preserving Co., Hamilton.	Sold as Genuine Maple Syrup.	0.44	0.10	0.10	45009	Adulterated.	
" 21	" ..	45010	M. McAuliff, 212 Queen St., West Toronto.	3 " ..	35	Sugars and Cannery, Ltd., Montreal.	'Silver Leaf.' brand, guaranteed absolutely pure. Sold as Pure Maple Syrup.	0.79	0.20	0.05	45010	"	
DISTRICT OF LONDON—J. TALBOT, ACTING INSPECTOR.													
May	5 Maple Syrup..	42302	A. G. Ault, Seaforth....	3 bots.	15	Unknown .....	.....	0.18	0.06	0.08	42302	Adulterated.	
" 5	" ..	42308	Sturdy & Co., Goderich..	1 qt..	35	McCormick Mfg. Co., London.	'Log Cabin' brand, guaranteed absolutely pure.	2.70	.....	....	42308	Genuine.	
" 6	" ..	42312	Jones & Hay, Exeter....	1 " ..	25	Unknown .....	.....	5.78	.....	....	42312	"	
" 3	" ..	42582	W.R. Butcher, St. Mary's	1 " ..	40	Garrett, Stafford & Co., Sutton, P.Q.	Guaranteed pure. ....	3.32	.....	.....	42582	"	
" 3	" ..	42584	Pickard & Fleming, St. Mary's.	1 " ..	45	Alex. Mountain, Avonbank, Ont.	.....	3.41	.....	.....	42584	"	
" 3	" ..	42587	A. Beattie & Co., St. Mary's.	1 " ..	30	Eastern Townships M. S. and S. Exchange.	.....	2.71	.....	.....	42587	"	
" 4	" ..	42591	Walsh Bros., Stratford..	1 " ..	35	Maple Tree Producers Association, Waterloo, P.Q.	Pride of Canada, guaranteed pure.	2.13	.....	.....	42591	"	
" 4	" ..	42593	A. Beattie & Co., Stratford.	1 " ..	40	" " "	Pride of Canada .....	2.37	....	.....	42593	"	

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## DISTRICT OF WINDSOR—J. TALBOT, INSPECTOR.

April 18	Maple Syrup	42545	Ilood Bros., Guelph.....	3 bots.	40	Unknown.....			4 61	42545	Genuine.
" 18	"	42547	Penson Bros., Guelph.....	3 " "	35	H. E. Reynolds, South Rockton, P.Q.			2 15	42547	"
" 18	"	42548	E. Englehart, Guelph.....	3 " "	35	Maple Tree Producers' As- sociation, Waterloo, P.Q.			2 37	42548	"
" 18	"	42551	Johnston & Co., Guelph.....	3 " "	40	Unknown.....			3 23	42551	"
" 19	"	42554	John Waldschmidt, Ber- lin.	3 " "	25	W. C. Smith, Athens, Ont.			4 10	42554	"
" 19	"	42557	H. J. Ahrens, Berlin.....	3 " "	35	M. J. Wilson & Son, Smith's Falls.			3 07	42557	"
" 19	"	42558	Wm. Metcalfe & Co., Ber- lin.	3 " "	35	G. B. Hall, Barnston, P.Q.	Guaranteed by manu- facturer to be Pure Maple Syrup.		2 86	42558	"
" 22	"	42577	Jas. Fortner, London.....	3 " "	35	Frank Moore, London, Ont.			3 16	42577	"
" 22	"	42578	Wm. W. Burdick, London.....	3 " "	25	Unknown.			3 07	42578	"

## DISTRICT OF MANTOBA—A. C. LARIVIERE, INSPECTOR.

April 25	Maple Syrup	43456	James Grant, Notre Dame Ave., Winnipeg.	1 qt.	40	Maple Tree Producers As- sociation, Waterloo, P.Q.	Pride of Quebec.....		2 52	43456	Genuine.
" 25	"	43457	Laure Bros., Notre Dame Ave., Winnipeg.	1 " "	40	Imperial Syrup Co., Mon- tréal.	'Snowshoe', brand Pure Maple Syrup.		2 21	43457	"
" 25	"	43458	Dunn & Dodds, Notre Dame Ave., Winnipeg.	1 " "	45	" " "	'Snowshoe', brand in bottles.		2 10	43458	"
" 25	"	43459	Horne & Thomson, Port- age Ave., Winnipeg.	1 " "	40	Dingle & Stewart, Win- nipeg.	'Silver Leaf' brand, pure Maple Syrup Guaranteed pure by Sugars & Cannery Ltd., Montreal		2 46	43459	"
" 25	"	43460	H. E. Weldon & Co., Port- age Ave., Winnipeg.	1 " "	45	Maple Tree Producers As- sociation, Waterloo, P.Q.	'Pride of Canada,'		3 53	43460	"
" 26	"	43461	Buchanan & Hardy, (Osborne St., Winnipeg.	1 " "	45	O. E. Sherwood, Foster, P.Q.			2 27	43461	"
" 26	"	43462	J. Paterson, Market St., Winnipeg.	1 " "	39	The Guaranteed Pure Maple Syrup Co., Sut- ton, P.Q.			3 35	43462	"
" 27	"	43463	W. J. Young, Brandon..	1 " "	40	Laying, Smith's Falls.....			2 18	43463	"
" 27	"	43464	Mather & Lynch, Bran- don.	1 " "	40	Canada Maple Exchange Ltd., Montreal.	Small's 'Maple Leaf', brand.		2 46	43464	"
" 27	"	43465	The Hudson Bay Co., Fortage la Prairie.	1 " "	50	The Eastern Tp. Maple Syrup & S. Exchange, Sutton, P.Q.			2 86	43465	"





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## DISTRICT OF VANCOUVER—D. O'SULLIVAN, ACTING INSPECTOR.

May	5	Maple Syrup.	44837	Thayer & Co., Vancouver, B.C.	50	Edmund J. Berry, Quebec	1-42	0-50	0-37	44837	Adulterated.
"	5	"	44839	The A. & C. Grocery Co., Vancouver, B.C.	60	Maple Tree Producers Assoc., Montreal.	2-80	.....	.....	44839	Genuine.
"	5	"	44842	The London Grocery Co., Ltd., Vancouver, B.C.	50	Maple Tree Producers Assoc., Waterloo, P.Q.	3-35	.....	.....	44842	"
"	5	"	44845	T. F. McDowell, Vancouver, B.C.	50	T. N. Lynch, Granby, P.Q.	2-88	.....	.....	44845	"
"	5	"	44849	J. McTaggart, Vancouver, B.C.	70	F. N. Lynch, Granby, P.Q.	2-77	.....	.....	44849	"
"	6	"	44853	J. S. Foran, Vancouver, B.C.	50	D. H. McDougall, Martin-town, P.Q.	1-61	0-50	0-21	44853	Adulterated.
"	6	"	44856	" " " " " "	45	Jas. St. Jacques, St. Hermas, P.Q.	2-80	.....	.....	44856	Genuine.
"	8	"	44879	T. S. Annandale, New Westminster.	50	Sugars & Cannery, Ltd., Montreal.	2-00	.....	.....	44879	"
"	8	"	44883	Hampton Bros. ....	60	Eastern Townships M. S. and S. Exchange, Sutton, P.Q.	3-01	.....	.....	44883	"

## DISTRICT OF VICTORIA—J. F. POWER, ACTING INSPECTOR.

April	26	Maple Syrup.	37916	W. E. Morrison, Lady-smith, B.C.	50	Imperial Syrup Co., Montreal.	1-20	0-41	0-16	37916	Adulterated.
"	27	"	37917	Cowichan Merchants, Duncan's, B.C.	75	Maple Tree Producers Assoc., Waterloo, P.Q.	3-50	.....	.....	37917	Genuine.
May	2	"	37918	Windsor Grocery, Victoria, B.C.	50	F. J. Lynch, Granby, P.Q.	3-17	.....	.....	37918	"

APPENDIX J.

BULLELIN No. 215—MAPLE SUGAR.

OTTAWA, September, 2, 1910.

WM. HIMSWORTH, Esq.,  
Acting Deputy Minister of Inland Revenue.

SIR,—I beg to hand you a report upon maple sugar, collected throughout Canada in April and May of this year.

The report comprises one hundred and thirty-eight samples; but in addition the duplicates have been analysed in twenty-two instances, so that the total number of samples examined is one hundred and sixty (160). Examination of duplicates has been made when the sample, as taken by our Inspectors, consisted of separate cakes, instead of the division of a single cake into portions. It has sometimes occurred that, in the case of distinct cakes collected under the same inspectoral number, these cakes have given differing results on analysis. In the present instance, with a single exception, the analysis of the duplicate has corroborated the results of analysis of the original sample.

Results may be synoptically stated as follows:—

	Samples.
Genuine.....	102
Adulterated.....	22
Doubtful.....	14
Total.....	138

It thus appears that 74 per cent of the samples must be declared genuine, on the basis of our present standard for maple sugar, while 16 per cent are found to be adulterated.

The subjoined synopsis of published work on maple sugar since 1905, enables comparison to be made with former reports.

Date of Inspection.	Bulletin.	Sold as Mixture.	Genuine.	Doubtful.	Adulterated.	Total.	Percent-age. Genuine.
March, 1905.....	102	0	12	2	8	22	55
May, 1905.....	102	0	15	0	3	18	83
March, 1906.....	120	0	11	3	12	26	42
May, 1906.....	120	1	44	0	7	52	85
May, 1907.....	140	5	185	10	57	257	72
May, 1908.....	157	0	62	1	8	71	87
Sept., 1910.....	215	0	102	14	22	138	74
						584	

It will be seen that all the samples now reported were purchased as maple sugar, not as compounds; although in several instances the vendor declined, after sale, to guarantee the purity of the article. Indeed, in one case (No. 1154) the vendor said the article was a compound, although the results of analysis prove it to be genuine, as judged by our accepted standards for maple sugar.

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These standards require that the lead acetate precipitate shall not be less than 2 per cent of the weight of the dry sugar; that the ash shall not be less than one half of one per cent, and the malic acid value not less than 0.4 per cent (Hortvet's methods)

Samples are judged as 'doubtful' when the lead precipitate is between 2 per cent and 1.8 per cent; or reaching 2 per cent, when the ash falls below 0.5 per cent and the malic acid value below 0.4 per cent.

It will be seen that the average weight of the lead acetate precipitate as well as that of the ash, notably exceeds the standard numbers, and thus permits many samples to be reduced with sucrose from other sources than the maple, while still meeting the requirements of the standards. There can be little doubt that advantage has been taken of this fact by unscrupulous manufacturers, and that many compounded samples have escaped detection. Owing, however, to the fact that certain undoubtedly genuine maple sugars are found to give a low lead acetate number, and a low ash, it is not considered safe to recommend higher figures than those quoted, lest an honest product should be unfairly dealt with. This matter will receive careful consideration when readjustment of standards for sugar comes before the Advisory Board; and it may be found possible to raise it slightly.

I beg to recommend publication of this report as Bulletin 215.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,

*Chief Analyst.*



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## DISTRICT OF PRINCE EDWARD ISLAND—THEO. MOORE, INSPECTOR.

April 19	Maple Sugar..	38696	R. K. Brace, Charlotte- town.	32	T. Thomas, Quebec.....	4.88	.....	38696	Genuine.
" 19	"	38697	Mrs. W. F. Carter, Char- lottetown.	48	E. D. McKenzie, Spring- hill, N.E.	4.77	.....	38697	"
" 19	"	38698	Sanderson & Co., Char- lottetown.	40	Allan Rogerson, Gamble's Corner, P.E.I.	2.28	.....	38698	"
" 21	"	38699	A. Bowness, Kensington	32	F. T. Thomas, Quebec.....	2.77	.....	38699	"
" 22	"	38700	R. T. Holman Ltd., Sun- merside.	20	Woodman & McKee, Caticook, P.Q.	4.73	.....	38700	"
" 22	"	38701	Brace & McKay, Sun- merside.	30	A. E. Hurd, Averscliff, P.Q.	4.22	.....	38701	"
" 26	"	38702	Jas. Gaimor, Mount Stewart.	40	G. Gorong, St. John.....	3.93	.....	38702	"
" 28	"	38703	R. Nicholson, Charlotte- town.	30	J. A. Farquharson, Char- lottetown.	1.84	0.57	38703	Adulterated.
" 28	"	38704	J. McKinnon, Charlotte- town.	30	Robert Mitchell, Quebec.	*1.88	.....	38704	Genuine.
" 28	"	38705	Coffin & Co., Charlotte- town.	30	Sugars & Cannery, Ltd., Montreal.	3.51	0.38	38705	Adulterated.

## DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.

April 23	Maple Sugar..	39692	James Collins, St. John, N.B.	45	Goddard Bros., Elgin, N.B.	Vendor does not gua- rantee quality or puri- ty.	3.64	.....	39692	Genuine.
" 25	"	39693	W. A. Porter, St. John, N.B.	40	Hauford H. Geldart, Elgin N.B.	Guaranteed absolutely pure.	3.48	.....	39693	"
" 25	"	39694	Harry G. McBeath, St. John, N.B.	48	Slocum & Ferris, Elgin, N.B.	.....	3.63	.....	39694	"
May 5	"	45234	E. G. Hoben, Fredericton N.B.	50	Goddard Bros., Elgin, N.B.	Labelled Pure Maple Sugar.	2.88	.....	45234	"
" 5	"	45235	Halt Morrison & Co., Fredericton, N.B.	32	Alfred Brown & Sons, Bear Island, N.B.	Rock Maple Sugar.....	4.48	.....	45235	"
" 6	"	45236	C. H. Burt, Fredericton N.B.	50	W. Leigh Burt, Zealand Station, N.B.	Maple Cakes.....	4.75	.....	45236	"
" 10	"	45237	Frank Godren, Grand Falls, N.B.	50	Fred Conron, Drummond Parish, N.B.	.....	4.91	.....	45237	"
" 11	"	45238	Peter Lagacy, Grand Falls, N.B.	35	Joseph Caron, Irishtown, N.B.	.....	5.64	.....	45238	"
" 18	"	45239	Mills Eveleigh Ltd., Sussex, N.B.	40	T. Whit. Colpitts, Forest Glen, N.B.	.....	4.40	.....	45239	"
" 19	"	45240	J. N. Boudreau, Mon- cton, N.B.	35	Napoleon Geranier, Mar- bleton, N.B.	Vendor would not gua- rantee purity.	3.51	.....	45240	"

\* Duplicate.



## BULLETIN No. 215—MAPLE SUGAR.

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.			Percentage on dry substance.	Lead Sub-acetate precipitate.	Total Ash.	

## DISTRICT OF QUEBEC—E. BELAND, INSPECTOR.

1910.								p. c.	p. c.	p. c.	
April 19	Maple Sugar.	36578	E. Sauvageau, Champlain 4 $\frac{1}{2}$ lbs.	48		Gustave Sauvageau, Champlain.		2.33	0.93		36578 Genuine.
" 19	"	36579	J. A. Brunelle, Champlain 2 "	20		Denis Grandmond, Champlain.		6.33			36579 "
" 19	"	36580	L. L. Brunelle, Batiscan 4 "	40		J. A. Turcotte, Champlain.		4.77			36580 "
" 21	"	36581	E. Deguise, Ste-Genevieve 3 $\frac{1}{2}$ "	30		Unknown.		6.40			36581 "
" 21	"	36582	A. A. St-Arseneau, Ste-3 $\frac{1}{2}$ "	34		Xavier Thibeault, Ste-Genevieve.		4.51			36582 "
" 25	"	36583	J. W. Cloutier, St-Stanislas 3 "	30		Alfred Gauthier, St-Stanislas.		6.17			36583 "
" 25	"	36584	J. Deaudoin, St-Stanislas 4 "	40		Vendor.		5.68			36584 "
" 25	"	36585	F. Desureau, St-Stanislas 5 "	50		"		5.31			36585 "
" 25	"	36586	A. Lafontaine, St-Stanislas 4 "	40		"		3.71			36586 "
" 25	"	36587	Henric Trepanier, St-Stanislas 5 "	50		"		4.13			36587 "

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## DISTRICT OF ST. HYACINTHE—J. J. COSTIGAN, ACTING INSPECTOR.

April 23	Maple Sugar..	40448	G. Dupuis, St. John, P. Q.	2 cakes	27	A. Brodeur, St-Paul, P. Q.	.....	3 24	.....	40448	Genuine.
" 23	"	40449	" " " "	1 "	24	A. Menard, St-Paul, P. Q.	.....	3 33	.....	40449	"
" 20	"	40470	E. Goyette, Cowansville, P. Q.	2 lbs.	20	A. Johnson, Iron Hill.	.....	2 53	.....	40470	"
" 21	"	40471	L. H. Olivier, Sherbrooke	2 "	26	Unknown.	.....	3 66	.....	40471	"
" 25	"	40472	Ginn & Elliott, Richmond, P. Q.	1 cake	25	J. Ducloux, Richmond, P. Q.	.....	3 86	.....	40472	"
" 25	"	40473	H. P. Wales, Richmond, P. Q.	2 lbs.	16	Unknown.	.....	4 22	.....	46473	"
" 25	"	40474	MacRae Bros., Richmond, P. Q.	1 cake	23	Mrs. Lynn, Flodden, P. Q.	.....	4 64	.....	40474	"
" 26	"	40475	Magnan Co., operatif 2½ lbs. Thetford Mines		27	Unknown.	.....	6 00	.....	40475	"
" 27	"	40476	D. L. Dupuis, Coaticook, P. Q.	2 "	20	Eugene Inkle, Way's Mills	.....	3 06	.....	40476	"
May 2	"	40477	Eastern Tushys. M.S. & 2 S. Exchange, Sutton, P. Q.	"	20	Chester Wilson, East Hill P. Q.	.....	3 95	.....	40477	"

## DISTRICT OF MONTREAL—J. C. ROULEAU, ACTING INSPECTOR.

April 19	Maple Sugar..	1148	H. Montpetit, St. Anne de Bellevue.	2 lbs.	25	Unknown.	.....	2 02	0 55	0 28	1148	Doubtful.
" 19	"	1149	C. Decoste, Rigaud.	4 "	39	F. Sabourin, St. Redempteur.	.....	4 95	.....	.....	1149	Genuine.
" 20	"	1150	J. B. Dubeau, St. Redempteur.	6 "	60	Moise Vallée, St. Redempteur.	.....	3 73	..	.....	1150	"
" 20	"	1151	J. E. P. Deguire, St. Justine.	3½ "	33	Unknown.	.....	3 20	.....	.....	1151	"
" 20	"	1152	D. Mesnard, St. Justine Station.	3½ "	35	Mde. Beriault, St. Justine Station.	.....	4 02	.....	.....	1152	"
" 21	"	1153	J. A. N. Bourassa, Valleyfield.	4½ "	43	Mr. Laberge, Dewittville.	.....	4 11	.....	.....	1153	"
" 21	"	1154	O. Marchand, Beauharnois.	2 "	24	Unknown.	.....	4 55	.....	.....	1154	"
" 27	"	1155	Wm. Biltcliffe, Westmount.	2 "	24	W. D. Bradford, Granby.	.....	3 40	.....	.....	1155	"
May 6	"	1156	O. Champagne, 633 Notre Dame E., Montreal.	2½ "	30	Unknown.	.....	3 37	.....	.....	1156	"
" 6	"	1157	C. Rollin 1437 Ste-Catherine E., Montreal.	2 "	25	Gunn, Langlois & Co., Montreal.	.....	4 55	.....	.....	1157	"

BULLETIN No. 215—MAPLE SUGAR.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Inspector's Report. (If not an expression of opinion.)	RESULTS OF ANALYSIS.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.		Percent age on dry substance.	Lead Sub- acetate pre-cipitate.	Total Ash.		

DISTRICT OF OTTAWA—J. A. RICEY, INSPECTOR.

1910.							P. C.	P. C.	P. C.		
April 20	Maple Sugar..	42973	G. F. Cook, Almonte...	2 lbs.	25	Vendor.....	1.18	0.41	0.18	42973	Adulterated.
" 20	"	42974	H. H. Cole, Almonte...	2 "	30	Mrs. McKirdy, Almonte..	5.73	.....	.....	42974	Genuine.
" 22	"	42975	Mackay Bros., Renfrew.	2 "	22	W. M. Smith, Harlow, Ont.	2.88	.....	.....	42975	"
" 27	"	42976	P. Brankin, Market Sq., Ottawa.	3eakes	30	Ottawa Cold Storage, Ottawa.	1.88	0.61	0.45	42976	Adulterated.
" 27	"	42977	E. Gougeon, Market Sq., Ottawa.	1 "	10	Lerner & Son, Ottawa....	*1.58	0.44	.....	42977	"
" 27	"	42978	J. Bambrick, George St., Ottawa.	2 lbs.	30	J. D. McGregor, Ottawa..	1.54	0.46	0.20	42978	Genuine.
" 27	"	42979	W. B. Graham, Bank St., Ottawa.	2 "	30	Wm. Cullen, Ottawa....	2.80	.....	.....	42979	"
" 27	"	42980	Calderone & Bossio, Bank St., Ottawa.	2 "	30	Westover, Sutton-Junction	4.33	0.66	.....	42980	"
" 28	"	42981	F. A. Scott & Son, Wellington St., Ottawa.	2 "	30	Wm. Cullen, Ottawa....	3.03	.....	.....	42981	"
" 29	"	42982	A. Parkinson & Son, Kemptville.	3eakes	30	Sugars & Cannery, Ltd., Montreal.....	4.44	.....	.....	42982	Adulterated.
							1.34	0.44	0.19		
							*1.58	.....	.....		

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## DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.

April 15	Maple Sugar.	44267	Kelly Bros., Kingston...	30 keakes	Sugars & Cannery Ltd., Montreal...	2-13 1-96 #1-45	0-53 0-53 .....	0-58 0-15 .....	44267 Genuine. 44268 Doubtful. .....
" 15	"	44268	W. J. Nesbit, Kingston...	30 "	James Craig, Kingston...	.....	.....	.....	44269 Genuine.
" 15	"	44269	C. A. Pickering, Kingston...	30 "	Geo. Robertson & Son, Montreal.	.....	.....	.....	44270 Adulterated.
" 19	"	44270	Geo. Boyle, Belleville...	30 "	Imperial Syrup Co., Montreal.	1-68 #1-80	0-38 .....	0-12 .....	44271 "
" 19	"	44271	J. H. Young, Belleville...	30 "	J. Sloan, Belleville...	1-52 #1-91	0-48 .....	0-13 .....	44272 Doubtful.
" 19	"	44272	Beverly McDonald, Picton.	30 "	Unknown	1-80	0-58	0-12	.....
" 20	"	44273	T. R. Harvey, Cobourg...	2 "	Simcoe Adams, Danville, P.Q.	1-79	0-67	0-19	.....
" 20	"	44274	E. Guillet, Cobourg...	2 "	Gum, Toronto.	2-71 1-85	..... 0-53	..... 0-10	44274 Genuine. 44275 Adulterated.
" 21	"	44275	J. Sutherland, Peterboro	30 keakes	T. Kinnear Co., Peterboro	.....	.....	.....	.....
" 21	"	44276	P. S. White, Peterboro...	2 lbs.	W. J. Oke, Peterboro...	6-56	.....	.....	44276 Genuine.

## DISTRICT OF TORONTO—H. J. DAGGER, INSPECTOR.

May 5	Maple Sugar..	45012	S. H. Griffith, Welland	1 cake	Sugars, Ltd., Quebec.....	2-04	0-51	0-20	45012 Doubtful.
" 7	"	45013	Wolfe & Mosler, Port Colborne.	1 "	Imperial Syrup Co., Montreal.	0-91	0-46	0-07	45013 Adulterated.
" 9	"	45014	J. Allen, 353 Yonge St., Toronto.	1 lb.	Unknown	0-91	0-46	0-07	45014 "
" 10	"	45015	G. B. Draker, St. Catharines.	1 cake	John Ross, St. Catharines	2-33	.....	.....	45015 Genuine.
" 11	"	45017	F. H. Taylor, Niagara Falls.	2 cakes	Imperial Syrup Co., Montreal.	0-64	0-28	0-09	45017 Adulterated.
" 14	"	45018	H. S. Hooper, 241 King St. East, Hamilton.	1 cake	White & Co., Hamilton	2-11	0-60	0-16	45018 Doubtful.
" 16	"	45019	J. Blood, 419 Yonge St., Toronto.	1 lb.	J. Weston, 630 Ontario St., Toronto.	3-08	.....	.....	45019 Genuine.
" 16	"	45020	W. L. Wellwood, 1611 Yonge St., Toronto.	1 cake	Mr. Thompson, cor. Church & Front Sts., Toronto.	6-11	.....	.....	45020 "
" 16	"	45021	Robert Findley, 701 Queen St. East, Toronto.	1 "	Imperial Syrup Co., Montreal.	1-06	0-38	0-10	45021 Adulterated.
" 11	"	45011	Jas. Whimster & Co., Aurora.	1 lb.	J. Thompson, Athens ...	3-53	.....	.....	45011 Genuine.

\* Duplicate.

## BULLETIN No. 215—MAPLE SUGAR.

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.			Lead Sub-precipitate.	Percentage on dry substance.	Malic Acid Value.		

## DISTRICT OF LONDON—J. TALBOT, ACTING INSPECTOR.

1910.								p. c.	p. c.	p. c.		
May	5	Maple Sugar..	42303	W. R. Smith, Seaforth..	3 bars.	30	A. M. Smith & Co., Lon- don.	Twin Blocks pure maple sugar.	1.70 *1.60	0.45 0.23	42303	Adulterated.
"	5	"	42306	O. C. Whitley, Goderich	3 "	30	"	"	1.74 *1.88	0.47 0.24	42306	"
"	3	"	42583	Pickard & Fleming, St. Mary's	3 "	30	Jas. Lloyd, Stratford....	"	1.69 *1.88	0.43 0.31	42585	"
"	3	"	42586	John Walsh, St. Mary's	3 "	30	Sugars & Cannery, Ltd., Montreal.	"	1.71 *1.70	0.48 0.29	42586	"
"	4	"	42592	Walsh Bros., Stratford..	3 "	30	Unknown.....	Guaranteed pure....	1.48 *1.81	0.38 0.16	42592	"
"	4	"	42596	Knechtel Grocery Co., Stratford.	3 "	25	"	"	1.99 *1.85	0.51 0.33	42596	Doubtful.
"	4	"	42598	A. G. Lloyd, Stratford..	3 "	30	Jas. Lloyd, Stratford....	"	1.81 *1.95	0.45 0.29	42598	Adulterated.
"	4	"	42600	R. S. Jones, Stratford..	3 "	25	"	"	2.04 *2.22	0.61 0.51	42600	Genuine.

## DISTRICT OF WINDSOR—J. TALBOT, INSPECTOR.

								p. c.	p. c.	p. c.		
April 18		Maple Sugar..	42544	J. A. McCreary & Son, Guelph.	3 bars	30	Sugars Ltd., Montreal....	"	1.58 *1.49	0.47 0.46	42544	Adulterated.
" 18		"	42550	J. M. Dooley, Guelph..	3 "	30	"	"	1.79 *1.71	0.44 .....	42550	"



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"	18	"	42553	Jas. Gow, Guelph.....	3	"	30	Unknown .....	3-98	0-56	0-11	42553	Genuine.
"	19	"	42555	Beck & Schell, Berlin....	3	"	30	Davidson & Hay, Toronto	1-98	0-56	0-11	42555	Doubtful.
"	19	"	42556	A. E. Heller, Berlin.....	3	"	45	W. L. Sager, Freilighsburg P. Q.	*1-95	.....	.....	42556	Genuine.
"	19	"	42558	Dan. Bollender, Water- loo, Ont.	3	"	30	Jno. Garvey & Son, Len- don.	2-57	.....	.....	42559	"
"	19	"	42562	A. K. Raesch, Waterloo, 3	"	"	30	"	2-51	.....	.....	42562	Doubtful.
"	20	"	42565	John Sloan, Galt.....	3	"	30	Geo. Watts & Son, Brant- ford.	2-18	0-52	0-22	42565	"
"	20	"	42566	Hugh Walker, Galt.....	3	"	30	Sugars & Cannery, Ltd....	*2-17	0-48	0-56	42566	"
"	21	"	42573	A. M. Smith & Son, 3	"	"	30	Canada Maple Exchange, Co., Montreal.	*1-88	.....	.....	42573	Genuine.
"	"	"	"	Woodstock, Ont.	"	"	"	"	2-48	.....	.....	"	"
"	"	"	"	"	"	"	"	"	3-45	.....	.....	"	"

## DISTRICT OF MANTOBA A. C. LARIVIERE, INSPECTOR.

April	26	Maple Sugar..	43446	Hardy & Buchanan, Os- borne St., Winnipeg.	2 lbs.	40	O. E. Sherwood, Foster, P. Q.	4-33	.....	.....	.....	43446	Genuine.
"	29	"	43447	W. H. Stone Co., Winni- peg.	1½ "	25	Unknown .....	2-66	.....	.....	.....	43447	"
"	29	"	43448	J. A. McKenchar, Win- nipeg.	1½ "	25	T. W. Taylor, Brehton.	5-66	.....	.....	.....	43448	"
May	6	"	43449	Coyle Bros., Main St., Winnipeg.	1½ "	25	Maple Tree Producers As- sociation, Waterloo, P. Q.	4-02	.....	.....	.....	43449	"
"	6	"	43450	Harris Confectionery Store, 999 Main St., Winnipeg.	2 "	60	Imperial Syrup Co., Mont- real.	1-79	0-55	0-10	0-10	43450	Doubtful.
"	6	"	43451	The Hudson's Bay Co., Winnipeg.	1½ "	30	Maple Tree Producers As- sociation, Waterloo, P. Q.	*1-80	.....	.....	.....	43451	Genuine.
"	6	"	43452	J. J. Jackson, 252 Main St., Winnipeg.	1½ "	30	"	4-00	.....	.....	.....	43452	"
"	6	"	43453	J. G. Hargrave & Co., Winnipeg.	1½ "	30	Bright & Emery, Winni- peg.	3-42	.....	.....	.....	43453	"
"	6	"	43454	T. E. Williams, William Ave., Winnipeg.	2½ "	25	Unknown .....	4-73	.....	.....	.....	43454	"
"	6	"	43455	J. Paterson, Market St., Winnipeg.	2½ "	25	"	2-05	0-66	0-43	0-43	43455	"

\*Duplicate.

BULLETIN No. 215—MAPLE SUGAR.

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.			Percentage on dry substance.	Total Ash.	Lead Sub-acetate precipitate.	Malic Acid Value.		

DISTRICT OF CALGARY—R. W. FLETCHER INSPECTOR.

1910.											
April 29	Maple Sugar.	43701	Copas & Emerson, Calgary.	Cal-2 lbs.	40	Maple Tree Producers' Assocn., Ltd., Waterloo, P.Q.	.....	.....	.....	43701	Genuine.
" 29	"	43702	Wood & Green, Calgary.	2 " ..	40	G. B. Hall, Barnston, P.Q.	.....	.....	.....	43702	"
" 29	"	43703	Hudson's Bay Co., Calgary.	Cal-2 " ..	40	Maple Tree Producers' Assocn., Ltd., Waterloo, P.Q.	.....	.....	.....	43703	"
May 5	"	43704	R. Dunn, Medicine Hat.	2 " ..	40	Donnelly, Watson & Brown, Calgary.	.....	.....	.....	43704	"
" 5	"	43705	Spencer & Todd, Medicine Hat.	2 " ..	50	Maple Tree Producers' Assocn., Ltd., Waterloo, P.Q.	.....	.....	.....	43705	"
" 21	"	43706	The Good Co., bridge.	Leth-2 " ..	75	Edmund J. Berry, Bromer, P.Q.	.....	.....	.....	43706	"
" 18	"	43707	Hallier & Aldridge, Edmonton.	Ed-2 " ..	40	G. W. Earl, Elgin, Ont.	.....	.....	.....	43707	"
" 18	"	43708	C. Campbell & Co., Edmonton.	Ed-2 " ..	40	Unknown.	.....	.....	.....	43708	"
" 18	"	43709	The Hudson's Bay Co., Edmonton.	2 " ..	40	Maple Tree Producers' Assocn., Waterloo, P.Q.	.....	.....	.....	43709	"
" 1	"	43710	Capital Mercantile Co., Edmonton.	2 " ..	50	" " "	.....	.....	.....	43710	"

## SESSIONAL PAPER No. 14

## DISTRICT OF VANCOUVER—D. O'SULLIVAN, ACTING INSPECTOR.

May	5	Maple Sugar.	44836	Thayer & Co., Vancouver, B.C.	50	Edmund J. Berry, Québec.	.....	2.95	.....	44836	Genuine.
"	5	"	44838	The A. & C. Grocery Co., Vancouver, B.C.	50	Maple Tree Producers' Assocn., Montreal.	.....	4.46	.....	44838	"
"	5	"	44844	T. F. McDowell, Vancouver, B.C.	30	Kelly, Douglas & Co., Vancouver.	.....	3.86	.....	44844	"
"	5	"	44848	J. McTaggart, Vancouver, B.C.	40	Edmund J. Brome, Brome, P.Q.	.....	3.04	.....	44848	"
"	6	"	44852	J. S. Foran, Vancouver, B.C.	60	D. N. McDougall, Martintown, P.Q.	.....	4.55	.....	44852	"
"	6	"	44858	J. F. May, Vancouver, B.C.	25	Kelly, Douglas & Co., Vancouver.	.....	4.64	.....	44858	"
"	8	"	44875	West End Grocery, Westminster.	25	The W. H. Malkin Co., Ltd., Vancouver.	.....	2.12	0.46	44875	Adulterated.
"	8	"	44878	T. S. Annandale, Westminster.	30	Kelly, Douglas & Co., Vancouver.	.....	2.05	0.60	44878	Doubtful.
"	8	"	44880	C. A. Welch, Westminster.	30	"	.....	1.85	0.55	44880	"
"	8	"	44882	The New Westminster Co-op. Assocn., Ltd.	25	The W. H. Malkin Co., Ltd., Vancouver.	.....	1.94	0.56	44882	"

APPENDIX K.

BULLETIN No. 216—GROUND COFFEE.

OTTAWA, October 3, 1910.

WM. HIMSWORTH, Esq.,  
Acting Deputy Minister of Inland Revenue.

SIR,—I have the honour to submit you herewith a report upon 297 samples purchased throughout Canada in June and July last, as Ground Coffee. The following is a summary statement of the results of their examination :—

	Samples.
Collected by mistake. { Sold unground.....	2
" " " " { " as compound.....	9
Found genuine.....	260
" adulterated.....	26
	<hr/> 297

Of 26 samples found adulterated, 15 contained chicory only, and in amount not exceeding 10 per cent. These samples I have thought it right to indicate as *technically adulterated*, since it is fair to assume that no intention to defraud the purchaser exists. An article offered as coffee, should undoubtedly be nothing else than coffee, but so many consumers prefer a small addition of chicory that dealers frequently add an ounce or so to the pound in order to meet a known expectation of the customer.

This does not hold where the amount of chicory present is excessive (I have drawn the limit at 10 per cent), nor does it hold where roasted grain, or other starchy material is added.

The following table shows the results of coffee inspection in Canada since the year 1888 :—

Year.	Reported in Bulletin.	Total samples examined.	Found adulterated.	Found genuine.	Percentage found genuine.
1888.....	3	85	41	44	52
1892.....	29	140	55	54	38
1892.....	31	141	39	102	72
1904.....	100	75	19	45	60
1909.....	172	449	45	391	87
1910.....	216	297	26	260	88

Samples not accounted for in the columns headed 'Adulterated' and 'Genuine' were classified as 'doubtful,' or 'sold as compound.' It is very satisfactory to observe that a great improvement in the character of this article is evidenced.

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At first sight it might seem practicable, and perhaps even desirable, to fix a limit for chicory, beyond which the addition of chicory to coffee, without declaration of the fact, should be regarded as actual adulteration. Such suggestion will not bear criticism, and the only tenable procedure would seem to be the distinct declaration that chicory is present, whenever it has been added in any quantity however small.

I beg to recommend the publication of this report as Bulletin No. 216.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,  
*Chief Analyst.*



## BULLETIN No. 216—GROUND COFFEE.

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.			Microscopical Examination.	Sp. Gr. of a 10 per cent Extract.	Iodine Reaction for Starch.			
DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.													
1910.													
June 29	Ground Coffee	42001	S. Thomson, Dartmouth, N.S.	$\frac{1}{2}$ lb.	20	T. S. Esterbrooks, St. John, N. B.	'Red Cross' brand	.....	1.0091	None...	42001	Genuine.	
" 29	"	42002	Colin McNab & Co., Dartmouth, N.S.	$\frac{1}{2}$ " "	20	C. H. Cochrane, Ottawa	'McNab's Special'	.....	1.0091	"	42002	"	
" 29	"	42003	A. W. Huxtable, Dartmouth, N.S.	$\frac{1}{4}$ " "	15	Unknown	'White Swan'	Chicory. ....	1.0122	"	42003	About 10 p.c. chicory; technically adulterated.	
" 29	"	42004	G. A. Ormon, Dartmouth, N.S.	$\frac{1}{2}$ " "	20	Bower & Bartlett, Boston, Mass.	'Red Shield'	.....	1.0090	"	42004	Genuine.	
July 5	"	42005	J. L. Archibald & Son, Halifax, N.S.	$\frac{1}{2}$ " "	20	Chase & Sanborn, Boston, Mass.	'Seal' brand.	.....	1.0090	"	42005	"	
" 5	"	42006	W. J. Holgood & Son, Halifax, N.S.	$\frac{1}{2}$ " "	20	"	'No. 1'	.....	1.0091	"	42006	"	
" 5	"	42007	T. F. Courtney & Son, Halifax, N.S.	$\frac{1}{2}$ " "	20	"	'Choice Jamaica'	.....	1.0091	"	42007	"	
" 6	"	42008	A. L. Doyle & Co., Halifax, N.S.	$\frac{1}{2}$ " "	15	"	"	.....	1.0090	"	42008	"	
" 6	"	42009	E. B. Tracey, Halifax, N.S.	$\frac{1}{2}$ " "	15	C. H. Cochrane, Ottawa	"	.....	1.0090	"	42009	"	
" 6	"	42010	E. Donahoe & Son, Halifax, N.S.	$\frac{1}{2}$ " "	20	Chase & Sanborn, Montreal.	"	.....	1.0091	"	42010	"	
" 6	"	42011	S. T. Creig, Halifax, N.S.	$\frac{1}{2}$ " "	15	"	'Creig's Special'	.....	1.0090	"	42011	"	
" 7	"	42012	Larder, Hubble & Co., Halifax, N.S.	$\frac{1}{2}$ " "	18	Thos. Wood Co., Montreal.	'Boston Coffee'	.....	1.0090	"	42012	"	
" 7	"	42013	Jno. Tobin & Co., Halifax, N.S.	$\frac{1}{2}$ " "	20	Vendors	'L.X.L.' brand.	.....	1.0091	"	42013	"	
" 7	"	42014	A. P. Torrens, Halifax, N.S.	$\frac{1}{2}$ " "	20	Vendor	Mocha and Java.	.....	1.0093	"	42214	"	

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DISTRICT OF PRINCE EDWARD ISLAND—THEO. MOORE, INSPECTOR.									
June 20	Ground Coffee	38720	C. C. Carlton, Souris, 1 lb ..	18	Chase & Sanborn, Jamaica, Montreal.	1-0090	"	42015	"
"	"	38721	A. Currie & Co., Souris 1/2 lb ..	20	Vendors, Sterling Blend ..	1-0094	"	42016	"
"	"	38722	A. L. McDonald, Souris, 1/2 lb ..	16	Chase & Sanborn, No. 1 Blend ..	1-0090	"	42017	"
"	"	38723	Stearns Bros., Souris, 1/2 lb ..	20	Thos. Wood Co., Montreal, Boston Coffee ..	1-0090	"	42018	"
"	"	38724	Cox Bros., Morell, 1/2 lb ..	18	White Swan Spices & Cereal Co., Toronto, Pure ..	1-0091	"	42019	"
"	"	38725	M. L. McMillan, Hunter River, 1/2 lb ..	20	Chase & Sanborn, Pure ..	1-0091	"	42020	"
"	"	38726	Geo. McLeod, Hunter River, 1/2 lb ..	18	Chase & Sanborn, Pure ..	1-0091	"	42020	"
"	"	38727	McLeun Bros., North Wiltshire, 1/2 lb ..	16	Chaput fils & Co., Montreal, XXX Java and Mocha ..	1-0089	"	38727	Genuine, about 10 p.c. chicory ; technically adulterated.
"	"	38728	J. A. Hynes, Kensington, 1/2 lb ..	16	Carvell Bros., Charlottetown, XXX Java and Mocha ..	1-0107	"	38728	"
"	"	38729	R. Tophin & Co., Kensington, 1/2 lb ..	18	Chaput fils & Co., Montreal, Old Government Java and Mocha ..	1-0100	"	38729	"
"	"	38730	Brace & McKay, Summerside, 1/2 lb ..	20	Vendors, Java and Mocha ..	1-0089	"	38730	s
"	"	38731	R. T. Hahn, Summerside, 1/2 lb ..	18	Chase & Sanborn, Java and Mocha ..	1-0088	"	38731	Not ground coffee.
"	"	38732	W. J. Lidstone, Summerside, 1/2 lb ..	20	Snowdon, Forbes & Co., Montreal, Sm' brand, guaranteed absolutely pure, Acorn ..	1-0088	"	38732	Genuine.
"	"	38733	G. W. Warren, Paul & Thompson, Montague, 1/2 lb ..	20	G. E. Barbour, St. John, N.B., Pure Gold Co., Toronto, 'New York' Coffee ..	1-0090	"	38733	"
July 5	"	38734	Paul & Thompson, Montague, 1/2 lb ..	15	Pure Gold Co., Toronto, 'New York' Coffee ..	1-0171	Starch ..	38734	Marked 'Compound,' pound.

## BULLETIN No. 216—GROUND COFFEE.

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.			Microscopical Examination.	Sol. gr. of a 10 per cent Extract.	Iodine Reaction for Starch.		

## DISTRICT OF PRINCE EDWARD ISLAND—Continued.

1910.	July	5	Ground Coffee	38735	Wm. Lamont, Montague.	$\frac{1}{2}$ lb.	15	Unknown		Chicory	1-0126	None	38735	About 10 p.c. chicory; technically adulterated.
"	"	6	"	38736	J. D. Hume, Murray River.	$\frac{1}{2}$ " "	20	"			1-0094	"	38736	Gemine.
"	"	6	"	38737	Prowse & Son, Murray River.	$\frac{1}{2}$ " "	16	Carvell Bros., Charlottetown.			1-0115	"	38737	"
"	"	7	"	38738	Sanderson & Co., Charlottetown.	$\frac{1}{2}$ " "	20	Vendors			1-0087	"	38738	"
"	"	7	"	38739	A. Gates & Co., Charlottetown.	$\frac{1}{2}$ " "	20	"			1-0090	"	38739	"

## DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.

June	14	Ground Coffee	45241	James Moulson, St. John, N.B.	$\frac{1}{2}$ lb.	20	Vendor				1-0092	None	45241	Gemine.
"	14	"	45242	G. H. Humphrey, St. John, N.B.	$\frac{1}{2}$ " "	20	"				1-0092	"	45242	"
"	15	"	45243	Two Bakers, Ltd., St. John, N.B.	$\frac{1}{2}$ " "	15	Vendors				1-0092	"	45243	"
"	16	"	45244	Dearborn & Co., St. John, N.B.	$\frac{1}{2}$ " "	20	"				1-0089	"	45244	"
"	17	"	45245	G. E. Barbour Ltd., St. John, N.B.	$\frac{1}{2}$ " "	20	"	Acorn brand			1-0094	"	45245	"
"	17	"	45246	R. A. McKinnon, Fairville, N.B.	$\frac{1}{2}$ " "	20	Vendor				1-0090	"	45246	"

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June 23	Ground Coffee	45247	John Dewar & Son, St. George, N.B.	18	Vendor	.....	1'0089	None	45247	Genuine.
"	"	45248	Fred E. Rose, Stephen, N.B.	20	"	Standard Java	1'0093	"	45248	"
July	"	45249	M. E. Doonan, Fred erickton, N.B.	20	"	.....	1'0089	"	45249	"
"	"	45250	The Yexxa Grocery Co., Fredericton, N.B.	18	Vendors	.....	1'0089	"	45250	"
"	"	45251	W. S. Skillen, Woodstock, N.B.	20	"	.....	1'0090	"	45251	"
"	"	45252	Benjamin Beveridge, Andover, N.B.	25	T. H. Estabrooks, St. John, N.B.	Estabrook's Red Rose Coffee.	1'0093	"	45252	"
"	"	45253	H. N. Dickinson, Perth, N.B.	20	G. E. Barbour Co., Ltd., St. John, N.B.	'Acorn' brand	1'0094	"	45253	"
"	"	45254	Jas. F. McCluskey, Grand Falls, N.B.	20	Thos. Wood & Co., Boston and Montreal	Wood's Boston Coffee, 'Wo-Bo-Co' brand.	1'0090	"	45254	"
"	"	45255	W. B. McKay & Co., Ltd., Sussex, N.B.	20	Vendors	'Red Shield'	1'0091	"	45255	"
"	"	45256	S. C. Goggin, Petitcodiac, N.B.	20	Vendor	.....	Coffee beans	.....	45256	Not ground coffee
"	"	45257	J. A. Roy, Moncton, N.B.	20	White Swan Co., Toronto.	'White Swan' brand.	1'0097	None	45257	Genuine.
"	"	45258	H. T. Brewster, Moncton, N.B.	20	Vendor	.....	1'0090	"	45258	"

## DISTRICT OF QUEBEC—E. BELAND, INSPECTOR.

June 28	Ground Coffee	36443	Modeste Claput, St. $\frac{1}{2}$ lb. . . . .	20	Pierre Dery, Montmorency.	.....	Chicory	.....	1'0192	None	36443	About 50 p. c. chicory; adulterated.
"	"	36444	Francois Lafleur, St. $\frac{1}{2}$ "									

BULLETIN No. 216—GROUND COFFEE.

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.			Microscopical Examination.	Sp. Gr. of a Extract.	Iodine Reaction for Starch.		

DISTRICT OF QUEBEC—Continued.

1916	June 28	Ground Coffee	36451	Jos. E. Tonchette, $\frac{1}{2}$ lb ..	20	J. B. Reneaud & Cie, Quebec.	.....	.....	1.0091	None...	36451	Genuine.
"	"	"	36452	Charle Montmorency Sault Ste Marie, $\frac{1}{2}$ " ..	20	Thomson, Quebec.	.....	.....	1.0090	"	36452	"
"	"	"	36453	Joseph Tramblay, $\frac{1}{2}$ " ..	20	Unknown	.....	.....	1.0092	"	36453	"
"	"	"	36454	Jacques V. Pégare, $\frac{1}{2}$ " ..	20	N. Turcotte & Cie, Quebec.	.....	.....	1.0091	"	36454	"
"	"	"	36455	Mad. V. J. Morand, $\frac{1}{2}$ " ..	16	J. B. Reneaud & Cie, Quebec.	.....	.....	1.0093	"	36455	"
"	"	"	36456	Pierre Légare, Charlebourg, $\frac{1}{2}$ " ..	13	Unknown	.....	.....	1.0090	"	36456	"
"	"	"	36457	Francois Jobin fils, $\frac{1}{2}$ " ..	20	Francois frere & Cie, Quebec.	.....	.....	1.0090	"	36457	"
"	"	"	36458	Charlebourg, Charlebourg, $\frac{1}{2}$ " ..	20	Unknown.	.....	.....	1.0092	"	36458	"
"	"	"	36459	Francois Jobin, Charlebourg, $\frac{1}{2}$ " ..	20	Unknown.	.....	.....	1.0096	"	36459	"
"	"	"	36460	Jos. O. Savard, St. Ambroise, $\frac{1}{2}$ " ..	20	"	.....	.....	1.0091	"	36460	"
"	"	"	36461	Henry Ross & Son, Indian Lorret, $\frac{1}{2}$ " ..	20	Whitehead & Turner, Quebec.	.....	.....	1.0093	"	36461	"
"	"	"	36462	Jule Verret, Jeanne Lornet, $\frac{1}{2}$ " ..	20	Aning & Son, Montreal.	.....	.....	1.0093	"	36462	"
"	"	"	36462	Francois Reneaud, $\frac{1}{2}$ " ..	20	N. Turcotte & Cie, Quebec.	.....	.....	1.0090	"	36462	"



SESSIONAL PAPER No. 14

## DISTRICT OF ST. HYACINTHE—J. C. ROULEAU, INSPECTOR.

June 22	Ground Coffee	1301	N. Larivé, Farnham...	$\frac{1}{2}$ lb.	20	Kearney Bros., Mont- real.	Thistle Blend	1'0108	"	1301	"
" 23	"	1302	A. Poisy, St. Jean ...	$\frac{1}{2}$ " "	20	Chase & Sanborn, Montreal.	Royal Blend	1'0090	"	1302	"
" 23	"	1303	Tremblay & Cie, St. Catherine de Hatley.	$\frac{1}{2}$ " "	20	Depault Grain & Produce Co., Sher- brooke.		1'0091	"	1303	"
" 23	"	1304	T. Paradis, Magog...	$\frac{1}{2}$ " "	20	— Lister, Montreal.		1'0091	"	1304	"
" 24	"	1305	D. S. Bachand, Coats- brook.	$\frac{1}{2}$ " "	20	Chase & Sanborn, Mont- real.		1'0090	"	1305	"
" 27	"	1306	Dine, W. Rochette,	$\frac{1}{2}$ " "	20	A. C. Trempe, Sorel.	Roasted grain...	1'0111	Present.	1306	Adulterated.
" 27	"	1307	J. E. Senecal, St. t.	$\frac{1}{2}$ " "	20	C. A. Peltier, St. t.		1'0099	None...	1307	Genuine.
" 27	"	1308	Thos. Gill, St. Fran- cois du Lac.	1 " "	30	Joseph de Sorel, A. Comte & Cie, Mont- real.	La Creole Brand...	1'0114	"	1308	About 10 p.c. chicory; tech- nically adulter- ated.
" 28	"	1309	Schooner & Cie, Pierre- ville.	$\frac{1}{2}$ " "	14	Laporte Martin & Cie, Montreal.		1'0090	"	1309	Genuine.
" 28	"	1310	E. Barril, Gentilly...	$\frac{1}{2}$ " "	15	L. Chaput fils & Cie, Montreal.	Marked Maracibo extra de choix, A. Comte & Cie.	1'0114	Present.	1310	Adulterated.
" 28	"	1311	N. Ricard, St. Gregoire	$\frac{1}{2}$ " "	20	Unknown.		1'0094	None...	1311	Genuine.
" 29	"	1312	Jos. Mahew, Artha- baskaville.	$\frac{1}{2}$ " "	20	Kearney Bros, Mont- real.	Thistle Blend	1'0092	"	1312	"
" 30	"	1313	L. E. Thibauden, Plessisville.	$\frac{1}{2}$ lb.	20	L. Chaput fils et Cie, Montreal.		1'0090	"	1313	"
July 11	"	1314	Royer & Fiset, Sher- brooke.	$\frac{1}{2}$ " "	20	Chase & Sanborn, Mon- real.		1'0090	"	1314	"
" 11	"	1315	Dean & Lacy, Sher- brooke.	$\frac{1}{2}$ " "	20	" " "		1'0090	"	1315	"
" 12	"	1316	J. E. Roy, D'Israeli.	$\frac{1}{2}$ " "	20	C. O. Genest et fils, Sherbrooke.		1'0093	"	1316	"
" 12	"	1317	J. H. Dionne, Gar- thley.	$\frac{1}{2}$ " "	20	Chase & Sanborn, Montreal.		1'0091	"	1317	"
" 13	"	1318	R. B. Scott & Sons, Steeptown.	$\frac{1}{2}$ " "	20	Thos. Wood & Co., Ltd., Montreal.		1'0091	"	1318	"
" 14	"	1319	A. W. Girard, La Patrie.	1 " "	40	W. D. Stroud & Son, Montreal.	Compound Coffee	1'0139	"	1319	Sold as com- pound. Con- tains about 20 p.c. chicory.
" 19	"	1320	M. Vezeina, St. Denis River, Rich.	$\frac{1}{2}$ " "	20	Lacaille, Gendreau et Cie, Montreal.		1'0096	"	1320	Genuine.
" 19	"	1321	Omer Brien, St. Marc.	1 " "	30	The F. F. Dalley Co., Hamilton.	Coffee mixture...	1'0194	Present.	1321	Sold as coffee mixture.

## BULLETIN No. 216—GROUND COFFEE.

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.			Microscopical Examination.	Sp. Gr. of a 10 per cent Extract.	Iodine Reaction for Starch.			
DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.													
1910.													
June 13	Ground Coffee	39902	St. Feldman, 24 Pine Ave. E., Montreal.	1 lb.	15	National Coffee and Spice Co., Montreal.			1.0099	None	39902	Genuine.	
" 13	"	39903	H. Schlachter, 18 Pine Ave. E., Montreal.	1/2 "	15	L. Slapack, Montreal.			1.0098	"	39903	"	
" 13	"	39904	J. Estocovitch, 1195 St. Dominique, Montreal.	1/2 "	13		Chicory		1.0138	"	39904	Contains about 20 p.c. chicory. Adulterated.	
" 13	"	39905	J. A. Marlean, 250 Duluth Ave. E., Montreal.	1/2 "	20	W. D. Stroud & Son, Montreal.			1.0094	"	39905	Genuine.	
" 13	"	39906	J. Martineau, 913 St. Andre, Montreal.	1/2 "	20	Unknown.			1.0094	"	39906	"	
" 13	"	39907	W. Chartrand, 1127 St. Andre, Montreal.	1/2 "	20	"			1.0099	"	39907	"	
" 13	"	39908	H. Chevalier, 469 Marie Anne E., Montreal.	1/2 "	20	"	Chicory		1.0162	"	39908	Contains about 30 p.c. chicory. Adulterated.	
" 13	"	39909	L. J. Phaneuf, 541 Mont Royal Ave. E., Montreal.	1/2 "	20	Clase & Sanborn, Montreal.			1.0097	"	39909	Genuine.	
" 13	"	39910	A. Mercier, 621 Mount Royal Ave. E., Montreal.	1/2 "	15	J. J. Duffy & Co., Montreal.			1.0089	"	39910	"	
" 13	"	39911	A. Remillard, 578 Marie Anne E., Montreal.	1/2 "	20				1.0090	"	39911	"	
" 14	"	39912	F. Rivet, Joliette, P.Q.	1/2 "	20	E. D. Marceau, Montreal.			1.0091	"	39912	"	
" 14	"	39913	J. A. Lavallee, Joliette, P.Q.	1/2 "	20	Unknown			1.0088	"	39913	"	

## SESSIONAL PAPER No. 14

14	"	39914	Pierre Poirier, St. Gabriel de Brandon, P.Q.	$\frac{1}{2}$ lb ..	18	.....	.....	.....	1-0087	"	39914	"
"	14	39915	J. N. Prevost, St. Gabriel de Brandon, P.Q.	$\frac{1}{2}$ lb ..	20	.....	.....	.....	1-0094	"	39915	"
"	16	39916	A. Poirier, Valleyfield, P.Q.	$\frac{1}{2}$ lb ..	20	L. Gendron, Valleyfield	.....	.....	1-0115	.....	39916	Contains less than 10 p.c. chicory; technically adulterated.
"	16	39917	N. Chartand, Valleyfield, P.Q.	$\frac{1}{2}$ lb ..	20	S. H. Eving & Sons, Montreal	.....	.....	1-0093	None	39917	Genuine.
"	18	39918	J. D. Campbell & Co., Lachine.	$\frac{1}{2}$ lb ..	20	White Swan Spice and Cereal, Ltd., Toronto	.....	.....	1-0093	"	39918	"
"	18	39919	E. Lavigne, Lachine.	$\frac{1}{2}$ lb ..	18	L. Chaput fils & Cie, Montreal.	.....	Owl brand	1-0110	"	39919	Contains less than 10 p.c. chicory; technically adulterated.
"	20	39920	D. Hetu, St. Agathe des Monts.	$\frac{1}{2}$ lb ..	20	.....	.....	Seal brand	1-0092	"	39920	Genuine.
"	20	39921	J. H. Giroux, St. Agathe des Monts.	$\frac{1}{2}$ lb ..	20	Vendor	.....	.....	1-0092	"	39921	"

## DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.

June 11	Ground Coffee	43001	H. T. Murray Co., Ltd., Brockville.	$\frac{1}{2}$ lb ..	20	Vendors	.....	.....	1-0090	None	43001	Genuine.
"	11	43002	McHenry's, Brockville	$\frac{1}{2}$ lb ..	20	Vendor	.....	.....	1-0089	"	43002	"
"	15	43003	R. E. Powell, Elgin St., Ottawa.	$\frac{1}{2}$ lb ..	20	"	.....	.....	1-0090	"	43003	"
"	15	43004	J. C. Wilson, Elgin St., Ottawa.	$\frac{1}{2}$ lb ..	20	"	.....	.....	1-0090	"	43004	"
"	15	43005	D. A. Younghusband, Elgin St., Ottawa.	$\frac{1}{2}$ lb ..	20	McLaren's, Hamilton.	.....	.....	1-0098	"	43005	"
"	15	43006	J. H. Lashley, 51 Main St., Ottawa.	$\frac{1}{2}$ lb ..	20	Vendor	.....	After purchase vendor stated sample contained about 1 oz. chicory	1-0137	"	43006	Contains about 20 p.c. chicory. Adulterated.
"	15	43007	Strond's, Hull, P.Q.	$\frac{1}{2}$ lb ..	20	"	.....	After purchase vendor stated sample contained chicory.	1-0114	"	43007	Contains less than 10 p.c. chicory; technically adulterated.
"	15	43008	O. Lemieux, Hull, P.Q.	$\frac{1}{2}$ lb ..	20	"	.....	.....	1-0092	"	43008	Genuine.

BULLETIN No. 216—GROUND COFFEE.

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.			Microscopical Examination.	Sp. Gr. of a Extract.	Iodine Reaction for Starch.			
DISTRICT OF OTTAWA—Continued.													
1910.													
"	15 Ground Coffee	43009	P. H. Charron, Hull, P. Q.	1 lb ..	20	Vendor .....	.....	.....	1.0088	None...	43009	Genuine.	
"	"	43010	Nelson Grayburn, Billings Bridge.	$\frac{1}{2}$ "	15	J. M. Lowes, Toronto.	J. M. Lowes coffee	.....	1.0087	"	43010	"	
"	"	43011	G. E. Pelton, Billings Bridge.	$\frac{1}{2}$ "	20	F. J. Castle Co., Ottawa.	Chase & Sanborn's coffee.	.....	1.0087	"	43011	"	
"	"	43012	D. G. Cowan, Billings Bridge.	$\frac{1}{2}$ "	18	J. M. Lowes, Toronto.	J. M. Lowes coffee	.....	1.0090	"	43012	"	
"	"	43013	Leacy & Shields, Pen-broke.	$\frac{1}{2}$ "	20	Vendors .....	.....	.....	1.0091	"	43013	"	
"	"	43014	Fenton & Smith, Pen-broke.	$\frac{1}{2}$ "	20	"	.....	.....	1.0087	"	43014	"	
"	"	43015	D. J. Gillies, Cornwall wall.	$\frac{1}{2}$ "	20	Vendor .....	.....	.....	1.0088	"	43015	"	
"	"	43016	Fawkes & Co., Cornwall.	$\frac{1}{2}$ "	20	Vendors .....	.....	.....	1.0090	"	43016	"	
"	"	43017	Casselman Bros., Morrisburg.	$\frac{1}{2}$ "	18	Vendors .....	.....	.....	1.0089	"	43017	"	
"	"	43018	Bradfield Bros., Morrisburg.	$\frac{1}{2}$ "	18	"	.....	.....	1.0088	"	43018	"	
July	"	43019	C. Whitney & Son, Prescott.	$\frac{1}{2}$ "	18	"	.....	.....	1.0089	"	43019	"	
"	"	43020	J. Mayberry & Co., Prescott.	$\frac{1}{2}$ "	18	"	.....	.....	1.0089	"	43020	"	

## SESSIONAL PAPER No. 14

## DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.

June 16	Ground Coffee	45701	Stroud Bros., Kingston.	King- ston.	King- ston.	1 lb.	20	Stroud Bros., Montreal	.....	.....	1-0092	None...	45701	Genuine.
" 16	"	45702	P. A. Hafner, Kingston.	King- ston.	King- ston.	$\frac{1}{2}$ "	15	J. M. Lowes, Toronto.	.....	.....	1-0090	"	45702	"
" 16	"	45703	J. McCulla, Kingston.	King- ston.	King- ston.	$\frac{1}{2}$ "	20	Todhunter & Mitchell, Toronto.	.....	.....	1-0091	"	45703	"
" 16	"	45704	J. Lemmon, Kingston.	King- ston.	King- ston.	$\frac{1}{2}$ "	10	Dalton Bros., Toronto.	.....	.....	1-0120	.....	45704	Contains about 15 p.c. chicory adulterated.
" 16	"	45705	D. B. Gage, Kingston.	King- ston.	King- ston.	$\frac{1}{2}$ "	20	Geo. Robertson & Son, Kingston.	.....	.....	1-0094	None...	45705	Genuine.
" 16	"	45706	Mrs. Powers, Kingston.	King- ston.	King- ston.	$\frac{1}{2}$ "	20	Gorman & Bekert, Ltd., London.	.....	.....	1-0086	"	45706	"
" 20	"	45707	R. Richardson, Nap- tance.	King- ston.	King- ston.	$\frac{1}{2}$ "	15	.....	.....	.....	1-0092	"	45707	"
" 20	"	45708	J. Paisley, Napance.	King- ston.	King- ston.	$\frac{1}{2}$ "	20	.....	Coffee was part of stock, bought from former pro- prietor W. Coxall	.....	1-0108	.....	45708	Contains a trace of chicory, tech- nically adulter- ated.
" 20	"	45709	R. Elvins, Belleville.	Belleville.	Belleville.	$\frac{1}{2}$ "	20	Unknown	.....	.....	1-0091	None...	45709	Genuine.
" 20	"	45710	A. G. Vernilyea, Belleville.	Belleville.	Belleville.	$\frac{1}{2}$ "	20	Pure Gold Co., Toronto	.....	.....	1-0084	"	45710	"
" 20	"	45711	W. Patterson, Belleville.	Belleville.	Belleville.	$\frac{1}{2}$ "	20	C. H. Cochrane, Ottawa.	.....	.....	1-0085	"	45711	"
" 20	"	45712	Wallbridge & Clarke, Belleville.	Belleville.	Belleville.	$\frac{1}{2}$ "	20	Chase & Sanborn, Toronto.	.....	.....	1-0088	"	45712	"
" 21	"	45713	T. A. Fisher, Lindsay.	Lindsay.	Lindsay.	$\frac{1}{2}$ "	20	Todhunter & Mitchell, Toronto.	.....	.....	1-0088	"	45713	"
" 21	"	45714	Adams Bros., Lindsay.	Lindsay.	Lindsay.	$\frac{1}{2}$ "	20	Chase & Sanborn, Montreal.	.....	.....	1-0087	"	45714	"
" 21	"	45715	J. Fleury, Lindsay.	Lindsay.	Lindsay.	$\frac{1}{2}$ "	20	J. Sloan, Toronto.	.....	.....	1-0091	"	45715	"
" 21	"	45716	A. C. Babcock, Lindsay.	Lindsay.	Lindsay.	$\frac{1}{2}$ "	20	E. Blain, Toronto.	.....	.....	1-0088	"	45716	"
" 21	"	45717	H. S. Burnham, Peterboro.	Peterboro.	Peterboro.	$\frac{1}{2}$ "	20	Perkins Ince & Co., Peterboro.	.....	.....	1-0092	"	45717	"
" 21	"	45718	H. B. Bradshaw, Peterboro.	Peterboro.	Peterboro.	$\frac{1}{2}$ "	20	Todhunter & Mitchell, Toronto.	.....	.....	1-0088	"	45718	"
" 21	"	45719	A. J. Warne, Peterboro.	Peterboro.	Peterboro.	1 lb.	20	McLaren, Hamilton.	.....	.....	1-0090	"	45719	"
" 22	"	45720	S. Froot, Port Hope.	Port Hope.	Port Hope.	1 "	20	E. Blain, Toronto.	.....	.....	1-0088	"	45720	"



## BULLETIN No. 216—GROUND COFFEE.

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				Quantity.	Cents.			Microscopical Examination.	Sp. Gr. of a Extract.	Iodine Reaction for Starch.			
DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.													
1910													
June 16	Ground Coffee	45057	C. E. Jones, Uxbridge	$\frac{1}{2}$ lb.	20	R. B. Hayhoe & Co., Toronto.	Sample from tin, labelled 'Golden Eagle' Coffee, J. M. Lowes, Ltd., Toronto. Sold as ground coffee.		1.0119	None	45057	Contains about 10 p.c. chicory, technically adulterated.	
" 17	"	45058	S. W. Siddall, Hughson St., Hamilton.	$\frac{1}{2}$ "	15	Vendor.			1.0094	"	45058	Genuine.	
" 18	"	45059	The Whitfield Tea and Specialty Co., Hamilton.	$\frac{1}{2}$ "	20				1.0112	"	45059	Contains a trace of chicory, technically adulterated.	
" 21	"	45060	Mrs. C. Fitzpatrick, Arthur St., Toronto.	$\frac{1}{2}$ "	20	Minto Bros., Toronto.			1.0090	"	45060	Genuine.	
" 23	"	45062	S. J. McMoran, Alton.	$\frac{1}{2}$ "	20	The J. M. Lowes Co., Ltd., Toronto.	Vendor bought as pure coffee.		1.0093	"	45062	"	
" 27	"	45063	J. B. Johnson, Orillia.	$\frac{1}{2}$ "	20	R. B. Hayhoe & Co., Toronto.			1.0094	"	45063	"	
" 29	"	45064	H. G. Jefferies, Parliament St., Toronto.	$\frac{1}{2}$ "	15	Unknown			1.0090	"	45064	"	
" 29	"	45065	A. L. Anderson, Dundas St., W., Toronto.	$\frac{1}{2}$ "	15	Club Coffee Co., Toronto.			1.0103	"	45065	"	
" 30	"	45066	Jas. Bishop, Oshawa.	$\frac{1}{2}$ "	20	Thos. Kinnear & Co., Toronto.			1.0097	"	45066	"	
" 30	"	45067	W. B. Pringle, Whitby.	$\frac{1}{2}$ "	20	The Eby Blain Co., Ltd., Toronto.			1.0096	"	45067	"	
July 5	"	45068	John Groves, Gravenhurst.	$\frac{1}{2}$ "	20	Chase & Sanborn, Montreal.	'Seal' Brand.		1.0091	"	45068	"	

## SESSIONAL PAPER No. 14

"	5	"	45069	R. A. Lawson, Bridge.	20	Unknown	.....	.....	1-0096	"	45069	"	
"	6	"	45070	J. J. Baile, Huntsville.	20	Chase & Sanborn, Montreal.	.....	'Seal' Brand.....	1-0092	"	45070	"	
"	6	"	45071	M. B. Green, Huntsville.	13	Perkins Ince & Co., Toronto.	.....	Chicory.....	1-0120	"	45071	Contains about 10 p.c. chicory, technically adulterated.	
"	6	"	45072	James Cain, Huntsville.	20	Unknown	.....	.....	1-0180	Present.	45072	Adulterated.	
"	7	"	45073	A. E. Callahan, Huntsville.	20	J. M. Lowes & Co., Toronto.	.....	'Golden Eagle'.....	1-0091	None.....	45073	Genuine.	
"	8	"	45074	J. H. Badger, Parry Sound.	20	The Elby Blain Co., Ltd., Toronto.	.....	.....	1-0093	"	45074	"	
"	8	"	45075	R. M. Holmes, Parry Sound.	20	"	.....	'Empress' Coffee.....	1-0091	"	45075	"	
"	8	"	45076	Malcolm & Hill, Parry Sound.	13	C. H. Cochrane & Co., Ottawa.	.....	.....	1-0111	"	45076	Contains a trace of chicory, technically adulterated.	
"	8	"	45098	W. R. Kenney, Parry Harbour.	20	Davidson & Hay, Toronto.	.....	'Capital'.....	1-0094	"	45098	Genuine.	

## DISTRICT OF LONDON—T. KIDD, INSPECTOR.

July 23	"	Ground Coffee	44606	Cardino Bros., Seaforth.	20	Thos. Woods, Montreal	.....	.....	1-0092	None.....	44606	Genuine.	
"	26	"	44608	Harrison Wilse, Clinton.	20	White Swan Co., Toronto.	.....	.....	1-0090	"	44608	"	
"	26	"	44611	B. A. McEwin, Clinton.	20	Canada Spice and Grocery Co., Toronto.	.....	.....	1-0091	"	44611	"	
June 25	"	"	44754	Maureo Blatter, grocer, Clinton.	40	F. F. Dalley Co., Hamilton.	.....	.....	1-0091	"	44754	"	
"	27	"	44757	J. A. McCrea, Guelph.	20	Todhunter & Mitchell, Toronto.	.....	.....	1-0089	"	44757	"	
"	27	"	44758	Hood & Banallie, Guelph.	20	"	.....	.....	1-0089	"	44758	"	
"	28	"	44764	A. Beattie & Co., Stratford.	20	Chase & Sanborn, Montreal.	.....	.....	1-0092	"	44764	"	
July 12	"	"	44767	Morrice & McClinton, grocers, Goderich.	20	Todhunter & Mitchell, Toronto.	.....	.....	1-0090	"	44767	"	
"	13	"	44769	J. J. McEwin, grocer, Goderich.	20	Gorman & Eckert, London, Ont.	.....	.....	1-0090	"	44769	"	
"	13	"	44771	O. C. Whitley, grocer, Goderich.	20	Todhunter & Mitchell, Toronto.	.....	.....	1-0090	"	44771	"	
"	13	"	44776	G. M. Chambers, Blythe.	40	Unknown	.....	.....	1-0090	"	44776	"	

BULLETIN No. 216—GROUND COFFEE.

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				Quantity.	Cents.			Microscopical Examination.	Sp. Gr. or a Extract.	Iodine Reaction for Starch.		

DISTRICT OF LONDON—Continued.

1910.												
"	14	Ground Coffee	44779 McGlowe & Cummings, grocers, Wingham.	1 lb ..	20	Chase & Sanborn, Montreal.	.....	.....	1·0094	None	44779	Genuine.
"	14	"	44782 Fred Bender, Listerwell.	1 " ..	40	Unknown	.....	.....	1·0091	"	44782	"
"	14	"	44783 J. H. McDonald, Lis-towell.	1 " ..	40	Jas. Turner & Co., Hamilton.	.....	.....	1·0091	"	44783	"
"	19	"	44790 J. M. Adam, St. Mary's	1 1/2 " ..	20	Vendor	.....	.....	1·0090	"	44790	"
"	19	"	44791 A. Beattie & Co., St. Mary's.	1 1/2 " ..	20	Chase & Sanborn, Montreal.	.....	.....	1·0091	"	44791	"
"	20	"	44794 Michael Durkin, Mitchell.	1 1/2 " ..	20	Thos. Wood, Montreal.	.....	.....	1·0091	"	44794	"
"	21	"	44799 Michael Kinghamer, Dublin.	1 1/2 " ..	20	Gorman & Eckert, London.	.....	.....	1·0090	"	44799	"

DISTRICT OF WINDSOR—JOHN. TALBOT, INSPECTOR.

June 20	Ground Coffee	42324	A. Raines, Essex.	1 lb ..	13	Todhunter & Mitchell, Toronto.	.....	.....	1·0089	None	42324	Genuine.
"	"	42327	J. J. Foster, Leamington.	1 1/2 " ..	15	M. Masuret & Co., London.	.....	.....	1·0088	"	42327	"
"	"	42342	Alfred Johnson, London.	1 1/2 " ..	20	Pure Gold Mfg. Co., Toronto.	.....	.....	1·0091	"	42342	"
"	"	42343	F. W. Paul & Son, London.	1 1/2 " ..	20	Gorman Eckert & Co., London.	.....	.....	1·0090	"	42343	"
"	"	42347	T. W. Vincent, London.	1 1/2 " ..	20	Canada Spice & Grocery Co., London.	.....	.....	1·0092	"	42347	"

## SESSIONAL PAPER No. 14

"	27	"	42348	Fonger & Taylor, London. don.	20	Todhunter & Mitchell, Toronto.	.....	.....	.....	1-0091	Present.	42318
"	27	"	42402	Robt. Parsons, London	25	White-Swan Cereal Co., Toronto.	.....	.....	Roasted grain.	1-0160	.....	42402
"	27	"	42403	W. Davies, London.	15	Davies Co., Toronto.	.....	.....	Chicory.	1-0112	None.	42403
"	27	"	42405	A. Kilbourn, London.	13	J. E. Connor, London.	.....	.....	.....	1-0090	"	42405
"	27	"	42408	H. Fontaine, London.	13	Gorman Eckert & Co., London.	.....	.....	.....	1-0091	"	42408
"	27	"	42409	Wm. Hayes, London.	13	Balfour & Co., Ham- ilton.	.....	.....	.....	1-0092	"	42409
"	28	"	42413	P. Purvis, London.	13	A. M. Smith & Co., London.	.....	.....	.....	1-0090	"	42413
"	28	"	42415	J. McKenzie, London.	15	Gorman Eckert & Co., London.	.....	.....	.....	1-0089	"	42415
"	28	"	42416	Connor Bros., London.	13	Unknown.	.....	.....	.....	1-0091	"	42416
"	28	"	42419	F. Harley & Son, London. don.	15	C. H. Cochrane & Co., Ottawa.	.....	.....	.....	1-0093	"	42419
"	28	"	42421	E. Noel, London.	13	Thos. Wood, Montreal	.....	.....	.....	1-0092	"	42421
"	28	"	42422	Wm. Longfurey, London. don.	15	Unknown.	.....	.....	.....	1-0091	"	42422
"	28	"	42423	Fulcher & Northmore, London.	15	A. M. Smith & Co., London.	.....	.....	.....	1-0089	"	42423
"	28	"	42425	Kidner & Co., London.	13	Gorman Eckert & Co., London.	.....	.....	.....	1-0091	"	42425
"	28	"	42426	Mrs. Hobbins, London.	20	Canada Spice & Gro- cery Co., London.	.....	.....	.....	1-0090	"	42426

## DISTRICT OF MANITOBA—A. C. LARIVIERE, INSPECTOR.

June	23	Ground Coffee	43407	Collins & Munroe, Miami.	20	The Blue Ribbon Co., Winnipeg.	.....	.....	.....	1-0094	None.	43407	Genuine.
"	30	"	43468	A. C. Duke, Winnipeg. Bechl.	20	The Hudson Bay Co., Winnipeg.	.....	.....	.....	1-0092	"	43468	"
"	30	"	43469	Wm. Robinson & Co., Ltd., Winnipeg. Bechl.	26	Gold Standard Mfg. Co., Winnipeg.	.....	.....	.....	1-0092	"	43469	"
July	6	"	43470	Duncan & Hunter, St. James.	15	Unknown.	.....	.....	.....	1-0090	"	43470	"
"	6	"	43471	Grogan & Co., St. James.	20	Foley Bros. & Larson, Winnipeg.	.....	.....	.....	1-0091	"	43471	"
"	7	"	43472	A. Biggins, Elgin.	20	The Dyson Co., Win- nipeg.	.....	.....	.....	1-0090	"	43472	"

BULLETIN No. 216—GROUND COFFEE.

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.			Microscopical Examination.	Sp. Gr. of a Extract.	Iodine Reaction for Starch.		
1910												
July	8 Gr	43473	Ross & Cunningham, Elm.	lb ..	20	Campbell Bros. & Wilson, Winnipeg.			1.0090	None...	43473	Genuine.
"	"	43474	McIntyre & Castell, Belmont.	½ "	20	The Codville Co., Winnipeg.			1.0089	"	43474	"
"	"	43475	G. Tumbo, Belmont.	½ "	20	A. Macdonald & Co., Winnipeg.			1.0091	"	43475	"
"	"	43476	The City Tea & Coffee Co., Winnipeg.	½ "	15	Vendors.			1.0091	"	43476	"
"	"	43477	W. A. Wales, Winnipeg.	½ "	15	Gold Standard Mfg. Co., Toronto.			1.0092	"	43477	"
"	"	43478	Bell & Gregg, Winnipeg.	½ "	15	Vendors.			1.0088	"	43478	"
"	"	43479	J. Lezack, Winnipeg.	½ "	10	Foley Bros. & Larsen, Winnipeg.			1.0091	"	43479	"
"	"	43480	Moffett & Douglas, Winnipeg.	½ "	20	Gold Standard Mfg. Co., Winnipeg.			1.0091	"	43480	"
"	"	43481	Philip Moss, Winnipeg.	½ "	20	The White Star Mfg. Co., Winnipeg.	White Star Coffee.		1.0089	"	43481	"
"	"	43482	J. A. Partington, Winnipeg.	½ "	20	Foley Bros. & Larsen, Winnipeg.	Premier Brand....		1.0090	"	43482	"
"	"	43483	Landin Bros., Logan Ave., Winnipeg.	½ "	20	Chase & Saulborn, Montreal.			1.0094	"	43483	"
"	"	43484	B. Dilman, Selkirk.	½ "	20	Vendor.			1.0090	"	43484	"
"	"	43485	E. Leunux, Winnipeg.	½ "	20	The Blue Ribbon Mfg. Co., Winnipeg.			1.0094	"	43485	"
"	"	35899	Wm. Epstein, Winnipeg.	½ "	20	"			1.0091	"	35899	"

DISTRICT OF MANITOBA—Continued.



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## DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR.

July	5	Ground Coffee	43736	Cradlock & Viner, Lethbridge.	20	Vendors.	1'0091	None.	43736	Genuine.
"	5	"	43737	George Keir & Co., Lethbridge.	20	"	1'0091	"	43737	"
"	5	"	43738	A. Macdonald & Co., Lethbridge.	20	"	1'0093	"	43738	"
"	5	"	43739	Hudson's Bay Co., Lethbridge.	20	"	1'0090	"	43739	"
"	13	"	43741	R. Dunn, Medicine Hat.	25	Vendor.	1'0090	"	43741	"
"	13	"	43742	The D. Milne Co., Medicine Hat.	25	Vendors.	1'0091	"	43742	"
"	22	"	43743	W. H. Hayes, Calgary.	20	Young Bros., Vancouver, B.C.	1'0091	"	43743	"
"	22	"	43744	D. Jackson, Calgary.	25	Wood & Green, Calgary.	1'0089	"	43744	"
"	22	"	43745	E. A. Rosser, Calgary.	25	Vendor.	1'0090	"	43745	"
"	22	"	43746	J. T. Macdonald, Calgary.	15	"	1'0090	"	43746	"
"	22	"	43747	Speer Bros., Calgary.	25	Vendors.	1'0089	"	43747	"
Aug.	8	"	43748	G. E. Compton, Wetaskiwin.	25	Vendor.	1'0091	"	43748	"
"	8	"	43749	Thibault & Trading Co., Wetaskiwin.	25	Vendors.	1'0094	"	43749	"
"	9	"	43750	Douglas Bros., Lethbridge.	25	"	1'0090	"	43750	"
"	9	"	43751	A. H. Richards & Co., Strathcona, Alta.	25	A. H. Richards & Co.	1'0089	"	43751	"
"	10	"	43752	A. Livingston, Edmonton.	25	Vendor.	1'0091	"	43752	"
"	10	"	43753	Fred. Schattner, Edmonton.	25	"	1'0092	"	43753	"
"	10	"	43754	Atkin Bros., Edmonton.	25	Vendors.	1'0090	"	43754	"
"	10	"	43755	Wm. Hencher, Edmonton.	25	Vendor.	1'0090	"	43755	"
"	10	"	43801	Hallier & Aldridge, Edmonton.	25	Vendors.	1'0089	"	43801	"

## DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.

June	21	Ground Coffee	37936	R. L. Carter, Hancey, B.C.	20	Empress Mfg. Co., Vancouver.	1'0093	None.	37936	Genuine.
"	21	"	37937	G. W. Allison, Hammond.	20	W. Brad & Co., Vancouver.	1'0092	"	37937	"

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## BULLETIN No. 216—GROUND COFFEE.

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.			Microscopical Examination.	Sp. Gr. of a 10 per cent Extract.	Iodine Reaction for Starch.			
DISTRICT OF VANCOUVER—Continued.													
1910.													
"	22	Ground Coffee	37938 E. Pooke & Co., Vancouver.	20	20	W. Braid & Co., Vancouver.	.....	.....	1·0086	None...	37938	Genuine.	
"	22	"	37939 Mrs. McWhinney, Vancouver.	20	20	Kelly Douglas & Co., Vancouver.	.....	.....	1·0094	"	37939	"	
"	23	"	37940 Leming Fawcette & Wilson, Ladner, B.C.	20	20	"	.....	.....	1·0090	"	37940	"	
"	23	"	37941 W. H. Smith, Ladner, B.C.	20	20	W. Braid & Co., Vancouver.	.....	Chicory.....	1·0136	"	37941	Contains more than 15 p.c. chicory adulterated.	
"	23	"	37942 J. Hutchinson, Ladner, B.C.	20	20	Pioneer Coffee & Spice Mills, Victoria, B.C.	.....	.....	1·0089	"	37942	Genuine.	
"	23	"	37943 Rubinowitz Stores, Steveston, B.C.	20	20	North West Spice Mills.	.....	.....	1·0094	"	37943	"	
"	23	"	37944 Eburne Trading Co., Eburne, B.C.	20	20	Wm. Braid & Co., Vancouver.	.....	Chicory.....	1·0106	"	37944	Contains a trace of chicory; technically adulterated.	
"	27	"	37945 G. A. Welsh, Sapperton, B.C.	20	20	"	.....	.....	1·0088	"	37945	Genuine.	
"	27	"	37946 T. S. Annandale, New Westminster, B.C.	20	20	Wm. Braid & Co., Vancouver.	.....	.....	1·0089	"	37946	"	
"	27	"	37947 Geo. Adams, New Westminster, B.C.	20	20	Kelly, Douglas & Co., Vancouver.	.....	.....	1·0087	"	37947	"	
"	27	"	37948 West End Grocery, New Westminster, B.C.	20	20	Wm. Braid & Co., Vancouver.	.....	.....	1·0089	"	37948	"	

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"	27	"	37949	J. Quoy, New Westminster, B.C.	20	Kelly, Douglas & Co., Vancouver.	1' 0090	37949	"
"	27	"	37950	A. Gaudin, New Westminster, B.C.	10	Unknown.	1' 0090	37950	"
"	27	"	37951	N. C. Nilson, New Westminster, B.C.	15	"	1' 0089	37951	"
"	27	"	37952	Larsen & Anne, New Westminster, B.C.	15	Wm. Braid & Co., Vancouver.	1' 0087	37952	"
"	27	"	37953	Herbert & Moore, New Westminster, B.C.	15	Earle & Co., Victoria.	1' 0087	37953	"
"	28	"	37954	Wells & Co., Vancouver.	25	Wm. Braid & Co., Vancouver.	1' 0105	37954	Contains a trace of chicory; technically adulterated.
"	28	"	37955	Jno. F. May, Vancouver.	25	"	1' 0090	37955	Genuine.

## DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.

June	20	Ground Coffee	41679	Windsor Grocery Co., Victoria, B.C.	20	Pioneer Coffee & Spice Mills, Victoria, B.C.	Chicory	1' 0115	None	41679	Contains about 10 p. c. chicory. Sold as compound.
"	20	"	41680	The Saunders Grocery Co., Ltd., Victoria, B.C.	20	Chase & Sanborn, Montreal.		1' 0094	"	41680	Genuine.
"	21	"	41681	The West End Grocery Co., Ltd., Victoria, B.C.	20	W. Braid & Co., Vancouver.		1' 0090	"	41681	"
"	21	"	41682	H. D. Kirkham, Victoria, B.C.	20	Hallam & Wyndham, Victoria.		1' 0096	"	41682	"
"	22	"	41683	Harrison & McDonald, Victoria, B.C.	20	A. Shilling & Co., San Francisco, Cal.		1' 0090	"	41683	"
"	22	"	41684	Acton Bros., Victoria, B.C.	20	Young Bros., Vancouver.		1' 0090	"	41684	"
"	22	"	41685	Wm. B. Hall, Victoria, B.C.	20	Empress Mfg. Co., Vancouver.		1' 0090	"	41685	"
"	23	"	41686	Copas & Young, Victoria, B.C.	20	The W. H. Malkin Co., Vancouver.		1' 0089	"	41686	"
"	23	"	41687	F. C. Plummer, Victoria, B.C.	20	Young Bros., Vancouver.		1' 0092	"	41687	"
"	24	"	41688	L. Dickinson, Victoria, B.C.	20	Pioneer Coffee & Spice Mills, Victoria, B.C.		1' 0094	"	41688	"
"	24	"	41689	J. Renouf, Victoria, B.C.	20	The W. A. Jamieson Coffee Co., Victoria, B.C.	Vendor stated sample was not sold as pure coffee, as it contained a little chicory.	Trace of chicory.	1' 0109	41689	Contains a trace of chicory. Sold as compound.

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## BULLETIN No. 216—GROUND COFFEE.

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.			Microscopical Examination.	Sp. Gr. of a 10 per cent Extract.	Iodine Reaction for Starch.			
DISTRICT OF VICTORIA—Continued.													
1910.													
June 24	Ground Coffee	41690	E. G. Bailey, Victoria, B.C.	$\frac{1}{2}$ lb.	20	Empress Mfg. Co., Vancouver.	.....	.....	1.0090	None	41690	Genuine	
" 24	"	41691	Erskine & Co., Victoria, B.C.	$\frac{1}{2}$ lb.	20	Victoria Coffee & Spice Mills, Victoria, B.C.	.....	.....	1.0093	"	41691	"	
" 27	"	41692	A. Pool, Victoria, B.C.	$\frac{1}{2}$ lb.	20	Empress Mfg. Co., Vancouver.	.....	.....	1.0091	"	41692	"	
" 27	"	41693	Dixie H. Ross & Co., Victoria, B.C.	$\frac{1}{2}$ lb.	20	J. A. Folger & Co., San Francisco, Cal.	.....	.....	1.0092	"	41693	"	
" 28	"	41694	Carl B. Jameson, Victoria, B.C.	$\frac{1}{2}$ lb.	20	The W. A. Jameson Coffee Co., Victoria, B.C.	.....	.....	1.0089	"	41694	"	
" 28	"	41695	Woods & White, Victoria, B.C.	$\frac{1}{2}$ lb.	20	"	.....	.....	1.0093	"	41695	"	
" 28	"	41696	Hallam & Wyndham, Victoria, B.C.	$\frac{1}{2}$ lb.	20	J. W. Berry, Vancouver, B.C.	.....	.....	1.0091	"	41696	"	
" 28	"	41697	J. J. Bradford, Victoria, B.C.	$\frac{1}{2}$ lb.	20	Empress Mfg. Co., Vancouver, B.C.	.....	.....	1.0092	"	41697	"	
" 18	"	41698	W. A. Jameson Coffee Co., Victoria, B.C.	$\frac{1}{2}$ lb.	20	Thos. B. Greening & Co., Toronto, Ont.	.....	.....	1.0094	"	41698	"	

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## APPENDIX L.

## BULLETIN No. 217—STRAINED HONEY.

OTTAWA, October 4, 1910.

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

SIR,—I beg to hand you a report upon 148 samples purchased in June and July of this year, as Strained Honey. The collection represents all parts of the Dominion.

Three samples purchased in Montreal, are labelled as compound. Section 30 of the Adulteration Act forbids the sale of imitations of honey, and a circular (G. 862) was issued by the department, and dated Jan. 20, 1909, as follows:—

‘Under Section 30 of the ‘Adulteration Act’ the manufacture, sale or offering for sale in Canada of any imitation of honey or sugar honey or other substitute for honey is strictly forbidden. The provisions of Section 24 of the said Act respecting the use of the word ‘mixture’ does not apply to honey and any production or sale of this article as a compound is absolutely prohibited.’

The punishment for any offence against the provisions of Section 30, above referred to, is determined by Section 164 of the Criminal Code and consists in the liability to a term of imprisonment for one year.’ It appears from correspondence with vendors that the sale of compound honey has been due to ignorance of the existence of any prohibition in the case.

With regard to the remaining 145 samples, decision as to their genuineness will depend upon the constants accepted as limits of variability for true honey. This important matter has more than once been brought to the notice of those interested by the late Chief Analyst, in Bulletin 90 (1903), and by myself in Bulletin 145 (1908). In November, 1908, I addressed the Ontario Bee-Keepers’ Association at Toronto, upon the subject of standards for honey, and, in consequence the following letter was forwarded to the Deputy Minister.

ONTARIO DEPARTMENT OF AGRICULTURE,

PARLIAMENT BUILDINGS,

TORONTO, November 30, 1908.

DEAR SIR,—I beg to transmit you herewith copy of resolution which was passed at the last meeting of the Ontario Bee-Keepers’ Association held in Toronto, November 11–13.

I might say that this resolution was passed toward the close of the Convention. Mr. McGill, Chief Analyst of your department gave the members a very clear address on the ‘Adulteration of Honey.’ Our members had considered this matter more or less for a number of years, and the attendance at the session when Mr. McGill delivered



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his address was the best that we have known for a long time, so that a great deal of interest was taken in the matter. The discussion on the paper lasted through the succeeding three sessions and finally culminated in the adoption of the inclosed resolution.

As an Association, we are now asking your department for the necessary legislation to be passed whereby the sense of the aforementioned resolution will become law.

The discussion on Mr. McGill's address as well as the address itself will be published in full in the Annual Report, and I will have much pleasure in sending a copy to you on receipt of the same from the King's Printer.

Very truly yours,

(Sgd). P. W. HODGETTS.

W. J. GERALD, Esq.,  
Deputy Minister,  
Inland Revenue Department,  
Ottawa, Ont.

Resolution :

'Recognizing the importance of legal definition in the case of honey, this Association respectfully recommends the adoption of the following description as embodying the present state of our knowledge regarding Canadian Honey.

'Honey is entirely the product of the work of bees (*Apis Mellifica*) operating upon the nectar of flowers, and other saccharine exudations of plants ; and contains not more than 25 per cent of water, or more than 8 per cent of sucrose (cane sugar), nor less than 60 per cent of invert sugar. It does not give a blue colour with iodine (absence of starch syrup) nor a red colour with aniline acetate (absence of artificial invert sugar) nor a dark colour with Ley's reagent (ammoniacal silver) nor a marked precipitate of dextrin, on adding large excess of alcohol (absence of glucose syrup).'

Applying to the 145 samples sold as genuine honey, the standards suggested in the above definition of honey, it is found that seventeen samples exceed 25 per cent of water, although the excess is in most of these cases so small as to be negligible. In only one instance does it notably exceed 27 per cent (No. 39937), and in this sample it is probable that water has been added. None of the specific tests show the presence of other adulterants except in the case of No. 38760 and 37971, which give reaction for invert sugar, possibly added as such.

Section 5 of the Adulteration Act prohibits the feeding of bees with sugar, except for the purpose of being consumed by them as food ; and makes the supplying of sugar to bees with intent to production of honey, a wilful adulteration of honey. Small amounts of cane sugar are found in genuine honey ; but it is extremely rare to find more than 8 per cent, and the standard fixed for the United States of America makes 8 per cent of cane sugar the limit in legal honey. Elsewhere I have suggested that a limit of 10 per cent be fixed for Canada, to ensure that no genuine honey should be condemned ; since it has occurred in the history of this laboratory that one or two samples of honey, believed to be genuine, have given nearly 10 per cent of cane sugar. The Ontario Bee-Keepers Association has, however, declared in favour of an 8 per cent limit for cane sugar. It will be seen that eight (8) samples of the present collection, sold as genuine honey, contain above 8 per cent of cane sugar. Of this number, two contain such large amounts, viz. 18.0 and 25.15 per cent that I am compelled to judge them adulterated, under the Act. The other six samples contain from 9.3 to 13.1 per cent cane sugar, and I have marked them as of doubtful purity, a concession which may be allowed until such time as the suggested standard of 8 per cent becomes law.

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The following synopsis of past work on honey is of interest :—

Year.	Bulletin.	Total Samples	Found Genuine.	Found Doubtful.	Found adulterated.	Sold as compound.
1897.....	47	183	164	—	19	—
1903.....	90	99	81	5	13	—
1906.....	122	54	44	—	9	1
1908.....	145	253	219	4	16	14
1908.....	148	141	135	3	2	1
1910.....	217	148	122	20	3	3

It is satisfactory to know that honey, as offered for sale in Canada, is for the most part a genuine product.

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.*

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BULLETIN No. 217—

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.		

## DISTRICT OF NOVA SCOTIA—

1910.							
June 29	Strained Honey.	42021	Shore & Campbell, 3 lbs.. Halifax, N.S.	75		L. Hill, Port Williams, N.S.	Labelled Pure..
July 5	"	42022	T. H. Brown, Halifax, 3 " .. N.S.	75		Howard Mfg. Co., Halifax, N.S.	"
" 5	"	42023	City Provision Store, 3 bots. Halifax, N.S.	45		F. W. Fearman, Hamilton, Ont.	Labelled Pure..
" 5	"	42024	J. St. Clair, Coombes, 3 " .. N.S.	45		Nat. Drug and Chem. Co., Halifax, N.S.	"
" 6	"	42025	Nat. Drug and Chem. 2 lbs.. Co., Halifax, N.S.	50		Robinson & Co., Il. ford, Ont.	"
" 7	"	42026	Bauld Bros., Ltd., 3 bots. Halifax, N.S.	60		P. S. McGregor & Son, Kingston, N.S.	Labelled Pure..
" 7	"	42027	Brown Bros. & Co., 1½ lbs. Halifax, N.S.	35		Nat. Drug and Chem. Co., Halifax, N.S.	"
" 13	"	42028	J. W. Livingstone, 3 bots. Windsor, N.S.	45		L. Hill, Port Williams, N.S.	Labelled Pure..
" 14	"	42029	W. L. Ormond, Am. 2 lbs.. herst, N.S.	40		F. W. Fearman, Hamilton, Ont.	Sold as Clover Honey.
" 14	"	42030	R. C. Fuller & Co., 3 bots. Amherst, N.S.	45		Nat. Drug and Chem. Co., St. John, N.B.	Labelled Pure White Clover.

## DISTRICT OF PRINCE EDWARD ISLAND—

June 20	Strained Honey.	38755	H. J. Mabon, Souris. 3 bots.	75		Nat. Drug and Chem. Co., Halifax, N.S.	Pure Extracted Honey
" 21	"	38756	Mathew & McLean, 3 " .. Souris.	48		The Brayley Drug Co., Ltd., St. John, N.B.	Pure White Clo- ver Honey.
" 23	"	38757	Keir & McFadyen, 3 " .. Kensington.	38		Dr. Keir, Kensing- ton.	"
" 24	"	38758	Wagh & Steeves, 3 " .. Summerside.	60		J. Johnson, Long River, P.E.I.	"
" 24	"	38759	McGougan & Wright, 3 " .. Summerside.	60		A. K. Widden, North Bedeque, P.E.I.	Warranted Pure Honey.
" 29	"	38760	Sanderson & Co., 3 " .. Charlottetown.	45		"	Upton's Pure Clarified Hon- ey.
" 29	"	38761	W. N. Fanton, Char- 3 " .. lottetown.	45		Vendor .....	Warranted Pure
July 4	"	38762	L. A. Haszard, Char- 3 " .. lottetown.	45		Harold Newson, Rocky Point, P.E.I.	"
" 5	"	38763	Paul & Thompson, 3 " .. Montague.	60		Upton, Montreal...	Pure Clarified Honey.
" 5	"	38764	Mrs. D. Johnson, 3 " .. Montague.	75		The Canada Drug Co., St. John, N.B.	"

## DISTRICT OF NEW BRUNSWICK—

June 15	Strained Honey.	45276	W. H. Bell, St. John, 3 bots. N.B.	65		Leonard A. Hill, Port Williams, N.S.	Warranted Pure Honey.
" 16	"	45277	James Collins, St. 3 " .. John, N.B.	60		E. L. Colpitts, Petit- codiac, N.B.	Pure Honey ....
" 16	"	45278	W. A. Porter, St. 3 " .. John, N.B.	55		"	"

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## STRAINED HONEY.

RESULTS OF ANALYSIS.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
Water, p.c.	Polarization at 20° C.			Cane-Sugar by Clerget For- mula, p.c.	Physical Characteristics.			
	Direct.	Invert.	Differ- ence.		Colour.	Granula- tion.		

R. J. WAUGH, INSPECTOR.

23.3	-11.8	-15.7	3.7	2.7	Dark straw...	None....	42021	Genuine.
20.5	-13.6	-16.8	3.2	2.3	White.....	Complete.	42022	"
20.5	-15.9	-18.5	2.6	2.0	Light straw...	" ..	42023	"
27.0	-13.3	-14.8	1.5	1.1	" ..	None....	42024	Water high; otherwise genuine.
21.1	-14.9	-17.3	2.4	1.8	White.....	Complete.	42025	Genuine.
24.5	-10.0	-15.1	5.1	3.8	Light brown...	None....	42026	"
21.0	-10.3	-14.9	4.6	3.4	Light straw...	Complete.	42027	"
22.2	-10.4	-18.4	8.0	6.0	Straw .....	None....	42028	"
22.7	-13.7	-18.7	5.0	3.7	White.....	Complete.	42029	"
27.4	-5.5	-19.0	13.5	10.0	Dark brown...	Slight....	42030	Water and cane sugar high; otherwise genuine.

THEO. MOORE, INSPECTOR.

27.4	-4.2	16.7	12.15	9.3	Light straw...	Partial....	38755	Water and cane sugar high; otherwise genuine.
27.5	-12.8	-18.2	5.4	4.1	" ..	" ..	38756	Water high; fermenting; otherwise genuine.
23.4	-11.9	-16.9	5.0	3.7	" ..	" ..	38757	Genuine.
23.3	-12.8	-16.0	3.2	2.3	" ..	Complete.	38758	"
21.5	-14.5	-18.1	3.6	2.6	White.....	" ..	38759	"
25.0	-14.0	-17.1	3.1	2.3	Light straw...	Partial...	38760	Furfural reaction with aniline acetate; Ley's test, reddish brown; doubtful.
23.6	-14.6	-18.1	3.5	2.5	" ..	None....	38761	Genuine.
21.7	-13.4	-18.7	5.3	4.0	" ..	Partial...	38762	"
25.0	-20.4	-23.5	3.1	2.3	Dark straw...	" ..	38763	"
28.4	-16.5	-21.6	5.1	3.8	Straw .....	" ..	38764	Water high; fermenting; otherwise genuine.

J. C. FERGUSON, INSPECTOR.

23.2	-12.0	-16.2	4.2	3.1	Dark straw...	None....	45276	Genuine.
24.5	-14.4	-16.7	2.3	1.8	Light brown...	" ..	45277	"
24.1	-14.2	-16.8	2.6	2.0	Dark straw...	Complete.	45278	"

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BULLETIN No. 217—

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.		
DISTRICT OF NEW BRUNSWICK—							
1910.							
June 17	Strained Honey.	45279	G. E. Barbour Co., Ltd., St. John, N.B.	3 bots.	50	Ruthford & Marshall, Toronto, Ont.	'Gold Bond', Pure Bee's Honey.
" 24	" ..	45280	Geo. F. Crawford, St. Stephen, N.B.	3 " ..	75	George F. Beach, Honeydale, N.S.	Pure Clover Honey.
July 5	" ..	45281	W. A. Estabrook, Fredericton, N.B.	3 " ..	75	F. W. Fearman Co., Hamilton.	Labelled Pure Honey; vendor would not guarantee purity.
" 5	" ..	45282	Garden Bros., Woodstock, N.B.	2 " ..	60	G. S. Peabody, Woodstock, N.B.	.....
" 19	" ..	45283	Sussex Mercantile Co., Ltd., Sussex, N.B.	3 " ..	60	W. E. Bishop, Pleasant Vale, N.B.	Warranted Pure Honey.
" 19	" ..	45284	S. L. Stockton, Petitediac, N.B.	3 " ..	65	E. L. Colpitts, Petitediac, N.B.	Brookside Apiary Pure Honey.
" 20	" ..	45285	G. O. Stratton, Moncton, N.B.	3 " ..	90	Chas. E. Norton, Sunny Brae, N.B.	Warranted Pure Extracted Honey.
DISTRICT OF QUEBEC—							
June 24	Strained Honey.	36433	Jos. A. Barrette, Petite Riviere.	3 bots.	60	Vendor .....	.....
" 24	" ..	36434	Jos. E. Rousseau, 1, 289 Rue St. Valier.	3 " ..	36	Chas. Gauvin, Ancienne Lorrette.	.....
" 24	" ..	36435	Albert Faucher, 49 Rue St. Bernard.	3 " ..	60	Unknown.....	.....
" 24	" ..	36436	" " "	3 " ..	54	" .....	.....
" 24	" ..	36437	Adrien Hebert, 99 Rue Acaduc.	3 " ..	45	" .....	.....
" 24	" ..	36438	Elzear Dumontigny, 187 Rue Kironack.	3 " ..	45	" .....	.....
" 24	" ..	36439	Alfred G. Ganon, 111 Rue St. Germain.	3 " ..	60	N. Turcotte & Cie, Quebec.	.....
" 24	" ..	36440	Dell A. Peticlerc, 99 Rue St. Germain.	3 " ..	40	W. Brunette & Cie, Quebec.	.....
" 24	" ..	36441	Nazaire Cote, 79 Rue St. Ambroise.	3 " ..	45	Unknown.....	.....
" 24	" ..	36442	Hamel & Bedard, 728 Rue St. Valier.	3 " ..	45	Pierre Hamel, Ancienne Lorrette.	.....
DISTRICT OF ST. HYACINTHE—							
June 22	Strained Honey.	1338	G. L. Elmes, Farnham	2 lb. .	36	Gunn, Langlois & Co., Montreal.	After purchase vendor stated he did not know whether sample sold was pure or not.
" 24	" ..	1339	Woodman & McKee, Coaticook.	1½ " ..	25	" .....	.....



SESSIONAL PAPER No. 14

## STRAINED HONEY.

RESULTS OF ANALYSIS.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
Water, p.c.	Polarization at 20° C.			Cane Sugar by Clerget For- mula, p.c.	Physical Characteristics.			
	Direct.	Invert.	Differ- ence.		Colour.	Granula- tion.		

J. C. FERGUSON, INSPECTOR—*Concluded.*

20.2	— 8.5	—18.7	10.2	7.6	Light straw...	None.....	45279	Genuine.
25.3	—12.9	—15.0	2.1	1.6	Dark straw. .	Partial...	45280	Water high ; otherwise genu- ine.
21.4	—16.4	—18.7	2.3	1.8	Light straw...	Complete.	45281	Genuine.
23.1	—14.3	—18.1	3.8	2.8	Dark straw...	Partial...	45282	"
22.8	—14.1	—17.3	3.2	2.3	Straw.....	None.....	45283	"
25.1	— 5.6	—10.0	4.4	3.2	Light brown .	" .....	45284	Water high ; otherwise genu- ine.
26.2	—15.0	—18.7	3.7	2.7	Straw.....	" .....	45285	" "

E. BELAND, INSPECTOR.

21.4	+ 1.2	—14.6	15.8	11.8	Light straw. .	None.....	36433	Cane sugar high ; otherwise genuine.
19.1	— 0.8	—14.8	14.0	10.4	White.....	Complete.	36434	" "
25.2	— 5.7	— 8.8	3.1	2.3	Dark straw...	None.....	36435	Water high ; otherwise genu- ine.
23.0	+ 2.1	—14.0	16.1	12.0	Straw... ..	" .....	36436	Cane sugar high ; otherwise genuine.
22.1	— 6.0	—15.3	9.3	6.9	White.....	Complete.	36437	Genuine.
22.0	—15.2	—20.6	5.4	4.1	Straw.....	" ..	36438	"
19.3	— 5.0	—11.1	6.1	4.5	" .....	Partial...	36439	"
20.8	— 0.5	—18.1	17.6	13.1	Light straw...	None.....	36440	Cane sugar high ; otherwise genuine.
19.2	—10.6	—15.4	4.8	3.6	White.....	Complete.	36441	Genuine.
20.8	— 6.5	—14.0	7.5	5.5	" .....	" ..	36442	"

J. C. ROULEAU, INSPECTOR.

20.2	—11.4	—16.6	5.2	3.9	White.....	Complete.	1338	Genuine.
25.0	—17.5	—20.1	2.6	2.0	Light Straw..	Partial...	1339	"

2 GEORGE V., A. 1912

BULLETIN No. 217—

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.		
DISTRICT OF ST. HYACINTHE—							
1910.							
June 25	Strained Honey.	1340	L. Peloquin, St. Hyacinthe.	2 lb.	30	Stock de Daignault & Cie., St. Hyacinthe.	
" 27	"	1341	F. M. Chagnon, Sorel.	3 bots.	45	The T. Upton Co., Ltd., Hamilton.	Pure Clarified Honey.
" 27	"	1342	A. O. Comrie, St. François du Lac.	1½ lb.	45	Vendor	
" 30	"	1343	A. J. Boisvert, Plessisville.	25 oz.	26	Mde Vve Bedard, Lourdes.	
" 30	"	1344	A. W. Beausoleil, Richmond.	1½ lb.	23	Gunn, Langlois & Cie., Montreal.	
July 12	"	1345	Magasin Co-operatif, Thetford Mines.	2 bots.	50	Jacques Jarret, Charlesbourg.	
" 13	"	1346	Thos. Cameron, Lake Megantic.	2 "	40		Upton's Pure Clarified Honey
" 19	"	1347	O. Huard, St. Denis River Rich.	20 oz.	13	A. Girard, St. Denis.	

## DISTRICT OF MONTREAL—

June 17	Strained Honey.	39937	A. Rochon, 45 Prince Arthur E., Montreal.	3 jars.	30		
" 17	"	39938	F. Aubin & Co., St. Lawrence Market, Montreal.	3 "	45	Z. Limoges, Montreal.	
" 17	"	39939	T. Gougeon, 368 Dorchester W., Montreal.	3 "	45		Labelled Upton's Pure Clarified Honey.
" 20	"	39940	J. H. Giroux, St. Agathe de Monts.	3 "	30		Labelled Miel Canadian; marked compound.
July 5	"	39941	E. P. Dame, 312 Bleury, Montreal.	3 "	45	J. A. Vaillancourt, Montreal.	
" 5	"	39942	O. Martel, 166 Dorchester W., Montreal.	3 "	30	J. A. Perrault Cie, Montreal.	Labelled Miel Canadian Compound.
" 13	"	39943	Murphy Bros., 569 St. James E., Montreal.	3 "	45		
" 20	"	39944	S. L. Desaulniers, 427 Notre Dame W., Montreal.	2½ lb.	25		After purchase of sample vendor stated it was compound; sample from tin labelled Sirop Can. Composé.
" 21	"	39945	T. A. Wood & Co., 54 Aylmer st., Montreal.	3 jars.	60	Howe McIntyre Co., Montreal.	
" 21	"	39946	Longeway & Lewis, 305 St. Antoine, Montreal.	3 "	45		

## SESSIONAL PAPER No. 14

## STRAINED HONEY.

RESULTS OF ANALYSIS.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
Water, p.c.	Polarization at 20° C.			Cane Sugar by Claret For- mula, p.c.	Physical Characteristics.			
	Direct.	Invert.	Differ- ence.		Colour.	Granula- tion.		

J. C. ROULEAU, INSPECTOR—*Concluded.*

23·4	—17·2	—20·6	3·4	2·5	White.....	Complete.	1340	Genuine.
22·6	—17·0	—20·3	3·3	2·5	Dark straw..	" ..	1341	"
22·0	—10·5	—16·7	6·2	4·6	Light brown..	None.....	1342	"
24·8	—18·0	—23·5	5·5	4·1	" ..	" ..	1343	"
22·6	—15·8	—17·7	1·9	1·4	White.....	Complete.	1344	"
22·2	—4·7	—13·4	8·7	6·5	Pale straw....	None.....	1345	"
23·7	—17·9	—21·6	3·7	2·7	Light brown..	Partial...	1346	"
22·7	—15·3	—18·0	2·7	2·0	" ..	Complete.	1347	"

J. J. COSTIGAN, INSPECTOR.

35·1	—15·1	—16·9	1·8	1·3	Light straw...	Partial...	39937	Water high; water probably added; adulterated.
26·0	—14·8	—19·1	4·3	3·2	" ..	None.....	39938	Water high; otherwise genuine.
23·0	—15·8	—19·6	3·8	2·8	Dark straw....	Partial...	39939	Genuine.
28·3	+109·7	+91·0	18·7	13·9	Brown.....	None.....	39940	Sold as compound; illegal.
25·3	—17·1	—20·5	3·4	2·5	Dark straw....	Partial...	39941	Water high; otherwise genuine.
25·0	+112·4	+92·6	19·8	14·8	Light brown..	None.....	39942	Sold as compound; illegal.
28·2	—15·0	—17·7	2·7	2·0	Straw. . . .	Partial...	39943	Water high; otherwise genuine.
26·0	+76·7	+26·5	50·2	37·5	Light brown..	None.....	39944	Sold as compound; illegal.
25·5	—16·7	—19·4	2·7	2·0	White.....	Complete.	39945	Water high; otherwise genuine.
24·2	—14·0	—17·8	3·8	2·8	Light straw.	" ..	39946	Genuine.

2 GEORGE V., A. 1912  
BULLETIN No. 217—

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.		
DISTRICT OF OTTAWA—							
1910.							
June 11	Strained Honey.	43036	Allan Soper, Brockville.	3 bots.	45	J. Coon, Morton, Ont.	
" 15	" ..	43037	R. E. Powell, Elgin St., Ottawa.	3 "	75	Alex. McLaughlin	Labelled pure honey.
" 15	" ..	43038	J. C. Wilson, Elgin St., Ottawa.	3 "	60	Unknown.....	
" 15	" ..	43039	J. H. Laishley, 51 Main St., Ottawa.	3 "	75	Anstiss & Langdon, Ottawa.	Labelled Extracted Honey, W. T. Kincella, Cumberland, Ont.
" 15	" ..	43040	D. Seguin, Hull.....	3 "	75	H. N. Bate & Sons, Ottawa.	Labelled pure honey.
" 15	" ..	43041	O. Lemieux, Hull....	3 "	60	Anstiss & Langdon, Ottawa.	Labelled guaranteed pure honey, Peter Bourgeau, Luskville, P.Q.
" 15	" ..	43042	P. H. Charron, Hull.	3 "	60	Mr. Bourgeau, Mountain Road, Hull.	
" 15	" ..	43043	J. B. Kemp, Pembroke	3 "	45	F. J. Castle Co., Ottawa.	
" 25	" ..	43044	G. W. Armstrong, Cornwall.	3 "	90	J. H. Fickes, Mille Roche, Ont.	Labelled pure honey.
July 4	" ..	43045	Jas. H. Bradley, Prescott.	3 "	75	H. N. Bate & Sons, Ottawa.	

## DISTRICT OF KINGSTON—

June 16	Strained Honey.	45736	J. Redden, Kingston.	2 lbs.	45	Robert Shannon, Battersea.	
" 16	"	45737	J. McCulla, Kingston	1½ "	45	J. Y. Parkhill, Kingston.	
" 17	"	45738	A. Glover, Kingston.	1½ "	30	E. Blain, Ltd., Toronto.	'Anchor' brand.
" 17	"	45739	J. Gilbert, Kingston.	1½ "	45	R. A. Marleson, Cataraqui.	
" 17	"	45740	J. Campbell, Kingston	1½ "	45		Upton's pure clarified honey.
" 17	"	45741	E. Mullin, Kingston.	1½ "	60	Guee's, Ltd., Toronto	
" 20	"	45742	F. Perry, Napanee.	1½ "	45	Unknown	
" 21	"	45743	A. C. Babcock, Lindsay.	2 "	75	W. Ryan, Toronto	
" 20	"	45744	W. Patterson, Belleville.	1½ "	45	Otron, Belleville.	
" 21	"	45745	J. Flurey, Lindsay.	2 "	45	G. Cornel, Lindsay.	

## DISTRICT OF TORONTO—

June 18	Strained Honey.	45077	Hamilton Grocery, 124 Jas. St. North, Hamilton.	3 cans	45	Unknown	Vendor buys in bulk and fills his own cans.
" 21	"	45078	C. F. Thorne, 107 Nassau St., Toronto	3 "	45	A. Moyer, Toronto.	Labelled Pure Honey.

## SESSIONAL PAPER No. 14

## STRAINED HONEY.

RESULTS OF ANALYSIS.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
Water, p. c.	Polarization at 20° C.			Cane Sugar by Clerget for- mula, p. c.	Physical Characteristics.			
	Direct.	Invert.	Differ- ence.		Colour.	Grannla- tion.		

## J. A. RICKEY, INSPECTOR.

22.2	-12.3	-15.4	3.1	2.3	Straw . . . . .	Complete.	43036	Genuine.
22.0	-15.1	-19.1	4.0	3.0	White . . . . .	"	43037	"
22.3	+ 2.5	-21.7	24.2	18.0	Dark straw . . .	Slight . . . .	43038	Cane sugar high ; adulterated
22.9	-11.9	-17.9	6.0	4.5	Straw . . . . .	Partial . . . .	43039	Genuine
21.7	-15.6	-19.1	3.5	2.8	Light straw . . .	None . . . . .	43040	"
23.4	- 8.2	-17.9	9.7	7.2	Brown . . . . .	Slight . . . .	43041	"
21.5	- 9.1	-19.8	10.7	8.0	White . . . . .	Complete . . .	43042	"
21.9	-12.8	-18.5	5.7	4.3	Light brown . . .	Partial . . . .	43043	"
17.4	-12.0	-15.4	3.4	2.5	Straw . . . . .	Complete . . .	43044	"
22.4	-15.1	-19.1	4.0	3.0	" . . . . .	None . . . . .	43045	"

## JAS HOGAN, INSPECTOR.

23.8	-12.4	-16.0	3.6	2.6	Light straw . . .	Partial . . . .	45736	Genuine.
24.0	-12.8	-18.8	6.0	4.5	" . . . . .	" . . . . .	45737	"
25.4	-15.7	-18.0	2.3	1.8	" . . . . .	" . . . . .	45738	Water high, otherwise genuine
24.0	-14.0	-19.2	5.2	3.9	" . . . . .	None . . . . .	45739	Genuine.
24.1	-14.6	-20.8	6.2	4.6	Dark straw . . .	Partial . . . .	45740	"
22.8	-19.3	-21.6	2.3	1.8	White . . . . .	Complete . . .	45741	"
22.9	-15.9	-19.5	3.6	2.6	" . . . . .	" . . . . .	45742	"
24.0	-11.5	-18.6	7.1	5.3	Dark straw . . .	Partial . . . .	45743	"
22.6	-11.6	-16.6	5.0	3.7	Light straw . . .	Complete . . .	45744	"
23.4	-17.9	-21.3	3.4	2.5	Straw . . . . .	None . . . . .	45745	"

## H. J. DAGER, INSPECTOR.

22.1	-18.4	-22.0	3.6	2.6	Straw . . . . .	Partial . . . .	45077	Genuine.
21.5	-18.3	-21.7	3.4	2.5	Dark straw . . .	None . . . . .	45078	"



2 GEORGE V., A. 1912

BULLETIN No. 217—

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.		

## DISTRICT OF TORONTO—

1910.							
June 29	Strained Honey.	45079	Bruce & Sanderson, 377, 379 Parliament St., Toronto.	3 Cans	60	John J. Fee, Toronto	Labelled Pure Honey.
July 4	"	45081	E. B. Farewell, Orillia	3 "	45	Geo. Laing, Milton.	Warranted Pure Honey.
" 5	"	45082	R. W. Armstrong, Bracebridge.	3 "	45	Isaac Langstroth, Arkona.	Vendor buys in bulk and fills his own cans.
" 8	"	45083	M. Pearce, Parry Harbour.	3 "	75	Rutherford & Marshall Co., Toronto.	Guaranteed Pure Honey.
" 8	"	45084	J. H. Badger, Parry Sound.	3 "	50	Eby Blain, Ltd., Toronto.	'Anchor' Brand Pure White Clover Honey.

## DISTRICT OF LONDON—

July 23	Strained Honey.	44602	Chas. S. Andrews, Seaforth.	2 lbs.	30	W. D. Hoag, Seaforth.	.....
" 23	"	44607	Mathew Williams, Seaforth.	1½ "	25	William Hastings, Seaforth.	.....
" 26	"	44609	Geo. McLennon, Clinton.	3 "	30	Alex. Smith, Kippen, Ont.	.....
June 25	"	44755	J. F. Clifton, Alliston	3 bots.	45	Jas. Lumbers, Toronto.	.....
" 27	"	44759	Jackson & Son, Guelph	3 tins.	30	Unknown	.....
" 28	"	44765	Barnsdale Trading Co., Stratford.	3 bots.	36	Wm. Morden, Downey Township.	.....
July 13	"	44775	James Cutt, Blythe, Ont.	1 lb.	12	James Dobie, Auburn.	.....
" 13	"	44777	T. W. Scott, Blythe, Ont.	3 pots.	40	Unknown	.....
" 14	"	44781	Robert Johnston, Wingham.	3 "	60	Eby Blain & Co., Toronto.	.....
" 19	"	44788	Pickard & Fleming, St Marys.	2 jars.	45	Edward Adams, London, Ont.	.....
" 20	"	44795	Thos. Jones, Mitchell.	3 pots.	45	W. H. Gillard & Co., Hamilton.	.....

## DISTRICT OF WINDSOR—

June 21	Strained Honey.	42326	J. J. Foster, Leaming, ton.	3 bots.	45	Upton's Hamilton	Labelled Upton's Hamilton.
" 22	"	42331	Jno. McCorrie & Son, Chatham.	3 jars.	30	W. A. Chrysler, Chatham.	Warranted pure honey.
" 24	"	42334	W. Teeple, London	3 "	45	Flavelle Silverwood, Ltd., London.	Labelled guaranteed pure honey
" 24	"	42337	T. A. Rowat, London South.	3 "	50	W. Coleman, Birr...	.....
" 25	"	42339	A. R. Bong, London South.	3 "	45	Upton, Hamilton....	Labelled Upton's pure Clover Honey.
" 27	"	42341	F. C. Toon, London.	3 "	45	Unknown	.....

SESSIONAL PAPER No. 14

## STRAINED HONEY.

RESULTS OF ANALYSIS.						No. of Sample.	Remarks and Opinion of the Chief Analyst.	
Water, p.c.	Polarization at 20° C.			Cane Sugarly Claret For- mula, p.c.	Physical Characteristics.			
	Direct.	Invert.	Differ- ence.		Colour.			Granula- tion.

H. J. DAGER, INSPECTOR—*Concluded.*

21.7	-15.1	-18.0	2.9	2.1	Straw . . . .	None . . . .	45079	Genuine.
23.4	-16.1	-19.8	3.7	2.7	" . . . . .	" . . . .	45081	"
20.9	-14.4	-20.3	5.9	4.4	Light straw . .	Slight . . . .	45082	"
22.2	-10.8	-19.5	8.7	6.5	" . . . . .	" . . . .	45083	"
22.3	-19.4	-22.6	3.2	2.3	Straw . . . . .	None . . . .	45084	"

T. KIDD, INSPECTOR.

21.5	-15.0	-19.8	4.8	3.6	Light straw . .	Slight . . . .	44602	Genuine.
21.5	-18.2	-21.2	3.0	2.2	Straw . . . . .	None . . . .	44607	"
23.2	-15.0	-18.8	3.8	2.8	" . . . . .	" . . . .	44609	"
21.1	-16.0	-20.5	4.5	3.3	" . . . . .	" . . . .	44755	"
19.7	-18.5	-21.0	2.5	1.9	Light straw . .	Slight . . . .	44759	"
24.0	-15.0	-18.3	3.3	2.5	" . . . .	" . . . .	44765	"
20.9	-15.1	-20.4	5.3	4.0	" . . . .	None . . . .	44775	"
20.8	-19.1	-20.7	1.6	1.2	White . . . . .	Complete . .	44777	"
19.7	-17.6	-22.4	4.8	3.6	Straw . . . . .	Partial . . .	44781	"
22.7	-17.1	-19.2	2.1	1.6	Light straw . .	" . . . .	44788	"
20.6	-10.5	-19.8	9.3	6.9	Dark straw . .	None . . . .	44795	"

JNO. TALBOT, INSPECTOR.

22.5	-13.8	-19.0	5.2	3.9	Straw . . . . .	Partial . . .	4232	Genuine.
21.6	-13.1	-18.4	5.3	4.0	" . . . . .	None . . . .	42331	"
24.2	-16.0	-18.7	2.7	2.0	" . . . . .	Partial . . .	42334	"
22.5	-12.4	-16.4	4.0	3.0	White . . . . .	Complete . .	42337	"
22.5	-13.8	-19.9	6.1	4.5	Straw . . . . .	Partial . . .	42339	"
24.0	-16.9	-20.5	3.6	2.7	White . . . . .	Complete . .	42341	"

2 GEORGE V., A. 1912

BULLETIN No 217—

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.		

## DISTRICT OF WINDSOR—

1910.							
June 27	Strained Honey.	42346	Thos. W. Sanborne & Son, London.	3 jars.	45	F. J. Miller, London	'Crest' Brand Honey from Vauxhall Apiaries, London.
" 27	"	42349	H. Geach, London	3 "	45	" "	Labelled Choice extracted Honey, Vauxhall Apiaries, London.
" 28	"	42420	Duncan Bros., London	3 "	40	Unknown.....	
" 28	"	42424	Fulcher & Northmore, London.	3 "	45	Upton's, Hamilton..	

## DISTRICT OF MANITOBA—

June 20	Strained Honey.	43521	F. Fawley, 1,084 Main St., Winnipeg.	3 pkgs	75	Foster & Holferman, Brantford, Ont.	Extracted honey
" 20	"	43522	Coyle Bros, Winnipeg	3 "	60	G. A. Deadman, Brussels, Ont.	Deadman's pure honey.
" 21	"	43523	P. H. Menlove, Main St. N., Winnipeg.	3 "	75	G. F. & J. Galt, Manitoba.	Pure strained White Clover Honey.
" 21	"	43524	Templeton & Co., 1,028 Main St. N., Winnipeg.	3 "	60	Unknown.....	
" 21	"	43525	Moffett & Douglas, Selkirk Ave., Winnipeg.	3 "	60		Upton's pure Clover Honey.
" 22	"	43526	H. Slasor, Main St., Winnipeg.	3 "	60	Jabin Marrin Co., Ltd., Winnipeg.	
" 27	"	43527	G. T. Hoyes, Elmwood	3 "	75		Upton's pure Clover Honey.
" 27	"	43528	J. G. McGrath, Elmwood.	3 "	75	Bright, Emery Co., Winnipeg.	Ontario Clover Honey.
" 28	"	43529	J. Paterson, Winnipeg	3 "	75	The White Star Mfg. Co., Winnipeg.	White Star Honey.
" 28	"	43530	Heaney Bros., Portage Ave., Winnipeg.	3 "	75	Foster & Holterman, Portage Ave., Winnipeg.	

## DISTRICT OF CALGARY—

July 5	Strained Honey.	43771	Craddock & Viner, Lethbridge.	3 bots.	1.35	Pacific Coast Syrup Co., San Francisco, Cal.	
" 13	"	43772	R. Dunn, Medicine Hat.	2 "	1.00	Codville Co., Ltd., Winnipeg.	
" 13	"	43773	The D. Milne Co., Ltd., Medicine Hat.	3 jars.	75	F. W. Fearman, Hamilton, Ont.	
" 22	"	43774	J. T. Macdonald, Calgary.	3 bots.	75	T. Upton, Ltd, Hamilton, Ont.	
" 22	"	43775	Speer Bros., Calgary.	3 "	75	" "	
Aug. 8	"	43776	C. E. Compton, Wetaskiwin.	3 "	75	Balfour Smyth, Hamilton, Ont.	

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## STRAINED HONEY.

RESULTS OF ANALYSIS.						No. of Sample.	Remarks and Opinion of the Chief Analyst.	
Water, p. c.	Polarization at 20° C.			Cane Sugar by Clegg's For- mula, p. c.	Physical Characteristics.			
	Direct.	Invert.	Differ- ence.		Colour.			Granula- tion.

JNO. TALBOT, INSPECTOR—*Concluded.*

23.0	-12.1	-17.3	5.2	3.9	Straw . . . . .	None . . . . .	42346	Genuine.
23.3	-12.7	-17.6	4.9	3.7	" . . . . .	" . . . . .	42349	"
24.8	-11.8	-16.3	4.5	3.3	Light straw . . .	" . . . . .	42420	"
22.8	-13.3	-19.5	6.2	4.1	" . . . . .	Partial . . . . .	42424	"

A. C. LARIVIERE, INSPECTOR.

21.1	-16.9	-19.6	2.7	2.0	White . . . . .	Complete.	43521	Genuine.
21.4	-14.1	-21.0	6.9	5.1	Light straw . . .	None . . . . .	43522	"
23.2	-17.6	-23.8	6.2	4.6	Dark straw . . .	" . . . . .	43523	"
20.9	-17.0	-20.9	3.9	2.9	White . . . . .	Complete.	43524	"
21.7	-16.2	-20.0	3.8	2.8	" . . . . .	Partial . . . . .	43525	"
20.4	-18.2	-20.9	2.7	2.0	Light straw . . .	Complete.	43526	"
21.4	-14.8	-19.5	4.7	3.5	Straw . . . . .	Slight . . . . .	43527	"
26.1	+13.5	-20.2	33.7	25.15	Light straw . . .	None . . . . .	43528	Water and cane sugar content high. Adulterated.
22.7	- 7.7	-15.8	8.1	6.0	Dark straw . . .	" . . . . .	43529	Genuine.
21.8	-16.3	-19.8	3.5	2.8	White . . . . .	Complete.	43530	"

R. W. FLETCHER, INSPECTOR.

22.6	-16.3	-24.6	8.3	6.2	Straw . . . . .	None . . . . .	43771	Genuine.
21.7	-17.5	-21.6	4.1	3.1	White . . . . .	Complete.	43772	"
22.1	-16.2	-19.0	2.8	2.1	Light straw . . .	" . . . . .	43773	"
24.7	-17.8	-21.2	3.4	2.5	White . . . . .	Partial . . . . .	43774	"
22.0	-14.8	-19.1	4.3	3.2	" . . . . .	" . . . . .	43775	"
23.0	-15.3	-21.2	5.9	4.4	Dark straw . . .	None . . . . .	43776	"

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BULLETIN No. 217—

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.		

## DISTRICT OF CALGARY—

1910.							
Aug. 9	Strained Honey.	43777	Douglas Bros., Ltd., Edmonton.	3 jars.	75	Mrs. Thos. Henderson, Strathcona, Alta.	.....
" 9	"	43778	A. H. Rickards & Co., Strathcona.	3 bots.	75	T. Upton & Co., Ltd., Hamilton, Ont.	.....
" 10	"	43779	Aitken Bros., Edmon- ton.	3 "	75	O. L. Charlton Co., Vancouver, B.C.	.....
" 10	"	43780	Hallier & Aldridge, Edmonton.	3 "	75	T. Upton & Co., Ltd., Hamilton, Ont.	.....

## DISTRICT OF VANCOUVER—

June 21	Strained Honey.	37971	J. Jackson, Haney, B.C.	3 jars.	75	O. L. Charlton, Van- couver, B.C.	'Nectar' brand, Guaranteed Strictly Pure.
" 21	"	37972	Coulter & Berry, Lang- ley, B.C.	3 "	75	John Wilson, Lang- ley Prairie.	.....
" 23	"	37973	E. S. McBride, Port Guichon.	3 "	75	L. Guichon Estate..	Guaranteed pure
" 23	"	37974	W. T. Walker, Steves- ton, B.C.	3 "	1.05	Bishop & Co., U.S..	Pure Honey ....
" 23	"	37975	Georgia Grocery, Van- couver, B.C.	3 "	1.05	Pacific Coast Syrup Co.	'Wild Rose' brand.
July 18	"	37976	H. A. Edgett & Co., Vancouver, B.C.	3 bots.	75	Vendors.....	Pure Honey....
" 18	"	37977	Geo. Wagg, Vancou- ver.	3 "	60	Jarcia & Maggini, San Francisco.	.....
" 18	"	37978	Wm. Clark, Vancou- ver.	3 "	75	Seattle & Puget Sound Packing Co.	'Liberty' brand pure Honey.
" 18	"	37979	Foran Bros., Vancou- ver.	3 "	75	Unknown.....	.....
" 18	"	37980	Woodwards Dept., Store, Vancouver, B.C.	3 "	1.05	Chas. Heaton & Co., London.	Pure Honey ....

## DISTRICT OF VICTORIA—

June 20	Strained Honey.	44897	Windsor Grocery Co., Victoria.	3 jars.	1 05	Pacific Coast Syrup Co., San Francisco, Cal.	'Wild Rose' brand.
" 20	"	44898	The Saunders Grocery Co., Victoria.	3 "	75	Bishop & Co., San Francisco, Cal.	Bishop's Califor- nian pure honey
" 21	"	44899	H. O. Kirkham, Vic- toria.	3 "	75	O. L. Charlton, Vic- toria, B.C.	Californian Hon- ey.
" 22	"	44900	Wm. B. Hall, Victoria	3 "	60	T. B. Pearson, Linden Apiary, Victoria, B.C.	.....
" 22	"	44901	Copas & Young, Vic- toria.	3 "	75	Balfour, Smye & Co., Hamilton.	Put up in jars by vendor.
" 23	"	44902	F. E. Plummer, Vic- toria.	3 "	75	O. L. Charlton, Van- couver, B.C.	'Nectar' brand Chilli-wack Honey.
" 24	"	44903	Erskine & Co., Vic- toria.	3 "	75	" " ..	.....
" 27	"	44904	D. H. Ross & Co., Victoria.	3 "	60	Balfour, Smye & Co., Hamilton, Ont.	Put up in jars by vendor.
" 28	"	44905	Woods & White, Vic- toria.	3 "	75	O. L. Charlton, South Vancouver, B.C.	Best Australian Honey.
" 28	"	44906	Scott & Peden, Vic- toria.	3 "	75	O. L. Charlton, Vic- toria, B.C.	Pure Honey.



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## STRAINED HONEY.

RESULTS OF ANALYSIS.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
Water, p.c.	Polarization at 20° C.			Cane Sugar by Clerget Formula, p.c.	Physical Characteristics.			
	Direct.	Invert.	Difference.		Colour.	Granulation.		
R. W. FLETCHER, INSPECTOR— <i>Concluded.</i>								
22.0	—14.1	—19.0	4.9	3.7	Straw.....	None.....	43777	Genuine.
23.1	—15.2	—21.3	6.1	4.5	" .....	Partial....	43778	"
25.7	—19.6	—23.2	3.6	2.6	Dark straw...	None.....	43779	Water high, otherwise genuine
22.0	—13.8	—21.4	7.6	5.5	Light straw...	Slight...	43780	Genuine.
J. F. POWER, INSPECTOR.								
22.3	—17.8	—21.2	3.4	2.5	Light brown..	None.....	37971	Furfural reaction with aniline acetate, Ley's test, reddish brown. Doubtful.
21.4	— 6.3	—11.4	5.1	3.8	Straw.....	" .....	37972	Genuine.
21.3	—15.9	—19.4	3.5	2.5	White.....	Complete.	37973	"
21.4	—18.9	—24.2	5.3	4.0	Dark straw...	Partial....	37974	"
21.8	—18.3	—26.2	7.9	5.8	Straw.....	None.....	37975	"
23.3	—17.8	—23.4	5.6	4.2	Light straw...	Complete.	37976	"
21.7	—12.6	—24.2	11.6	8.6	" ..	" ..	37977	"
24.8	—11.9	—22.4	10.5	7.8	" ..	Partial....	37978	"
23.3	—17.8	—22.8	5.0	3.7	Dark straw...	" ..	37979	"
25.0	—13.2	—17.6	4.4	3.3	" ..	" ..	37980	"
D. O'SULLIVAN, INSPECTOR.								
21.7	—13.6	—23.9	10.3	7.7	Straw.....	None.....	44897	Genuine.
19.5	—15.5	—23.4	7.9	5.8	" .....	" .....	44898	"
22.6	—19.5	—26.8	7.3	5.4	Light straw...	" .....	44899	"
19.5	—10.2	—13.9	3.7	2.7	" ..	Complete.	44900	"
18.7	—18.6	—21.9	3.3	2.4	Light brown..	Partial..	44901	"
24.1	—18.5	—23.6	5.1	3.8	Straw.. ..	None.....	44902	"
21.2	—20.2	—23.3	3.1	2.3	Dark straw..	Slight. ...	44903	"
21.3	—21.8	—27.9	6.1	4.5	White.....	Complete.	44904	"
21.5	—19.7	—25.5	5.8	4.3	Straw.....	None.....	44905	"
22.1	—15.8	—20.5	4.7	3.5	Light straw...	" .....	44906	"

APPENDIX M.

BULLETIN No. 218—ICE CREAM.

OTTAWA, November 17, 1910.

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

SIR,—I have the honour to send you herewith a report upon one hundred and thirty samples of Ice Cream, collected in thirteen of the inspectoral Districts of Canada, during September and October last.

The following definitions and standards for Ice Cream are now made legal in consonance with section 26 of the Adulteration Act.

1. *Ice Cream* is a frozen product, made from cream and sugar, with or without harmless flavouring and colouring materials, and with or without gelatin, gum tragacanth, or other harmless stiffening materials, in amount less than two (2) per cent, and contains not less than fourteen (14) per cent of milk fat.

2. *Fruit Ice Cream* is a frozen product, made as described under Ice Cream, but containing sound, clean, and mature fruit. It must contain not less than twelve (12) per cent of milk fat.

3. *Nut Ice Cream* is a frozen product, made as described under Ice Cream, but containing sound, non-rancid nuts. It must contain not less than twelve (12) per cent of milk fat.

It is undeniably a fact that the most essential and costly constituent of ice-cream is the actual cream therein contained. This is at the same time the most nutritive component of the food stuff, and is the prime consideration in virtue of which physicians prescribe ice cream as an important article of diet in many cases of convalescence. It seems just, that a minimum amount of milk fat should be required by law to be present in ice cream; and the report now submitted, together with previous reports (See Bulletins 162 and 190) serves to show that 14 per cent of milk fat is a reasonable demand. The sale of an ice cream having a lower content of milk fat, is not illegal, provided that the article is sold with a true statement, by label or otherwise, of its actual fat content.

This reading may, I believe, be correctly inferred from the definition of cream, where it is expressly stated that;— ‘Cream when guaranteed to contain another percentage of milk fat than 18 per cent, must conform to such guarantee.’

The present report may be summarized as follows:—

Samples not analysed for reasons given.....	5
" fully up to or above standard.....	77
" nearly up to standard. ....	11
" below standard of 14 p. c.....	31
" greatly below standard .....	6
Total .....	130

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It thus appears that 88 samples, or 70 per cent of those analysed, reached the standard of 14 per cent.

In August, 1908, (Bull. 162), out of 80 samples analysed, 40 samples or 50 per cent of the collection, reached this standard of 14 per cent milk fat. In August, 1909, (Bull. 190), out of 129 samples of ice cream, 78 samples or 60 per cent.

## SUMMARY.

Inspection of Ice Cream.	August, 1908.	August, 1909.	Sept., 1910.
Total number analysed.....	80	129	125
Up to standard.....	40	78	88
Percentage of collection.....	50	60	70

It thus appears that there has been a very marked improvement in the quality of Canadian Ice Cream during the past two years. A careful examination of the accompanying report shows that the better grades of ice cream contain above 20 per cent of milk fat; some of them reaching nearly 30 per cent.

Standards for Ice Cream come into force (under section 26 of the Adulteration Act) on the 12th December of this year.

For the reason that these standards were not effective at the time of collection of the samples herein reported, I have considered it unnecessary to describe any of them as adulterated; but careful inspection of the tables will show that several samples are of very poor quality.

I beg to recommend the 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.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1910.							
Oct.	6	Ice Cream..	42101 D. R. Ross, Halifax, N.S.	1 qt. .	40	Vendor.....	
"	6	" ..	42102 " " ..	1 " ..	40	" .....	
"	6	" ..	42103 Scotia Pure Milk Co., Halifax, N.S.	1 " ..	35	" .....	
"	6	" ..	42104 " " ..	1 " ..	35	" .....	
"	6	" ..	42105 " " ..	1 " ..	35	" .....	
"	6	" ..	42106 Wm. Patrick....	1 " ..	50	" .....	
"	6	" ..	42107 " .....	1 " ..	50	" .....	
"	7	" ..	42108 Teas & Co.....	1 " ..	40	" .....	
"	7	" ..	42109 " .....	1 " ..	40	" .....	
"	7	" ..	42110 Miss Albro, (Colonial Tea Room, Halifax, N.S.	1 " ..	50	D. R. Ross, Hal- ifax.	Manufacturer... ..
"	7	" ..	42111 C. H. Ward, Halifax, N.S.	1 " ..	50	Scotia Pure Milk Co., Halifax.	" .....
"	7	" ..	42112 P. Settle, Dartmouth, N.S.	1 " ..	50	" " ..	F. Dares, Dart- mouth.
"	7	" ..	42113 Miss Walker, Dartmouth, N.S.	1 " ..	50	" " ..	Manufacturers....

DISTRICT OF PRINCE EDWARD ISLAND—

Sept.	22	Ice Cream..	45911 Jas. Dougherty & Co., Charlottetown.	1 qt. .	50	Vendors.....	
"	22	" ..	45912 Sam. Hollett, Charlotte- town.	1 " ..	45	Vendor.....	
"	22	" ..	45913 Norman Brown, Char- lottetown.	1 " ..	45	" .....	
"	22	" ..	45914 E. J. DesRoches, Char- lottetown.	1 " ..	50	" .....	
"	22	" ..	45915 J. Vatcher, Charlottetown	1 " ..	50	" .....	
"	22	" ..	45916 Mrs. W. F. Carter, Char- lottetown.	1 " ..	50	" .....	
"	23	" ..	45917 M. C. Martin, Kensington	1 " ..	45	M. Martin..	
"	24	" ..	45918 J. H. Lock, Summerside.	1 " ..	35	Vendor.....	
"	24	" ..	45919 E. A. Burt, Summerside.	1 " ..	40	" .....	
"	24	" ..	45920 F. Mason, Charlottetown.	1 " ..	38	" .....	

## SESSIONAL PAPER No. 14

## ICE CREAM.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Non-fat Solids.	Total Solids.	Fat.	Thickeners.		

## R. J. WAUGH, INSPECTOR.

	p. c.	p. c.	p. c.			
Vanilla.....	18·80	31·25	12·45	.....	42101	Fat below standard.
Strawberry.....				.....	42102	No report.*
Vanilla.....	15·69	24·56	8·87	Gelatine.....	42103	Fat below standard.
Peach....	18·11	29·11	11·00	.....	42104	"
Strawberry.....	17·18	30·58	13·40	.....	42105	"
Pine Apple.....	18·32	40·52	22·20	.....	42106	Up to standard in fat.
Chocolate.....	21·63	36·51	14·88	Starch.....	42107	"
Vanilla.....	19·84	27·17	7·33	Gelatine.....	42108	Fat much below standard.
Ginger.....	21·16	28·98	7·82	".....	42109	"
Strawberry.....	20·01	33·15	13·14	.....	42110	Fat slightly below standard.
".....	17·19	32·52	15·33	Gelatine.....	42111	Up to standard in fat.
Vanilla.....	15·92	24·82	8·90	".....	42112	Fat below standard.
Strawberry.....	16·97	30·15	13·18	".....	42113	"

## THEO. MOORE, INSPECTOR.

.....	13·19	25·87	11·68	.....	45911	Fat below standard.
.....	20·10	22·38	2·28	.....	45912	Fat much below standard.
.....	21·32	23·90	2·58	Gelatine.....	45913	"
.....	15·39	24·92	9·53	.....	45914	Fat below standard.
.....	14·06	30·80	16·74	.....	45915	Up to standard in fat.
.....	16·01	34·41	18·40	Starch.....	45916	"
.....	17·07	29·50	12·43	.....	45917	Fat below standard.
.....	16·88	30·70	13·82	.....	45918	Fat slightly below standard.
.....	15·59	26·72	11·13	.....	45919	Fat below standard.
.....	17·73	27·45	9·72	.....	45920	"

\* Both samples broken in transit.



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—

1910.							
Sept. 22	Ice Cream..	45339	R. H. Cotter, St. John, N.B.	1 qt..	40	Vendor.....	
" 22	" ..	45340	T. J. Phillip, St. John, N.B.	1 " ..	40	" .....	
" 22	" ..	45341	A. W. Baird, St. John, N.B.	1 " ..	40	Maritime Dairy Co. Sussex, N.B.	
" 23	" ..	45342	J. S. Vincent, (White Catering Co.) St. John, N.B.	1 " ..	50	Vendor.....	
" 23	" ..	45343	G. D. Wannamaker, St. John, N.B.	1 " ..	50	" .....	
" 23	" ..	45344	A. J. Tufts, St. John, N.B.	1 " ..	60	" .....	
Oct. 4	" ..	45345	Lloyd W. Vanwart, Fredericton, N.B.	1 " ..	50	" .....	
" 5	" ..	45346	R. E. Holyoke, Woodstock, N.B.	1 " ..	40	" .....	
" 17	" ..	45347	Maritime Dairy Co., Ltd., Sussex, N.B.	1 " ..	50	Vendors.....	
" 24	" ..	45348	The Royal Fruit & Confectionery Co., St. John, N.B.	1 " ..	50	" .....	

DISTRICT OF QUEBEC—

Sept. 7	Ice Cream..	36463	Octave Vezina & Cie., 460 Rue St. Joseph, Quebec	6gls's.	30	Vendors....	
" 7	" ..	36464	Clement Fackini, 785 Rue St. Valier, Quebec.	7 " ..	35	Vendor.....	
" 7	" ..	36465	" " " " " "	7 " ..	35	" .....	
" 7	" ..	36466	Edouard Boilard, 836 Rue St. Valier, Quebec.	6 " ..	30	" .....	
" 7	" ..	36467	Gen. Jobin, 350 Rue St. Joseph, Quebec.	6 " ..	30	" .....	
" 8	" ..	36468	Jos. Vaillancourt, 348 Rue St. Joseph, Quebec.	6 " ..	30	" .....	
" 8	" ..	36469	Wilfred Hamelin, 300 Rue St. Joseph, Quebec.	6 " ..	30	" .....	
" 8	" ..	36470	Jos. Lauson, 269 Rue St. Joseph, Quebec.	6 " ..	30	" .....	
" 8	" ..	36471	Feharos & Parjarts, 264½ Rue St. Joseph, Quebec	6 " ..	30	Vendors.....	
" 8	" ..	36472	P. Demêtre, 74 Rue St. Jean, Quebec.	6 " ..	30	Vendor. ....	

DISTRICT OF ST. HYACINTHE—

Sept. 20	Ice Cream.	41053	G. A. McLean, Sherbrooke	1 qt..	50	Vendor.....	
" 20	" ..	41054	Roomanos & Alexander Bros., Sherbrooke.	1 " ..	50	Vendors.....	
" 20	" ..	41055	M. E. Woodard, Sherbrooke.	1 " ..	50	Vendor.....	
" 20	" ..	41056	Boutraes & Shamyeh, Wellington St., Sherbrooke.	1 " ..	50	Vendors..	

## SESSIONAL PAPER No. 14

## ICE CREAM.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Non-fat Solids.	Total Solids.	Fat.	Thickeners.		

## J. C. FERGUSON, INSPECTOR.

	p. c.	p. c.	p. c.			
.....	14·32	37·22	22·90	.....	45339	Up to standard in fat.
.....	26·96	34·87	7·91	.....	45340	Fat below standard.
.....	18·98	38·10	19·12	.....	45341	Up to standard in fat.
Strawberry.....				.....	45342	No report.*
.....	22·17	31·71	9·54	Starch.....	45343	Fat below standard.
Vanilla .....	18·13	33·18	15·05	Gum Tragacanth..	45344	Up to standard in fat.
Small amounts of gelatine added.	21·63	38·40	16·77	Gelatine.....	45345	"
.....	19·35	40·67	21·32	.....	45346	"
Vanilla.....	16·22	36·23	20·01	.....	45347	"
Strawberry.....	15·47	35·65	20·18	.....	45348	"

## E. BELAND, INSPECTOR.

.....	15·52	32·20	16·68	Gelatine.....	36463	Up to standard in fat.
.....	21·21	25·86	4·65	.....	36464	Fat much below standard
.....	24·50	36·16	11·66	.....	36465	Fat below standard.
.....	23·05	32·13	9·08	.....	36466	"
.....	19·55	29·87	10·32	.....	36467	"
.....	23·74	35·16	11·42	.....	36468	"
.....	23·62	53·06	29·41	.....	36469	Up to standard in fat.
.....	23·53	37·11	13·58	.....	36470	Fat slightly below standard
.....	18·13	34·77	16·64	.....	36471	Up to standard in fat.
.....	20·82	34·18	13·36	.....	36472	Fat slightly below standard

## J. J. COSTIGAN, ACTING INSPECTOR.

.....	18·41	34·87	16·46	Starch and Gum Tragacanth.	41053	Up to standard in fat.
.....	17·30	32·04	14·74	.....	41054	"
.....	19·33	35·40	16·07	.....	41055	"
.....	18·59	36·14	17·55	.....	41056	"

\* Bottle samples fermented and spoiled in transit or in storage.

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BULLETIN No. 218—

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—

1910.							
Sept. 20	Ice Cream..	41057	G. Panos, Sherbrooke...	1 qt..	40	Vendor.....	
" 20	" ..	41058	J. E. Jannelle, Richmond, P.Q.	1 " ..	50	" .....	
" 20	" ..	41059	George Baril, Richmond, P.Q.	1 " ..	50	" .....	
Oct. 4	" ..	41060	Xenos & Xenos, Granby, P.Q.	1 " ..	30	Vendors.....	
" 4	" ..	41061	Vasillon Bros., Granby, P.Q.	1 " ..	40	" .....	
" 10	" ..	41062	Daignault & Cie, St. Hyacinthe.	1 " ..	50	" .....	

## DISTRICT OF MONTREAL—

Sept. 14	Ice Cream..	40729	Standard Dairy Co., Lagauchetiere St., Montreal	1 qt..	50	Vendors.....	
" 14	" ..	40730	W. J. Logan, 214 Sherbrooke St., Montreal.	1 " ..	50	Vendor.....	
" 14	" ..	40731	Jno. D. Duncan Co., 218 Mountain St., Montreal	1 " ..	60	Vendors.....	
" 14	" ..	40732	Imperial Ice Cream Co., Britannia St., Montreal.	1 " ..	40	" .....	
" 16	" ..	40733	Montreal Dairy Co., 315 Lagauchetiere St., Montreal.	1 " ..	25	" .....	
" 22	" ..	40734	C. Gladionos, 807 St. Lawrence B., Montreal	1 " ..	50	Vendor.....	
" 22	" ..	40735	Poulos & Rometus, 464 St. Denis St., Montreal.	1 " ..	50	Vendors.....	
" 22	" ..	40736	John Grevakos, 461 Ontario E., Montreal	1 " ..	40	Vendor.....	
" 22	" ..	40737	W. Scott, 726 St. Catherine E., Montreal.	1 " ..	50	" .....	
" 22	" ..	40738	Jos. Gallo, 406 St. Catherine E., Montreal.	1 " ..	40	" .....	

## DISTRICT OF OTTAWA—

Sept. 13	Ice Cream..	43141	Jos. Seguin, Vankleek Hill.	1 qt..	50	Ottawa Dairy Co., Ottawa.	Manufacturers ...
" 14	" ..	43142	Mrs. Laurie, Perth, Ont.	1 " ..	50	Vendor.....	
" 14	" ..	43143	Wm. Anderson, Perth, Ont.	1 " ..	50	" .....	
" 15	" ..	43144	T. D. Sayer, Aylmer Park, P.Q.	1 " ..	50	" .....	
" 15	" ..	43145	C. H. Roger, Britannia, Ont.	1 " ..	50	" .....	
" 16	" ..	43146	T. Burns, Sparks St., Ottawa.	1 " ..	50	Ottawa Dairy Co., Ottawa.	Manufacturers....
" 16	" ..	43147	W. Nixon, Sparks St., Ottawa.	1 " ..	50	Vendor.....	
" 16	" ..	43148	W. A. Henderson, Drug-gist, Ottawa.	2 bks.	50	Ottawa Dairy Co., Ottawa.	Manufacturers..
" 16	" ..	43149	Ottawa Dairy Co., Ottawa	1 qt..	50	" .....	
" 20	" ..	43150	S. Whitney, Prescott	1 " ..	50	Vendor.....	

SESSIONAL PAPER No. 14  
ICE CREAM.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Non-fat Solids.	Total Solids.	Fat.	Thickeners.		
J. J. COSTIGAN, ACTING INSPECTOR— <i>Concluded.</i>						
	p. c.	p. c.	p. c.			
.....	15.25	34.06	18.81	.....	41057	Up to standard in fat
.....	18.30	38.20	19.90	.....	41058	"
.....	18.13	36.05	17.92	.....	41059	"
.....	21.80	34.01	12.21	.....	41060	Fat below standard.
.....	14.59	34.41	19.82	.....	41061	Up to standard in fat.
.....	27.37	41.17	13.80	.....	41062	Fat slightly below standard

## J. J. COSTIGAN, INSPECTOR.

.....	16.59	33.06	16.47	.....	40729	Up to standard in fat.
.....	21.18	40.88	19.70	.....	40730	"
.....	20.90	41.52	20.62	Gelatine.....	40731	"
.....	16.84	36.75	19.91	Small amt. gelatine	40732	"
.....	22.82	38.15	15.33	Starch.....	40733	"
.....	19.28	35.06	15.78	.....	40734	"
.....	20.46	39.86	19.40	.....	40735	"
.....	21.17	34.24	13.07	.....	40736	Fatslightlybelowstandard
.....	18.27	35.42	17.15	.....	40737	Up to standard in fat.
.....	20.94	39.54	18.60	Gum tragacanth..	40738	"

## J. A. RICKEY, INSPECTOR.

.....	19.45	36.42	16.97	Gelatine.....	43141	Up to standard in fat.
.....	25.46	32.58	7.12	.....	43142	Fat much below standard.
.....	20.69	30.77	10.08	Starch.....	43143	Fat below standard.
.....	25.94	35.00	9.06	.....	43144	"
.....	20.99	38.69	17.70	.....	43145	Up to standard in fat.
.....	18.05	37.11	19.06	Gelatine.....	43146	"
.....	19.21	39.09	19.88	.....	43147	"
.....	19.24	36.70	17.46	Gelatine†.....	43148	"
.....	18.31	34.75	16.44	".....	43149	"
.....	18.47	26.67	8.20	Starch.....	43150	Fat below standard.

† Contains nuts and strawberry pulp.

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 KINGSTON—

1910.							
Oct.	4	Ice Cream .	46534 H. L. Prince, Kingston..	1 qt..	50	Vendor . . . . .	
"	4	" ..	46535 F. Hoag, Kingston .....	1 " ..	50	" .....	
"	4	" ..	46536 Geo. Masoud, Kingston..	1 " ..	50	" .....	
"	4	" ..	46537 T. Sakell, Kingston ...	1 " ..	50	" .....	
"	4	" ..	46538 M. P. Pappas, Kingston.	1 " ..	35	" .....	
"	4	" ..	46539 W. H. Pritshard, Kings- ton.	1 " ..	40	" .....	
"	4	" ..	46540 J. Lackie, Kingston.. ...	1 " ..	50	" .....	
"	4	" ..	46541 G. W. Mahood, Kingston	1 " ..	50	" .....	
"	4	" ..	46542 N. R. Grimms, Kingston.	1 " ..	40	" .....	
"	4	" ..	46543 A. J. Rees, Kingston....	1 " ..	50	" .....	

DISTRICT OF TORONTO—

Sept.	21	Ice Cream..	45189 J. H. Assen, 84 James St.	1 qt..	25	Vendor.....	
"	21	" ..	45190 Jas. Crawford, 34 King St. North, Hamilton.	1 " ..	40	" .....	
"	21	" ..	45191 Burk Bros., Mulberry St., Hamilton.	1 " ..	25	Vendors .....	
Oct.	3	" ..	45192 L. O. Buist, 93 Emerald St. South, Hamilton.	1 " ..	25	Vendor .....	
"	3	" ..	45193 The Pure Milk Co. Ltd., 151 John St. North, Hamilton.	1 " ..	25	Vendors.....	
"	3	" ..	45194 The Union Dairy Co., 12 Breadalbane St. Toronto.	1 " ..	25	" .....	
"	4	" ..	45195 Devonshire Mfg. Co., 65 St. Nicholas St. Toronto.	1 " ..	25	" .....	
"	4	" ..	45196 City Dairy Co. Ltd., Spaldina Crescent, Toronto.	1 " ..	40	" .....	
"	4	" ..	45197 Wm. Neilson, Ltd., 307 Gladstone Av., Toronto.	1 " ..	20	" .....	
"	4	" ..	45198 The Patterson Candy Co., 7 Mc. Caul St., Toronto.	1 " ..	25	" .....	



SESSIONAL PAPER No. 14

## ICE CREAM.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Non-fat Solids.	Total Solids.	Fat.	Thickeners.		

JAS. HOGAN, INSPECTOR.

	p. c.	p. c.	p. c.			
.....	19·81	37·28	17·47	.....	46334	Up to standard in fat.
.....	19·94	35·04	15·10	.....	46535	"
.....	22·19	39·11	16·92	.....	46536	"
.....	13·20	40·43	27·23	.....	46537	"
.....	20·44	39·44	19·00	.....	46538	"
.....	*	.....	.....	.....	46539	No report.
.....	16·01	29·21	13·20	Gelatine.....	46540	Fat slightly below stand- ard.
.....	16·86	29·86	13·00	.....	46541	"
.....	17·84	38·51	20·67	Starch .....	46542	Up to standard in fat.
.....	20·68	39·62	18·94	.....	46543	"

H. J. DAGER, INSPECTOR.

.....	20·93	31·97	11·04	Gelatine .....	45189	Fat below standard.
.....	17·05	36·47	19·42	.....	45190	Up to standard in fat.
.....	17·87	35·60	17·73	.....	45191	"
Vanilla.....	17·13	36·71	19·58	.....	45192	"
" .....	21·73	38·76	17·03	.....	45193	"
Strawberry .....	18·31	31·97	13·66	Gelatine.....	45194	Fat slightly below standard
Vanilla .....	17·58	28·50	10·92	" .....	45195	Fat below standard.
" .....	20·20	38·30	18·10	Gum tragacanth .	45196	Up to standard in fat.
" .....	16·47	36·28	19·81	Gelatine.....	45197	"
" .....	22·50	39·14	16·64	.....	45198	"

\* Both samples broken in transit.

14—16½

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—

1910							
Sept. 12	Ice Cream..	42427	J. E. Boomer, London, Ont.	1 qt.	40	Vendor .....	
" 12	" ..	42428	Olympia Candy Co., London, Ont.	" ..	25	Vendors.....	
" 12	" ..	42429	J. Fawkes & Son, London, Ont.	3 bots.	25	" .....	
" 12	" ..	42430	Geo. Peters, London, Ont.	" ..	40	Vendor.....	
" 12	" ..	42431	C. J. Leach, London, Ont.	" ..	25	" .....	
" 13	" ..	42438	J. W. Griffith, London, Ont.	" ..	40	" .....	
" 13	" ..	42439	P. Hisskos, London East.	" ..	Nil.	" .....	

DISTRICT OF CALGARY—

Sept. 19	Ice Cream..	43934	F. Rochon, Calgary .....	1 qt.	30	Vendor.....	
" 19	" ..	43935	Calgary Bakers, Ltd., Calgary.	" ..	50	Vendors.....	
" 20	" ..	43936	C. J. Winn, Calgary.....	" ..	50	F. Rochon.....	
" 20	" ..	43937	J. G. Freeze, " .....	" ..	50	" .....	
" 20	" ..	43938	F. Rochon, " .....	" ..	50	Vendor.....	
" 20	" ..	43939	The Boston, " .....	" ..	50	" .....	
" 20	" ..	43940	Maple Leaf, " .....	" ..	50	" .....	
" 20	" ..	43941	The Palmetto Bakery, Calgary.	" ..	50	" .....	
" 20	" ..	43942	MacFarlane & White, Calgary.	" ..	50	Vendors .....	
" 20	" ..	43943	R. H. Elkin, Calgary....	" ..	50	Vendor.....	

DISTRICT OF VANCOUVER—

Oct. 17	Ice Cream..	38074	Royal Candy Factory, Vancouver.	1 qt.	60	Vendors.....	
" 17	" ..	38075	Carson & Elder, Vancouver	1 "	50	" .....	
" 17	" ..	38076	Empress Confectionery, Vancouver.	1 "	60	" .....	
" 17	" ..	38077	Frisco Candy Co., Vancouver.	1 "	50	" .....	
" 17	" ..	38078	Del's Confectionery, Vancouver.	1 "	50	" .....	
" 18	" ..	38079	Richmond Dairy Co., Vancouver.	1 "	50	" .....	
" 18	" ..	38080	Geo. S. Kerr & Co., Vancouver.	1 "	50	" .....	
" 18	" ..	38081	City Dairy Co., Vancouver.	1 "	50	" .....	
" 18	" ..	38082	Harrison's Drug Store, Vancouver.	1 "	50	City Dairy Co....	
" 18	" ..	38083	L. J. Gleeson, Vancouver	1 "	50	Richmond Dairy..	

## SESSIONAL PAPER No. 14

## ICE CREAM.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Non-fat Solids.	Total Solids.	Fat.	Thickeners.		

## JNO. TALBOT, INSPECTOR.

	p.c.	p.c.	p.c.			
.....	25.45	39.00	13.55	Gelatine.....	42427	Fat slightly below stan- dard.
.....	18.71	41.14	22.43	Starch .....	42428	Up to standard in fat.
.....	27.95	40.68	12.73	" .....	42429	Fat below standard.
.....	21.24	34.79	13.46	.....	42430	Fat slightly below stan- dard.
.....	23.94	34.03	10.09	.....	42431	Fat below standard.
.....	20.42	36.66	16.24	.....	42438	Up to standard in fat.
.....	22.61	32.66	10.05	Starch.....	42439	Fat below standard.

## R. W. FLETCHER, INSPECTOR.

.....	24.90	36.32	11.42	Gelatine and gum.	43934	Fat below standard.
.....	20.25	34.42	14.17	.....	43935	Up to standard in fat.
.....	25.99	40.20	14.21	Gelatine and gum.	43936	"
.....	24.12	38.66	14.54	" ..	43937	"
.....	25.78	38.06	12.28	" ..	43938	Fat below standard.
.....	15.68	32.83	17.15	.....	43939	Up to standard in fat.
.....	16.38	27.71	11.33	.....	43940	Fat below standard.
.....	22.40	39.64	17.24	.....	43941	Up to standard in fat.
.....	19.42	38.16	18.74	.....	43942	"
.....	25.04	37.48	12.44	.....	43943	Fat below standard.

## J. F. POWER, INSPECTOR.

.....	20.00	37.32	17.32	Gelatine.....	38074	Up to standard in fat.
.....		*		.....	38075	No report.
.....	21.50	37.40	15.90	Gelatine. . . . .	38076	Up to standard in fat.
.....	21.80	37.70	15.90	.....	38077	"
.....	21.92	39.60	17.68	.....	38078	"
.....	20.09	31.20	11.11	Starch ..	38079	Fat below standard.
.....	18.25	33.50	15.15	.....	38080	Up to standard in fat.
.....	20.06	39.66	19.60	.....	38081	"
.....	19.58	36.00	16.42	.....	38082	"
.....	22.00	36.10	14.00	Starch.....	38083	"

\* Samples fermented.

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—

1910							
Sept. 26	Ice Cream..	44927	A. Vasselatos, Victoria, B.C.	1 qt.	50	.....	Royal Dairy, Victoria.
" 26	" ..	44928	H. A. Lilly, Victoria, B.C.	1 "	50	Vendors.....	..
" 26	" ..	44929	G. H. Keays, Victoria, B.C.	1 "	55	.....	Royal Dairy, Victoria.
" 26	" ..	44930	A. Bancroft, Victoria, B.C.	1 "	50	.....	Vict. Creamery & Milk Supply Co., Victoria, B.C.
" 27	" ..	44931	Geo. Praguiss, Victoria, B.C.	1 "	50	.....	"
" 29	" ..	44932	Harcop & Antipas, Victoria, B.C.	1 "	50	Vendors.....	.....
" 29	" ..	44933	Jno. Balmar, Victoria, B.C.	1 "	50	.....	Royal Dairy, Victoria, B.C.
" 29	" ..	44934	Vict. Creamery & Milk Supply Co., Victoria, B.C.	1 "	25	Vendors.....	.....
" 30	" ..	44935	Royal Dairy, Victoria, B.C.	1 "	50	" .....	.....
" 36	" ..	44936	A. Westindale, Victoria, B.C.	1 "	50	.....	Royal Dairy, Victoria, B.C.

## SESSIONAL PAPER No. 14

## ICE CREAM

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Non-fat Solids.	Total Solids.	Fat.	Thickeners.		

D. O'SULLIVAN, INSPECTOR.

	p.c.	p.c.	p.c.			
.....	17.68	35.55	17.87	.....	44927	Up to standard in fat.
.....		*		.....	44928	No report.
.....	17.39	36.86	19.47	.....	44929	Up to standard in fat.
.....	17.96	35.40	17.14	Gelatine . . . . .	44930	"
.....	17.20	34.35	17.15	" . . . . .	44931	"
.....	20.78	38.22	17.24	" . . . . .	44932	"
.....	19.18	35.44	16.26	.....	44933	"
.....	17.96	36.86	18.90	Gelatine . . . . .	44934	"
.....	18.43	40.48	22.05	. . . . .	44935	"
.....	18.62	34.82	16.20	.....	44936	"

\* Samples fermented.



## APPENDIX N.

## BULLETIN No. 219—BUTTER.

OTTAWA, November 28, 1910.

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

SIR,—I have the honour to hand you a report upon two hundred and eleven (211) samples of butter, collected throughout the Dominion in June and July of this year.

The standard for butter which has just been made legal, is as follows :—

*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 eighty-two and five-tenths (82·5) per cent of milk fat, and not more than sixteen (16) per cent of water. Butter may also contain added colouring matter of harmless character.

This involves the definition for milk fat, which is as follows :—

*Milk fat, Butter fat*, is the fat of milk and has a Reichert-Meissl number not less than twenty-four (24) and a specific gravity not less than 0·905  $\frac{(40^{\circ} \text{C.})}{(40^{\circ} \text{C.})}$

One hundred and ninety-five (195) samples or ninety-two (92) per cent of the whole, meet the requirements of the above standards for butter.

Of the remainder, fourteen (14) samples are slightly below the required content of milk fat. In only one instance (No. 45732, Peterboro') is this due to excess of water. It will be noted that the limit for water in butter is fixed at 16 per cent. This is consistent with the requirements of the butter Act of 1903. If then, a maximum limit of water is present in butter, the greatest amount of salt plus curd, which may be present is one and one half (1·5) per cent. As a matter of fact, the average water content of Canadian butter is about ten (10) per cent while salt is usually about three to four per cent, leaving the butter fat content much above the minimum 82·5 per cent required by law. In most of the fourteen cases now referred to, the amount of butter fat is very little lower than the legal minimum, and in only ten cases is the difference more than one (1) per cent. While this reduction of the butter fat below the legal limit, owing to excessive amounts of water and salt, is probably due to mere carelessness in manufacture, I have found it necessary to describe all cases in which the deficiency exceeds one per cent as being technically adulterated.

In two instances the fat fails to respond to the requirements for genuine milk fat. These samples are adjudged to be adulterated by admixture of foreign fat.

## SESSIONAL PAPER No. 14

The report may be summarized as follows :—

Genuine Butter.....	195
Technically Adulterated....	10
Slightly below Standard..	4
Adulterated.....	2
Total.....	211

I beg to recommend the publication of this report as Bulletin 219.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,  
*Chief Analyst.*

2 GEORGE V., A. 1912  
BULLETIN No. 219—

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.	

## DISTRICT OF NOVA SCOTIA—

1910						
July 11	Butter . . . .	42051	R. B. Adams & Co., Halifax, N.S.	1 lb.	27	E. N. Thomas, Sackville, N.S.
" 11	" . . . .	42052	P. T. Shea, Halifax, N.S.	1 "	25	J. L. Patterson, Hants Co., N.S.
" 11	" . . . .	42053	Rooney & Lovett, Halifax, N.S.	1 "	25	Angus Ross, Stewiacke, N.S.
" 11	" . . . .	42054	Smith & Proctor, Halifax, N.S.	1 "	24	T. Knowles, Halifax, N.S.
" 11	" . . . .	42055	H. L. Willison, Halifax, N.S.	1 "	25	A. A. Hill, Londonderry, N.S.
" 11	" . . . .	42056	Wentzells, Ltd., Halifax, N.S.	1 "	25	Acadia Canning & Creamery Co., Kingston, N.S.
" 12	" . . . .	42057	O. J. Lyons, Kentville, N.S.	1 "	20	Unknown.
" 12	" . . . .	42058	B. H. Dodge, Kentville, N.S.	1 "	20	W. N. Fosbery, Kentville, N.S.
" 13	" . . . .	42059	Wentworth Stores, Windsor, N.S.	1 "	23	Mrs. Dow, Wentworth, N.S.
" 13	" . . . .	42060	Shand Bros., Windsor, N.S.	1 "	25	H. Robinson, Hants Co., N.S.
" 13	" . . . .	42061	John Riley, Windsor, N.S.	1 "	25	Mrs. J. Brown, Newport, N.S.
" 13	" . . . .	42062	W. H. Worth, Windsor, N.S.	1 "	22	Mrs. W. Philips, Hants Co., N.S.
" 13	" . . . .	42063	Murphy & Demont, Windsor, N.S.	1 "	23	W. Wilson, Falmouth, N.S.
" 14	" . . . .	42064	Moffett Bros., Amherst, N.S.	1 "	25	Jos. Colpitts, Pt. de Bute, N.B.
" 14	" . . . .	42065	Barry B. Bent, Amherst, N.S.	1 "	20	Unknown.

## DISTRICT OF PRINCE EDWARD ISLAND—

June 20	Butter . . . .	38740	C. C. Carlton, Souris.	1 lb.	22	Mrs. Jas. McDonald, Rola Bay.
" 20	" . . . .	38741	A. Currie & Co., Souris.	1 "	25	J. C. Bushey, New Zealand, P.E.I.
" 21	" . . . .	38742	Mathew & McLean, Souris.	1 "	25	Mrs. Jackson, Bay Fortune.
" 21	" . . . .	38743	Cox Bros., Morell.	1 "	20	Mrs. Warren Webster, Bangor, P.E.I.
" 21	" . . . .	38744	H. D. McEwan, Morell.	1 "	22	Mrs. Jno. Phalen, Morell.
" 21	" . . . .	38745	J. W. McEwan, Lot 40.	1 "	22	Mrs. McGrath, Morell.
" 23	" . . . .	38746	J. H. McGougan, Hunter River.	1 "	19	Mrs. McGougan, Hunter River.
" 23	" . . . .	38747	Ewan Campbell, North Wiltshire.	1 "	20	Mrs. Hugh Campbell, Wiltshire
" 23	" . . . .	38748	R. Tuplin & Co., Kensington...	1 "	24	A. Glover, Kensington.....
" 23	" . . . .	38749	D. McKenzie, Kensington. ....	1 "	22	Mrs. Wm. Painter, Kensington.
" 24	" . . . .	38750	Brace & McKay, Summerside	1 "	20	Unknown.....
" 24	" . . . .	38751	Sinclar & Stewart, Summerside.	1 "	20	Mrs. Geo. Schurman, New Annan.

## SESSIONAL PAPER No. 14

## BUTTER.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Moisture.	Salt.	Butyro-refractometer reading at 40° C.,	Dry Saltless Butter.		

## J. R. WAUGH, INSPECTOR.

	p. c.	p. c.		p. c.		
.....	10.68	1.52	41.9	87.80	42051	Genuine.
.....	8.78	2.34	43.0	88.88	42052	"
.....	8.02	4.16	43.0	87.82	42053	"
.....	6.72	2.92	44.3	90.36	42054	Reichert-Meissl, value = 29.14. Genuine.
.....	9.86	7.94	43.9	82.20	42055	Slightly below standard.
.....	8.74	3.92	43.1	87.34	42056	Genuine.
.....	8.28	4.30	43.8	87.42	42057	"
.....	10.28	0.54	43.3	89.18	42058	"
.....	12.90	3.10	43.2	84.00	42059	"
.....	11.32	4.18	44.1	84.50	42060	"
.....	11.40	1.92	42.3	86.68	42061	"
.....	7.54	2.56	43.3	89.90	42062	"
.....	11.88	2.80	42.5	85.32	42063	"
.....	10.66	3.58	42.3	85.76	42064	"
.....	7.56	5.68	43.8	86.76	42065	"

## THEO. MOORE, INSPECTOR.

.....	8.24	5.98	44.7	85.78	38740	Reichert-Meissl, value = 28.18. Genuine.
.....	11.12	4.20	41.5	84.68	38741	Genuine.
.....	9.38	3.54	42.1	87.08	38742	"
.....	8.22	2.64	43.0	89.14	38743	"
.....	7.88	7.58	43.1	83.54	38744	"
.....	15.20	0.84	43.3	83.96	38745	"
.....	7.92	1.60	43.2	90.48	38746	"
.....	10.16	5.78	43.8	84.06	38747	"
.....	8.32	7.68	41.3	84.00	38748	"
.....	12.96	7.98	42.1	79.06	38749	Below standard ; technically adulterated.
.....	8.56	6.40	43.5	85.04	38750	Genuine.
.....	11.94	3.20	42.0	84.86	38751	"

2 GEORGE V., A. 1912  
BULLETIN No. 219—

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.	

## DISTRICT OF PRINCE EDWARD ISLAND—

1910.						
July	4	Butter.....	38752 E. Toombs, Charlottetown.....	1 lb ..	20	Mrs. Hughes, Winsloe.....
"	4	" .....	38753 F. G. Holman, Charlottetown..	1 " ..	20	Unknown.....
"	4	" .....	38754 A. Gates & Co., Charlottetown.	1 " ..	20	Mrs. Newson, Cornwall, P.E.I.

## DISTRICT OF NEW BRUNSWICK—

June	15	Butter .....	45261 M. E. Grass, St. John, N.B....	1 lb ..	25	H. Hammond, St. John, N. B. .
"	16	" .. ..	45262 Herbert S. Francis, St. John, N.B.	1 " ..	26	Jas. P. Lawson, Belle Isle, N.B.
"	17	" .....	45263 Chas. L. Doherty, Fairville, N.B.	1 " ..	28	John Donovan, Cork Settlement, N.B.
"	20	" .....	45264 J. E. Quinn, St. John, N.B....	1 " ..	23	Purdy Bros., Sackville, N.B....
"	20	" .....	45265 Chas. A. Clark, St. John, N.B.	1 " ..	25	Mrs. Wright, Golden Grove, N.B.
"	23	" .....	45266 H. McGrattan & Sons, St. George, N.B.	1 " ..	22	Jas. McGarrigle, St. George Parish, N.B.
"	23	" .....	45267 Milne, Coutts & Co., Ltd., St. George, N.B.	1 " ..	25	Mrs. Jno. Campbell, St. George Parish, N.B.
July	5	" .. ..	45268 W. A. Estabrook, Fredericton, N.B.	1 " ..	25	Stafford Barker, Prince William, N.B.
"	6	" .....	45269 John Graham Estate, Woodstock, N.B.	1 " ..	23	Jos. Wolverton, Northampton, N.B.
"	7	" .....	45270 Benjamin Beveridge, Andover, N.B.	1 " ..	20	Mrs. Samuel Works, Andover, N.B.
"	8	" .....	45271 F. D. Sadler, Perth, N. B. . .	1 " ..	20	Miss Maria Craig, Perth Parish, N.B.
"	9	" .....	45272 P. D. Burgein, Grand Falls, N.B.	1 " ..	25	Mrs. Edward, Quillett, Grand Falls Parish, N.B.
"	19	" .....	45273 King, Asbell & Co., Sussex, N.B.	1 " ..	24	Rowland Chestnut, Kings Co., N.B.
"	19	" .....	45274 Sussex Mercantile Co., Ltd., Petitcodiac, N.B.	1 " ..	25	Mrs. Jno. DeWolfe, Petitcodiac, N.B.

## DISTRICT OF QUEBEC—

June	16	Butter.....	36408 M. Barnard, Stadacona.....	1 lb.	26	Emond & Cote, Quebec... ..
"	16	" .....	36409 Pierre Belanger & Cie., Stadacona.	1 " ..	28	Emond & Cote, Quebec.....
"	16	" .....	36410 Francois Cleche, Stadacona..	1 " ..	26	Octave Jacque, Quebec.....
"	16	" .....	36411 Napoleon Bigouette, Stadacona.	1 " ..	25	Maranda Marche, Champlain, Quebec.
"	16	" .....	36412 Jos. E. Plamondon, Stadacona.	1 " ..	25	Marier, Rue Dorchester, Quebec.
"	16	" .....	36413 Alphonse Martin, Stadacona....	1 " ..	26	Emond & Cote, Quebec.....
"	16	" .....	36414 Jos. Lajeunesse, Limoilou.....	1 " ..	25	Unknown.....
"	16	" .. ..	36415 E. P. Bérubé, Limoilou.....	1 " ..	25	Damase Rouleau, Quebec. ....



## SESSIONAL PAPER No. 14

## BUTTER.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Salt.	Butyro-refractometer reading at 10° C.	Dry Saltless Butter.		

*Continued.*

	p. c.	p. c.		p. c.		
.....	13·74	5·32	41·9	80·94	38752	Below standard ; technically adulterated.
.....	10·28	3·18	42·5	86·54	38753	Genuine.
.....	10·62	2·64	42·0	86·74	38754	"

## J. C. FERGUSON, INSPECTOR.

.....	8·16	4·14	43·9	87·70	45261	Genuine.
.....	10·88	6·40	43·3	82·72	45262	"
.....	10·12	5·48	44·1	84·40	45263	"
.....	6·50	3·76	43·8	89·74	45264	"
.....	13·34	1·76	42·9	84·90	45265	"
.....	7·22	5·24	44·4	87·54	45266	Reichert-Meissl, value = 31·20. Genuine.
.....	10·74	2·54	43·0	86·72	45267	Genuine.
.....	9·00	2·22	43·8	88·78	45268	"
.....	10·46	2·52	42·8	87·62	45269	"
.....	12·10	10·16	43·3	77·74	45270	Below standard ; technically adulterated.
.....	10·14	8·72	42·8	81·16	45271	" "
.....	10·62	6·62	43·0	82·76	45272	Genuine.
.....	8·90	4·08	43·0	87·02	45273	"
.....	10·30	2·52	43·0	87·18	45274	"

## E. BELAND, INSPECTOR.

.....	11·20	3·00	43·2	85·80	36408	Genuine.
.....	13·22	2·66	43·3	84·12	36409	"
.....	11·96	2·92	43·1	85·12	36410	"
.....	8·90	5·78	42·3	85·32	36411	"
.....	11·28	1·84	42·6	86·88	36412	"
.....	13·10	1·42	43·3	85·48	36413	"
.....	5·56	3·26	44·5	91·18	36414	Reichert-Meissl, value = 27·77. Genuine.
.....	8·80	5·92	43·1	85·28	36415	Genuine.

2 GEORGE V., A. 1912

BULLETIN No. 219—

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.	
DISTRICT OF QUEBEC—						
1910						
June 16	Butter.....	36416	Albert A. Gingras, Limoilou....	1 lb..	25	Unknown.....
" 16	" .....	36417	Hidallard Savard, Limoilou....	1 "	25	Unknown.....
" 16	" .....	36418	Veuve A. Roy, Limoilou. ....	1 "	28	Unknown. ....
" 16	" .....	36419	Jos. L. Letourneau, 135 Rue du Pont, Quebec.	1 "	26	J. Parent, Charlebourg.....
" 16	" .....	36420	Jos. Gregoire, 128 Rue du Pont, Quebec.	1 "	26	Jos. Lafont, Stonham.....
" 16	" .....	36421	Emile Paquet, 142 Rue du Roi, Quebec.	1 "	24	Unknown.....
" 16	" .....	36422	Guillaume Gingras, 268 Rue du Roi, Quebec.	1 "	22	Unknown.....

## DISTRICT OF ST. HYACINTHE—

June 22	Butter .....	1322	N. Larivée, Farnham. ....	1 lb.	25	Unknown.. ....
" 23	" .....	1323	R. E. Bertrand, Magog. ....	1 "	25	A. Poirier, Oliver Corner.....
" 23	" .....	1324	Tremblay & Cie, St. Catherine de Hatley.	1 "	25	Mde. Vve. Jos. Belanger, St. Catherine de Hatley.
" 27	" .....	1325	Mde. Grandchamp, Sorel. ....	1 "	23	Mde. Turgeon. ....
30	" .....	1326	J. D. Lacerte & Cie., Plessisville.	1 "	20	J. B. Goselin, Plessisville.....
July 12	" .....	1327	Alph Blais, Thetford Mines....	1 "	22	Unknown.....
" 12	" .....	1328	C. Cote, D'Israëli. ....	1 "	25	Alph Roy, D'Israëli.....
" 12	" .....	1329	A. A. Jacques, Garthby.....	19 oz.	29	Geo. Blonin, Ham. Nord.....
" 13	" .....	1330	J. E. A. Roger, Lac Megantic..	1 lb ..	21	Unknown.....
" 13	" .....	1331	Robert Scott, Scotstown .....	18 oz..	22	O. Mathew, Scotstown.....
" 14	" .....	1332	A. Bonrret, La Patrie.....	1 lb ..	25	Unknown.....
" 14	" .....	1333	Jos. Demers, Notre Dame des Bois.	1 " ..	25	Mde. A. Boisvert, N. D. des Bois.
" 19	" .....	1334	J. A. Phaneuf, St. Antoine River, Rich.	1 " ..	20	Vendor .....
" 21	" .....	1335	H. Clapwood, St. Jean.....	1 " ..	25	Unknown.....

## DISTRICT OF MONTREAL—

June 23	Butter.....	39922	Vian & Co., 801 St. Lawrence B., Montreal.	1 lb ..	24	.....
" 23	" .....	39923	St. Lawrence Grocery Co., 395 St. Lawrence B., Montreal.	1 " ..	25	.....
" 23	" .....	39924	N. Morin & Co., Bonsecours Market, Montreal.	1 " ..	25	.....

## SESSIONAL PAPER No. 14

## BUTTER.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Salt.	Butyro-refractometer reading at 40° C.	Dry Saltless Butter.		

Continued.

	p. c.	p. c.		p. c.		
.....	8.66	2.38	42.2	88.96	36416	Genuine.
.....	10.98	4.08	43.7	84.94	36417	"
.....	9.54	3.36	43.9	87.10	36418	"
.....	12.14	5.52	42.3	82.34	36419	"
.....	13.78	1.06	44.0	85.16	36420	"
.....	9.84	2.92	44.3	87.24	36421	"
.....	12.28	2.52	42.5	85.20	36422	"

## J. C. ROULEAU, INSPECTOR.

.....	14.48	1.60	42.9	83.92	1322	Genuine.
.....	8.79	2.00	44.0	89.30	1323	"
.....	10.52	1.80	43.8	57.68	1324	"
.....	10.22	1.50	42.0	88.28	1325	"
.....	11.80	3.94	42.3	84.26	1326	"
.....	10.80	5.12	44.2	84.18	1327	Reichert-Meissl, value = 31.46. Genuine.
.....	15.46	4.44	42.2	81.10	1328	Slightly below standard, and technically adulterated.
.....	8.56	5.26	43.3	86.18	1329	Genuine.
.....	11.30	1.86	43.0	86.84	1330	"
.....	14.74	2.42	44.9	82.84	1331	Reichert-Meissl, value = 26.92. Genuine.
.....	10.04	1.50	44.1	88.46	1332	Genuine.
.....	7.86	1.68	43.3	90.46	1333	"
.....	11.54	3.50	41.5	84.96	1334	"
.....	10.16	2.06	43.0	87.78	1335	"

## J. J. COSTIGAN, INSPECTOR.

.....	14.58	1.82	41.9	83.60	39922	Genuine.
Corona brand....	13.72	2.64	44.0	83.64	39923	"
.....	12.88	1.66	45.0	85.46	39924	Reichert-Meissl, value = 27.36. 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.	
DISTRICT OF MONTREAL—						
1910.						
June 23	Butter.....	39925	S. Beaulieu, Bonsecours Market, Montreal.	1 lb ..	26	Thomas Bros., St. Thomas, Ont.
" 23	" .....	39926	" " ..	1 " ..	24	.....
" 23	" .....	39927	N. Lafortune, Bonsecours Market, Montreal.	1 " ..	25	.....
" 23	" .....	39928	U. Ethier, Bonsecours Market, Montreal.	1 " ..	25	Laporte et frere, Joliette, P.Q..
July 7	" .....	39929	S. Goodman & Son, 11 Lagauchetiere St. W., Montreal.	1 " ..	28	Hislop & Hunter, Montreal....
" 7	" .....	39930	R. Bernard, 91 Lagauchetiere St. E., Montreal.	1 " ..	27	.....
" 7	" .....	39931	A. Delisle, St. Antoine Market, Montreal.	1 " ..	25	.....
" 7	" .....	39932	Geo. Falle, St. Antoine Market, Montreal.	1 " ..	24	.....
" 7	" .....	39933	N. Deschenes, St. Antoine Market, Montreal.	1 " ..	25	.....
" 7	" .....	39934	H. Martel, 809 St. James St., Montreal.	1 " ..	25	Z. Limoge, Montreal.....
" 7	" .....	39935	Jos. St. Jean, Lachine, P.Q....	1 " ..	24	.....
" 7	" .....	39936	M. Beaudoin, Lachine, P.Q....	1 " ..	27	.....
DISTRICT OF OTTAWA—						
June 11	Butter.....	43021	Wm. Lorimer, Brockville....	1 lb ..	25	Unknown.....
" 25	" .....	43022	Wm. L. Smith, Cornwall. ....	1 " ..	25	Gunn's, Toronto .....
" 25	" .....	43023	A. Edwards, Cornwall.....	1 " ..	25	MacDonald, St. Andrews .....
" 28	" .....	43024	Mullin Bros., Morrisburg ....	1 " ..	25	Unknown.....
" 23	" .....	43025	J. D. McDonald, Morrisburg...	1 " ..	25	Vendor.....
July 15	" .....	43026	P. Brankin, By Ward Market, Ottawa.	1 " ..	22	Unknown.....
" 15	" .....	43027	E. Gougeon, By Ward Market, Ottawa.	1 " ..	23	" .....
" 15	" .....	43028	S. Diamend, By Ward Market, Ottawa.	1 " ..	23	" .....
" 15	" .....	43029	P. Glavey & Son., By Ward Market, Ottawa.	1 " ..	23	" .....
" 15	" .....	43030	Mrs. Lunny, By Ward Market, Ottawa.	1 " ..	25	Mr. Perkins.....
" 16	" .....	43031	McDonald Bros., Gladstone Ave. Ottawa.	1 " ..	25	A. Doyle, Herberts Corners....
" 16	" .....	43032	Jas. Leaver, Ottawa. ....	1 " ..	23	Unknown.....
" 16	" .....	43033	J. Millar, Ottawa.....	1 " ..	25	Wm. Mills, Gladstone Ave., Ottawa.
" 16	" .....	43034	L. Malette, Dalhousie St., Ottawa.	1 " ..	25	Unknown.....
" 16	" .....	43035	P. Service, Cumberland St., Ottawa.	1 " ..	24	" .....

SESSIONAL PAPER No. 14

## BUTTER.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Salt.	Butyro-refractometer reading at 40° C.	Dry Saltless Butter.		

*Continued.*

	p. c.	p. c.		p. c.		
.....	12.56	5.60	43.5	81.84	39925	Slightly below standard.
.....	10.70	2.28	43.0	87.02	39926	Genuine.
.....	10.50	2.44	42.8	87.06	39927	"
.....	13.84	1.48	43.2	84.58	39928	"
.....	14.18	2.58	42.9	83.24	39929	"
.....	10.94	3.04	43.1	86.02	39930	"
.....	7.72	5.96	44.0	86.32	39931	"
.....	10.86	3.20	43.2	85.94	39932	"
.....	9.96	4.70	43.4	85.34	39933	"
.....	7.48	2.32	43.0	90.20	39934	"
.....	11.78	1.98	43.8	86.24	39935	"
.....	12.08	3.72	42.5	84.20	39936	"

## J. A. RICKEY, INSPECTOR.

.....	15.38	0.62	42.7	84.00	43021	Genuine.
.....	8.24	3.30	42.9	88.46	43022	"
.....	10.54	3.18	43.0	86.28	43923	"
.....	8.64	5.62	43.6	85.74	43024	"
.....	10.16	5.84	43.0	84.00	43025	"
.....	8.68	1.06	43.6	90.26	43026	"
.....	8.94	2.98	44.1	88.08	43027	Reichert-Meissl, value = 29.31. Genuine.
.....	8.78	3.44	44.2	87.78	43028	Reichert-Meissl, value = 29.42. Genuine.
.....	6.54	2.70	44.8	90.76	43029	Reichert-Meissl, value = 20.60. Adulterated.
.....	10.48	1.92	41.7	87.60	43030	Genuine.
.....	11.16	4.44	43.9	84.40	43031	"
.....	11.48	2.00	43.8	86.52	43032	"
.....	14.64	5.05	43.3	80.31	43033	Below standard : technically adulterated.
.....	12.46	6.24	43.8	81.30	43034	Slightly below standard and technically adulterated.
.....	10.76	0.86	43.9	83.38	43035	Genuine.



2 GEORGE V., A. 1912

BULLETIN No. 219—

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.	
DISTRICT OF KINGSTON—						
1910.						
June 16	Butter.....	45721	P. A. Haffner, Kingston.....	1 lb.	25	Eastern Dairy School, Kingston
" 16	" .....	45722	A. B. Gage, Kingston.....	1 "	27	B. Keeler, Battersea. ....
" 20	" .....	45723	R. Richardson, Napanee.....	1 "	25	Mrs. Schormer.....
" 20	" .....	45724	J. Paisley, Napanee.....	1 "	25	Mrs. Shearman.....
" 20	" .....	45725	R. Elvins, Belleville.....	1 "	25	Unknown.....
" 20	" .....	45726	A. G. Vermilyea, Belleville....	1 "	25	" .....
" 21	" .....	45727	T. A. Fisher, Lindsay.....	1 "	20	D. Bacon.....
" 21	" .....	45728	W. M. Robson, Lindsay.....	1 "	20	Unknown.....
" 21	" .....	45729	Adams Bros., Lindsay.....	1 "	22	Unknown .....
" 21	" .....	45730	J. Flurey, Lindsay.....	1 "	20	Mrs. Nort.....
" 21	" .....	45731	A. C. Babcock, Lindsay.....	1 "	20	Mrs. Evans .....
" 21	" .....	45732	H. L. Burnham, Peterboro....	1 "	26	P. Downham, Peterboro.....
" 21	" .....	45733	H. B. Bradshaw, Peterboro....	1 "	25	Mrs. Chathare.....
" 21	" .....	45734	A. J. Warne, Peterboro.....	1 "	28	W. Weir, Lang, Ont.....
" 22	" .....	45735	S. Froot, Port Hope.....	1 "	20	Mrs. T. Nicholes.....
DISTRICT OF TORONTO—						
June 18	Butter.....	45101	W. H. Bessey, Market Hall, Hamilton.	1 lb.	18	Unknown .....
" 18	" .....	45102	J. K. Smith, Market Hall, Hamilton.	1 "	19	J. V. Durham, Vanessa.....
" 25	" .....	45103	J. Tomlinson & Son, St. Lawrence Market, Toronto.	1 "	22	Unknown.....
" 25	" .....	45104	J. D. Barnes, St. Lawrence Market, Toronto.	1 "	22	D. Stewart, Thistletown.....
" 25	" .....	45105	W. T. McDonnell, 40 Church St., Toronto.	1 "	20	Mrs. Jno. Knox, Creemore.....
" 30	" .....	45106	A. E. Henry, Oshawa.....	1 "	18	Brooklin Creamery.....
" 30	" .....	45107	A. T. Lawlor, Whitby.....	1 "	20	Mrs. Wm. McTaggart, Whitby.
July 4	" .....	45108	Sinclair & Co., Orillia.....	1 "	19	Mrs. Thorborne, Orillia.....
" 5	" .....	45109	Hower & Co. Ltd., Gravenhurst.	1 "	21	G. A. Leahman, Kilworthy ....
" 5	" .....	45110	Kirk Bros., Bracebridge.....	1 "	17	Unknown.....
" 6	" .....	45111	J. W. Tudhope & Son, Huntsville.	1 "	20	Mrs. Geo. Francey, Huntsville.
" 6	" .....	45112	J. Perks, Parry Sound.....	1 "	23	Unknown.....

## SESSIONAL PAPER No. 14

## BUTTER.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Salt.	Butyro-refractometer reading at 40° C.	Dry Saltless Butter.		

## JAS. HOGAN, INSPECTOR.

	p. c.	p. c.		p. c.	
.....	11.28	0.84	43.9	87.88	45721 Genuine.
.....	12.50	5.68	44.2	81.82	45722 Reichert-Meissl, value = 30.67. Slightly below standard.
.....	10.76	3.62	41.5	85.62	45723 Genuine.
.....	10.88	4.62	43.3	84.50	45724 "
.....	10.54	4.20	44.5	85.26	45725 Reichert-Meissl, value = 31.10. Genuine.
.....	10.06	4.24	41.8	85.70	45726 Genuine.
.....	10.60	4.30	42.9	85.10	45727 "
.....	11.54	5.66	42.7	82.80	45728 "
.....	10.58	1.56	45.0	87.86	45729 Reichert-Meissl, value = 29.84. Genuine.
.....	9.04	4.10	43.9	86.86	45730 Genuine.
.....	12.62	8.04	43.8	79.36	45731 Below standard ; technically adulterated.
.....	17.04	3.22	43.7	79.74	45732 Below standard ; technically adulterated.
.....	11.56	4.56	43.7	83.88	45733 Genuine.
.....	8.76	2.78	43.2	88.46	45734 "
.....	9.98	1.18	43.2	88.84	45735 "

## H. J. DAGER, INSPECTOR.

.....	8.16	1.38	43.1	90.46	45101 Genuine.
.....	10.26	8.12	43.2	81.62	45102 Slightly below standard.
.....	12.14	1.44	43.3	86.42	45103 Genuine.
.....	14.18	3.30	43.2	82.52	45104 "
.....	9.16	12.88	43.1	77.96	45105 Below standard ; technically adulterated.
.....	12.36	1.74	42.3	85.90	45106 Genuine.
.....	9.76	2.56	44.5	87.68	45107 Reichert-Meissl, value = 27.23. Genuine.
.....	11.72	1.56	45.0	86.72	45108 Reichert-Meissl, value = 28.63. Genuine.
.....	12.16	2.46	43.9	85.38	45109 Genuine.
.....	9.80	3.16	43.3	87.04	45110 "
.....	11.12	4.32	43.7	84.56	45111 "
.....	14.26	1.76	43.5	83.98	45112 "

2 GEORGE V., A. 1912

BULLETIN No. 219—

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.	
DISTRICT OF LONDON—						
1910.						
July 23	Butter.....	44605	D. J. Maguire.....	1 lb ..	18	Mrs. Williams, McKillops. ....
" 30	" .....	44613	John Tantartino, grocer, Guelph	1 " ..	24	Mrs. Jas. Stewart. ....
" 30	" .....	44614	William Hood, Guelph.....	1 " ..	23	Mrs. Monkman .....
" 30	" .....	44615	J. A. McCrea, Guelph.....	1 " ..	23	C. A. Darbey .....
" 13	" .....	44772	Dean Bros., Goderich.....	1 " ..	20	Mrs. Philip Rundler, Goderich Township.
" 13	" ..	44773	H. R. Long, Goderich.....	1 " ..	20	David Hamilton, Colborn Township.
" 14	" .....	44780	J. T. Lennon, Wingham. ....	1 " ..	20	Robt. Rowland, Wingham.....
" 14	" .....	44784	J. S. Gee, Listowell .....	1 " ..	20	Mrs. Wm. Kennedy, Listowell.
" 19	" .....	44792	W. R. Butcher, St. Mary's.....	1 " ..	22	Geo. Merriot, Blanchard Township.
" 20	" .....	44797	Jas. H. Pipse, Mitchell.....	1 " ..	20	Mrs. Gorley, Mitchell.....
" 21	" .....	44798	Peter Dill, Dublin.....	1 " ..	20	Mrs. Wm. Kenney, Logan Township.

## DISTRICT OF WINDSOR—

June 27	Butter.....	42401	Haskett Bros., London.....	1 lb ..	20	Unknown.....
" 27	" .....	42404	W. Davies, London.....	1 " ..	23	Molyneaux & Co., Dublin.....
" 27	" .....	42406	A. B. Jermyn, London.....	1 " ..	22	Mrs. Berry.....
" 27	" .....	42407	Jas. Falkner, London .....	1 " ..	22	Mrs. J. C. Zavitz, Poplar Hill..
" 27	" .....	42410	H. Guymer, London.....	1 " ..	22	Mrs. Lewis .....
" 28	" .....	42411	Duncan Bros., London .....	1 " ..	22	Mrs. Perkins.....
" 28	" .....	42412	S. W. Johnston, London .....	1 " ..	22	Mrs. Fraser.....
" 28	" .....	42414	F. E. Kestle, London.....	1 " ..	22	O. Hudson, Bryanston. ....
" 28	" .....	42417	H. P. Rosser, London.....	1 " ..	22	McNair.....
" 28	" .....	42418	Mrs. M. S. Deacon, London....	1 " ..	22	Mr. Reeve, Birr.....

## DISTRICT OF MANITOBA—

June 20	Butter .....	43486	B. Baker, 181 Bannerman St., Winnipeg.	1 lb.	25	The Carson Hygienic Dairy Co. 267 Maryland St., Winnipeg.
" 20	" .....	43487	F. Fawley, 1084 Main St. N., Winnipeg.	1 " ..	25	Simpson Produce Co., Winnipeg.
" 20	" .....	43488	Coyle Bros., Winnipeg. ....	1 " ..	28	Crescent Creamery Co., Winnipeg.
" 21	" .....	43489	P. H. Menlove, Main St. N., Winnipeg.	1 " ..	25	The Consolidated Butter Co., Higgins Ave., Winnipeg.

## SESSIONAL PAPER No. 14

## BUTTER.

Inspector's Report. (Is not an expres- sion of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion. of the Chief Analyst.
	Moisture.	Salt.	Butyro-refrac- tometer reading at 40° C.	Dry Saltless Butter.		

## T. KIDD, INSPECTOR.

	p. c.	p. c.		p. c.	
.....	10.32	2.06	43.0	87.62	44605 Genuine.
.....	8.76	3.58	45.0	87.66	44613 Reichert-Meissl, value = 30.09. Genuine.
.....	12.04	2.54	44.1	85.42	44614 Genuine.
.....	13.64	3.00	44.1	83.36	44615 "
.....	9.16	1.72	43.6	89.12	44772 "
.....	9.70	2.38	43.9	87.92	44773 "
.....	12.84	2.12	44.0	85.04	44780 "
.....	8.72	3.50	42.2	87.78	44784 "
.....	10.16	3.16	42.7	86.68	44792 "
.....	12.40	3.64	42.4	83.96	44797 "
.....	12.02	5.46	43.3	82.52	44798 "

## JNO. TALBOT, INSPECTOR.

.....	9.18	0.28	44.6	90.54	42401 Reichert-Meissl, value = 26.53. Genuine.
.....	7.78	2.12	44.0	90.10	42404 Genuine.
.....	14.52	2.52	43.2	82.96	42406 "
.....	8.92	1.38	43.5	89.70	42407 "
.....	9.40	0.76	44.7	89.84	42410 "
.....	11.32	1.52	44.7	87.16	42411 "
.....	12.38	3.16	43.5	84.46	42412 "
.....	13.86	0.30	43.6	85.84	42414 "
.....	10.42	0.40	43.8	89.18	42417 "
.....	6.88	1.44	42.5	91.68	42418 "

## A. C. LARIVIERE, INSPECTOR

.....	13.28	1.94	43.6	84.78	43486 Genuine.
.....	8.64	2.18	44.5	89.19	43487 Reichert-Meissl, value = 25.83. Genuine.
.....	14.10	3.06	43.8	82.84	43488 Genuine.
.....	7.92	5.16	43.9	86.92	43489 "

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.	

DISTRICT OF MANITOBA—

1910.						
June 21	Butter.....	43490	Templeton & Co., 1028 Main St. N., Winnipeg.	1 lb..	26	James McNaughton, St. Paul, M
" 21	" .....	43491	Moffett & Douglas, Selkirk Ave., Winnipeg.	1 "	25	Unknown.....
" 21	" .....	43492	S. G. Prebble, Notre Dame Ave., Winnipeg.	1 "	25	" .....
" 23	" .....	43493	H. Slason, Nena St., Winnipeg.	1 "	25	Dingle & Stewart, Winnipeg....
" 27	" .....	43494	G. T. Hoyes, Elmwood.....	1 "	25	Unknown.. .....
" 27	" .....	43495	J. G. McGrath, Elmwood.....	1 "	25	" .....
" 28	" .....	43496	Heaney Bros., Portage Ave., Winnipeg.	1 "	25	" .....
" 28	" .....	43497	A. T. Culley, Norwood Grove..	1 "	25	The Simpson Produce Co., Winnipeg.
" 28	" .....	43498	W J. Kennedy, Norwood Grove.	1 "	25	Peter Falk.....
" 29	" .....	43499	Pasekov & Pearoin, Weston....	1 "	25	Unknown.....
" 29	" .....	43500	Saunders Bros., Weston.....	1 "	25	Campbell Bros. & Wilson. Winnipeg.

DISTRICT OF CALGARY—

July 5	Butter.....	43756	Craddack & Viner, Lethbridge..	1 lb..	35	Government Creamery, Alberta.
" 5	" .....	43757	George Keer & Co., Lethbridge.	1 " ..	35	J. F. Miller, Lacombe.....
" 5	" .....	43758	A. Macdonald & Co., Lethbridge	1 " ..	35	W. G. Smith, Leavitt, Alta ...
" 5	" .....	43759	Hudson Bay Co., Lethbridge..	1 " ..	35	Campbell & Griffiths, Calgary...
" 13	" .....	43760	R. Dunn, Medicine Hat .....	1 " ..	30	A. Mart, Josephsburg, Alta....
" 13	" .....	43761	The D. Milne Co., Ltd., Medicine Hat.	1 " ..	30	Goslib Lust, Josephsburg, Alta.
" 20	" .....	43762	Wood & Green, Calgary..	1 " ..	25	Jas. D. Baillie, Black Diamond, Alta.
" 20	" .....	43763	J. A. Nolan, Calgary.....	1 " ..	30	W. L. Fischar, Mayton, Alta..
" 20	" .....	43764	Calgary Milling Co., Ltd., Calgary.	1 " ..	30	Pallison Bros., Co., Calgary....
" 20	" .....	43765	Hudson Bay Co., Calgary..	1 " ..	30	Wild Rose Creamery, Ponoka, Alta.
" 20	" .....	43766	C. J. Winn, Calgary .....	1 " ..	30	J. F. Griffin & Co., Ltd., Calgary.
" 20	" .....	43767	Copas & Emerson, Calgary.....	1 " ..	30	H. Collinge, Didsbury, Alta....
" 20	" .....	43768	J. T. Macdonald, Calgary.....	1 " ..	30	R. B. Eaton, Stettler, Alta ....
" 20	" .....	43769	S. G. Freeze, Calgary ...	1 " ..	30	Mrs. C. Christianson, Dickson, Alta.
" 20	" .....	43770	Hallat & Longdon, Calgary ...	1 " ..	30	Mrs. Behren, Bawlf, Alta.....



## SESSIONAL PAPER No. 14

## BUTTER.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Salt.	Butyro-refractometer, reading at 40°C.	Dry Saltless Butter.		

*Continued.*

	p. c.	p. c.		p. c.		
.....	11.14	3.78	43.0	85.08	43490	Genuine
.....	8.32	1.14	43.7	90.54	43491	"
.....	10.94	3.10	42.7	85.86	43492	"
.....	11.32	4.26	43.4	84.42	43493	"
.....	10.00	2.36	43.6	87.64	43494	"
.....	9.28	2.58	43.5	88.14	43495	"
.....	10.78	3.12	43.3	86.10	43496	"
.....	13.70	3.62	43.4	82.68	43497	"
.....	8.60	3.58	44.0	86.82	43498	"
.....	10.36	2.30	43.9	87.44	43499	"
.....	7.10	0.92	43.0	91.98	43500	"

## R. W. FLETCHER, INSPECTOR.

.....	13.48	2.80	43.7	83.72	43756	Genuine.
.....	6.88	1.54	43.3	91.58	43757	"
.....	7.76	0.92	43.6	91.32	43758	"
.....	10.22	1.90	43.4	87.88	43759	"
.....	9.96	2.02	43.2	88.02	43760	"
.....	7.10	1.12	41.9	91.78	43761	"
.....	11.14	3.40	43.1	85.46	43762	"
.....	12.42	5.20	43.1	82.38	43763	"
.....	10.40	0.60	42.8	89.00	43764	"
.....	10.88	2.38	43.2	86.74	43765	"
.....	11.46	3.06	43.3	85.48	43766	"
.....	12.80	0.48	43.1	86.72	43767	"
.....	10.58	1.86	43.4	87.56	43768	"
.....	11.68	1.14	43.3	87.18	43769	"
.....	9.22	5.16	43.5	85.62	43770	"

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.	
DISTRICT OF VANCOUVER—						
1910.						
June 29	Butter.....	37956	S. Bell, Fairview, Vancouver...	1 lb ..	30	Parson & Haddock.....
" 29	" .....	37957	A. Doran, Fairview, Vancouver	1 " ..	35	Vancouver Creamery.....
" 29	" .....	37958	T. H. Cardinal & Sons, Kitsilano Vancouver.	1 " ..	35	Chilliwack Creamery.....
July 19	" .....	37959	E. G. Cordingley, Cedar Cottage Vancouver.	1 " ..	35	A. P. Slade & Co. ....
" 19	" .....	37960	F. Oyling, Cedar Cottage, Van- couver.	1 " ..	35	W. H. Malkin & Co., Vancouver
" 19	" .....	37961	J. W. McIntyre, Cedar Cottage Vancouver.	1 " ..	35	Vancouver Creamery .....
" 19	" .....	37962	Cashen Bros., Cedar Cottage, Vancouver.	1 " ..	35	W. J. Prout .. .. .
" 19	" .....	37963	F. H. Hepper, Grandview.....	1 " ..	30	Naismith & Co.....
" 19	" .....	37964	H. W. Jones, Grandview.....	1 lb ..	30	P. Slade.....
" 19	" .....	37965	T. A. Brewis, Grandview .....	1 " ..	30	Unknown.....
" 19	" .....	37966	Mam's Grocery, Grandview....	1 " ..	25	G. W. Prout & Co.....
" 19	" .....	37967	Jos. Cossetti, Vancouver. ....	1 " ..	30	Unknown.....
" 19	" .....	37968	Avenue Meat Market, Van- couver.	1 " ..	35	J. Y. Griffin .. .. .
" 19	" .....	37969	Ed. Manning, Vancouver .....	1 " ..	35	Richmond Dairy.....
" 19	" .....	37970	A. H. Bower, Vancouver.....	1 " ..	35	Vancouver Creamery.....
DISTRICT OF VICTORIA—						
June 20	Butter.....	41699	Windsor Grocery Co., Victoria.	1 lb ..	35	J. Y. Griffin & Co., Victoria, B.C.
" 20	" .....	41700	The Saunders Grocery Co., Ltd., Victoria.	1 " ..	30	F. R. Stewart & Co., Victoria, B.C.
" 21	" .....	41884	The West End Grocery Co., Ltd., Victoria.	1 " ..	30	B. Wilson Co., Ltd., Victoria, B.C.
" 21	" .....	44885	H. O. Kirkham, Victoria .....	1 " ..	30	The B. Wilson Co., Ltd., Vic- toria, B.C.
" 22	" .....	44886	Harrison & McDonald, Victoria	1 " ..	30	Simor Leiser & Co., Victoria, B.C.
" 22	" .....	44887	Acton Bros., Victoria.....	1 " ..	30	F. R. Stewart & Co., Victoria, B.C.
" 22	" .....	44888	W. B. Hall, Victoria.....	1 " ..	30	B. Wilson Co., Ltd., Victoria, B.C.
" 23	" .....	44889	Copas & Young, Victoria .....	1 " ..	30	Unknown.....
" 23	" .....	44890	E. F. Plummer, Victoria.....	1 " ..	35	Naismith & Co., Vancouver....
" 24	" .....	44891	L. Dickinson, Victoria .....	1 " ..	30	Victoria Creamery, Victoria, B.C.
" 24	" .....	44892	J. Renouf, Victoria.....	1 " ..	35	C. Heals, Victoria, B.C.....
" 24	" .....	44893	E. G. Bailey, Victoria.....	1 " ..	30	B. Wilson Co., Ltd, Victoria, B.C.
" 24	" .....	44894	Erskine & Co., Victoria.....	1 " ..	35	Victoria Creamery, Victoria, B.C.
" 27	" .....	44895	A. Pool, Victoria.....	1 " ..	35	Naismith & Co., Vancouver. ..
" 27	" .....	44896	Dixie H. Ross & Co., Victoria..	1 " ..	30	B. Wilson Co., Ltd., Victoria, B.C.

## SESSIONAL PAPER No. 14

## BUTTER.

Inspector's Report. (Is not an expression of opinion.)	RESULTS OF ANALYSIS.				No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Moisture.	Salt.	Butyro-refractometer reading at 40°C.	Dry Saltless Butter.		
J. F. POWER, INSPECTOR.						
.....	p.c. 11.60	p.c. 1.10	43.6	p. c. 87.30	37956	Genuine.
.....	9.92	3.84	43.0	86.24	37957	"
.....	12.72	1.40	43.4	85.88	37958	"
.....	13.28	3.84	43.5	82.88	37959	"
.....	12.70	1.52	43.5	85.78	37960	"
.....	8.64	1.90	42.3	89.46	37961	"
.....	13.36	2.00	43.9	84.64	37962	"
.....	10.56	2.04	43.3	87.40	37963	"
.....	8.32	0.66	43.1	91.02	37964	"
.....	9.94	0.94	42.9	89.12	37965	"
.....	6.66	4.36	43.5	88.98	37966	"
.....	12.46	2.24	43.0	85.30	37967	"
.....	12.94	3.98	42.8	83.08	37968	"
.....	12.12	1.20	43.8	86.68	37969	"
.....	14.52	2.28	43.1	83.20	37970	"
D. O'SULLIVAN, INSPECTOR.						
.....	7.64	1.60	43.5	90.76	41699	Genuine.
.....	10.68	1.44	43.8	87.88	41700	"
.....	9.82	3.20	43.9	87.98	44884	"
.....	12.28	1.38	42.9	86.34	44885	"
.....	10.84	1.72	42.0	87.44	44886	"
.....	8.54	1.38	44.8	90.08	44887	Reichert Meissl, value = 22.21. Adulterated.
.....	13.20	0.66	43.0	86.14	44888	Genuine.
.....	8.96	3.60	44.2	87.44	44889	Reichert Meissl, value = 28.72. Genuine.
.....	10.44	1.92	43.0	87.64	44890	Genuine.
.....	8.02	1.94	43.3	90.04	44891	"
.....	11.90	0.62	43.2	87.48	44892	"
.....	8.76	2.96	43.1	88.28	44893	"
.....	11.60	1.10	43.4	87.30	44894	"
.....	12.50	3.04	43.3	84.46	44895	"
.....	10.46	2.50	43.8	87.04	44896	"

## APPENDIX O.

## BULLETIN No. 220—TABLE SALT.

OTTAWA, Ont., December 7, 1910.

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

SIR,—I beg to hand you a report upon 273 samples of table salt, collected throughout the Dominion in October last.

The last inspection of this article was made in August, 1906, and is reported in Bulletin No. 128.

We have no legal standard for table salt in Canada. The following definition has been given legal force in the United States, since June, 1906 :—

Table salt, dairy salt, is fine grained crystalline salt, containing, on a water free basis, not more than one and four-tenths (1·4) per cent calcium sulphate ( $\text{CaSO}_4$ ), nor more than five-tenths (0·5) per cent of calcium and magnesium chlorides ( $\text{CaCl}_2$  and  $\text{MgCl}_2$ ) nor more than one-tenth (0·1) per cent of matters insoluble in water.

I am of opinion that the above requirements are perfectly reasonable, for a purified salt, such as is suitable for table use. As judged by this standard, 215 samples (or 78 per cent of the collection) are normal. Of the remainder, 39 samples contain an excess of material insoluble in water. This is usually starch, carbonate of lime, or other harmless matter, evidently introduced to render the salt less hygroscopic—in other words, to prevent it from caking in use. This is probably an improvement, and is covered by Sec. 24, (a) which provides :—

Where any matter or ingredient not injurious to health has been added to the food or drug, in case such matter or ingredient is required for the production or preparation thereof as an article of commerce in a state fit for carriage or consumption, if the same has not been fraudulently added to such food or drug for the purpose of increasing the bulk, weight or measure thereof, or to conceal its inferior quality, and each package, roll, parcel or vessel containing every such article of food or drug manufactured, sold or exposed for sale is distinctly labelled as a mixture in conspicuous characters forming an inseparable part of a general label thereon bearing the name and address of the manufacturer.

In order that the manufacturer may have the protection afforded by this Section, it will be noted that the article must be marked and labelled as a mixture. In the absence of any legal standard, fixing the point at which matters other than chloride of sodium must be considered as *added* material, I have refrained, in this report, from describing any samples as being adulterated.

SESSIONAL PAPER No. 14

It is hoped that before another collection of table salt is made, we shall have a standard for this article ; in which case the failure to state additions of foreign matter to salt will necessarily constitute adulteration under the Act.

I beg to recommend the publication of this report as Bulletin No. 220.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,

*Chief Analyst.*



2 GEORGE V., A. 1912

TABLE

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--

1910.							
Oct.	17	Table Salt	42170 J. F. Crowe & Co., Ltd., Halifax, N.S.	3 lbs.	04	Windsor Salt Co., Windsor, Ont.	Co., Manufacturers.....
"	17	"	42171 T. J. Brown, Halifax, N.S.	3 "	05	Empire Salt Sarnia.	Co., J. F. Crowe & Co., Halifax.
"	17	"	42172 W. J. Hopgood & Son, Halifax, N.S.	3 "	05	Canadian Salt Windsor, Ont.	Co., .....
"	17	"	42173 City Provision Store, Halifax, N.S.	3 "	05	"	Jno. Tobin & Co., Halifax, N.S.
"	17	"	42174 J. L. Archibald & Son, Halifax, N.S.	3 "	05	"	Chisholm & Co., Halifax, N.S.
"	17	"	42175 W. J. Forristall, Halifax, N.S.	2 "	10	Diamond Crystal Salt Co., St. Clair, Mich.	Bauld Bros., Halifax, N.S.
"	17	"	42176 F. W. Hodgeson, Halifax, N.S.	2 "	05	Canadian Salt Windsor, Ont.	Co., J. F. Crowe & Co., Halifax, N.S.
"	18	"	42177 T. F. Courtney & Co., Halifax, N.S.	2 "	05	Snow Flake Salt New York.	Co., Unknown .....
"	18	"	42178 E. B. Tracey, Halifax, N.S.	3 "	05	Dom. Salt Co., Sarnia.	Chisholm & Co., Halifax.
"	18	"	42179 E. Donahoe, Halifax, N.S.	3 "	05	Unknown	T. A. S. DeWolfe, Halifax.
"	18	"	42180 W. E. Crowe & Co., Halifax, N.S.	3 "	05	Canadian Salt Windsor, Ont.	Co., Jno. F. Crowe & Co., Halifax.
"	19	"	42181 Wentzells, Ltd., Halifax, N.S.	3 "	05	Empire Salt Sarnia, Ont.	Co., J. W. Goreham, Halifax.
"	19	"	42182 E. W. Crease & Son, Halifax, N.S.	3 "	05	Dom. Salt Co., Sarnia, Ont.	Unknown .....
"	19	"	42183 S. T. Craig, Halifax, N.S.	3 "	05	Empire Salt Sarnia, Ont.	Co., .....
"	19	"	42184 R. B. Adams & Co., Halifax, N.S.	3 "	05	Canadian Salt Windsor, Ont.	Co., Jno. Tobin & Co., Halifax.
"	19	"	42185 Wm. Moore, Halifax, N.S.	3 "	05	Empire Salt Sarnia.	Co., Wentzells, Ltd., Halifax.
"	20	"	42186 O. J. Lyons, Kentville, N.S.	3 "	05	Canadian Salt Windsor, Ont.	Co., A. & W. Smith, Halifax.
"	20	"	42187 DeWolfe & Lamont, Kentville, N.S.	3 "	05	"	R. B. Seeton, Halifax.
"	21	"	42188 Forsyth, jr., Dartmouth, N.S.	3 "	05	"	J. F. Crowe & Co., Halifax.
"	21	"	42189 S. Mett, Dartmouth, N.S.	3 "	05	"	Jno. Tobin & Co., Halifax.

DISTRICT OF PRINCE EDWARD ISLAND--

Sept.	12	Table Salt	45941 P. A. Smith, Charlottetown.	1 bag.	5	Empire Salt Co., Sarnia, Ont.	.....
"	13	"	45942 M. & A. McLeod, Charlottetown.	2 lbs.	2	.....	J. A. Farquharson, Charlottetown.
"	13	"	45943 J. A. Farquharson, Charlottetown.	1 bot.	15	G. & E. Morton, London, Eng.	.....
"	13	"	45944 W. W. Walker, Charlottetown.	1 bag.	5	Canadian Salt Windsor, Ont.	Co., .....
"	13	"	45945 J. F. Mahar, Charlottetown.	1 "	5	Empire Salt Co., Sarnia, Ont.	.....

## SESSIONAL PAPER No. 14

## SALT.

Inspector's Report (Is not an expression of opinion).	RESULTS OF ANALYSIS.				Character of Insoluble Matter.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Insoluble in water.	Sulphates % $\text{SO}_4$ .	Lime % $\text{CaO}$ .	Calcium sulphate calculated from $\text{SO}_4$ .			

## R. J. WAUGH, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.			
.....	Less than 0.10	0.72	....	1.03	.....	42170	Normal.
.....	"	.....	.....	Not over 1.0	.....	42171	"
.....	"	0.83	.....	1.18	.....	42172	"
.....	"	0.90	0.51	1.27	.....	42173	"
.....	"	.....	.....	Not over 1.0	.....	42174	"
Shaker Salt .....	1.73	.....	.....	"	Principally $\text{CaCO}_3$ ..	42175	Insoluble matter is high.
.....	Less than 0.10	0.82	.....	1.16	.....	42176	Normal.
.....	0.59	.....	.....	Not over 1.0	Principally $\text{CaCO}_3$ ..	42177	Insoluble matter high.
.....	Less than 0.10	.....	.....	"	.....	42178	Normal.
.....	"	0.89	0.46	1.26	.....	42179	"
.....	"	.....	.....	Not over 1.0	.....	42180	"
.....	"	.....	.....	"	.....	42181	"
.....	"	.....	.....	"	.....	42182	"
.....	"	.....	.....	"	.....	42183	"
.....	"	.....	.....	"	.....	42184	"
.....	"	.....	.....	"	.....	42185	"
.....	"	.....	.....	"	.....	42186	"
.....	"	.....	.....	"	.....	42187	"
.....	"	.....	.....	"	.....	42188	"
.....	"	0.87	.....	1.23	.....	42189	"

## THEO. MOORE, INSPECTOR.

.....	Less than 0.10	.....	.....	Not over 1.0	.....	45941	Normal.
.....	"	.....	.....	"	.....	45942	"
.....	"	1.38	0.41	1.00	Calc. from $\text{CaO}$ .....	45943	Sulphates high.
Windsor Table Salt, purest and best.	"	.....	.....	Not over 1.0	.....	45944	Normal.
.....	"	.....	.....	"	.....	45945	"

2 GEORGE V., A. 1912

TABLE

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—							
1910.							
Sept. 14	Table Salt	45946	John McKenna, Charlottetown.	1 can.	15	Dearborn & Co., St. John, N.B.	
" 14	"	45947	Stewart & Son, Charlottetown.	1 "	12	W. H. Fleet, Ltd., Liverpool, Eng.	
" 14	"	45948	Geo. Rackham, Charlottetown.	1 "	10	Diamond Crystal Salt Co., St. Clair, Mich.	
" 14	"	45949	Mrs. F. H. Campbell, Pownal.	1 bag.	5	Dominion Salt Co., Sarnia, Ont.	
" 14	"	45950	A. N. Jenkins, Orwell	1 "	5	Empire Salt Co., Sarnia, Ont.	
" 16	"	45951	J. F. Morrissey, Kenlock.	1 "	5	Canadian Salt Co., Windsor, Ont.	
" 17	"	45952	A. D. Ross, Eldon.	2 lbs.	3	Unknown	
" 17	"	45953	Jas. H. C. Moore, Eldon.	2 "	3	Hickson & Son, England.	
" 17	"	45954	R. E. McDonald, Pinett.	2 "	3		R. E. Mutch, Charlottetown.
" 23	"	45955	D. McKenzie, Kensington.	1 bag.	5	Canadian Salt Co., Windsor, Ont.	
" 24	"	45956	Bruce & McKay, Summerside.	1 can.	10	Dearborn & Co., St. John, N.B.	
" 24	"	45957	Sinclair & Stewart, Summerside.	1 bag.	5	Dominion Crystal Salt Works, St. Clair, Mich.	
" 24	"	45958	F. W. Strong, Summerside.	2 lbs.	2	Canadian Salt Co., Windsor, Ont.	
" 24	"	45959	H. M. Sellar, Charlottetown.	1 can.	12	Cerebos, Ltd., London, Eng.	
" 24	"	45960	Carvell Bros., Charlottetown.	"	12	W. H. Flett, Liverpool, Eng.	

## DISTRICT OF NEW BRUNSWICK—

Sept. 27	Table Salt	45369	H. S. Francis, St. John, N.B.	2 lbs.	5		Geo. E. Barbour, & Co., Ltd., St. John, N.B.
" 27	"	45370	2 Barkers Ltd., St. John, N.B.	1 bag.	7	The Can. Salt Co., Ltd., Windsor, Ont.	
" 27	"	45371	J. H. Case, St. John, N.B.	2 lbs.	3		G. S. DeForest & Sons, St. John, N.B.
" 28	"	45372	W. S. Vaughn, St. John, N.B.	1 can.	10	Diamond Crystal Salt Co., St. Clair, Mich.	
" 28	"	45373	J. H. Walker, St. John, N.B.	1 pkg.	10	Unknown	Unknown
" 28	"	45374	H. G. Marten, St. John, N.B.	1 bag.	5	The Dom. Salt Co., Ltd., Sarnia, Ont.	
Oct. 4	"	45375	W. A. Estabrook, Fredericton, N.B.	2 lbs.	5		A. F. Randolph & Son, Fredericton.
" 6	"	45376	W. A. Gillett, Andover, N.B.	1 pkg.	10	Can. Salt Co., Windsor, Ont.	
" 7	"	45377	W. L. Mallory, Perth, N.B.	1 bag.	10	"	

SESSIONAL PAPER No. 14

SALT.—Continued.

Inspector's Report. (Is not an expression of opinion.)	RESULTS OF ANALYSIS.				Character of Insoluble Matter.	No. of Sample.	Remarks and opinions of the Chief Analyst.
	Insoluble in water.	Sulphates % $\text{SO}_4$	lime % $\text{CaO}$ .	Calcium Sulphate Calculated from $\text{SO}_4$			

THEO. MOORE, INSPECTOR—Continued.

	p. c.	p. c.	p. c.	p. c.			
.....	4.63	1.05	0.69	1.49	Maize starch,.....	45946	Insoluble matter high. Starch present.
.....	2.10	0.96	0.40	1.00	Calc. from $\text{CaO}$ , Al. Ca & Mg carbonate	45947	Insoluble matter high.
.....	1.76	.....	.....	Not over 1.0	Principally $\text{CaCO}_3$ ...	45948	" "
.....	Less than 0.10	.....	.....	"	.....	45949	Normal.
.....	"	.....	.....	"	.....	45950	"
Windsor Table Salt, purest and best.	"	.....	.....	"	.....	45951	"
.....	"	0.87	0.50	1.23	.....	45952	"
.....	"	0.95	0.53	1.35	.....	45953	"
.....	"	0.80	0.53	1.13	.....	45954	"
Windsor Table Salt, purest and best.	"	0.83	.....	1.18	.....	45955	"
.....	3.00	0.99	0.57	1.41	Maize starch,.....	45956	Insoluble matter high.
Dom. Crystal Salt, above 99% pure.	Less than 0.10	.....	.....	Not over 1.0	.....	45957	Normal.
.....	"	.....	.....	"	.....	45958	"
Contains mixed phosphates.	3.00	.....	.....	"	Principally alumina phosphate.....	45959	Insoluble matter high
.....	2.01	0.98	0.41	1.00	Calc. from $\text{CaO}$ , Al. Ca & Mg carbonate	45960	" "

J. C. FERGUSON, INSPECTOR.

.....	Less than 0.10	.....	.....	Not over 1.0	.....	45369	Normal.
.....	"	.....	.....	"	.....	45370	"
.....	"	0.92	0.55	1.31	.....	45371	"
Arober's Pearl Shaker Table Salt.	0.53	.....	.....	Not over 1.0	Principally $\text{MgCO}_3$ ...	45372	Insoluble matter high
.....	0.64	0.80	.....	1.14	" $\text{CaCO}_3$ ...	45373	" "
.....	Less than 0.10	.....	.....	Not over 1.0	.....	45374	Normal.
.....	"	1.20	0.76	1.84	.....	45375	Sulphates high.
.....	"	0.76	0.46	1.08	.....	45376	Normal.
.....	"	0.73	.....	1.04	.....	45377	"

2 GEORGE V., A. 1912

TABLE

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—

1910.							
Oct	7	Table Salt	45378 G. T. Baird Co., Ltd., Perth, N.B.	1 bag.	10	Can. Salt Co., Windsor, Ont.	
"	8	"	45379 Rosamond & Thomas, Grand Falls, N.B.	1 "	10	" "	
"	8	"	45380 Jas. F. McClusky, Grand Falls, N.B.	1 "	10	" "	
"	17	"	45381 Mills Eveleigh, Ltd., Sussex, N.B.	2 lbs.	5		J. N. Eveleigh & Co., Ltd., Sus- sex, N.B.
"	17	"	45382 W. B. McKay Co., Ltd., Sussex, N.B.	2 "	5		Baird & Peters, St. John, N.B.
"	18	"	45383 Mrs. P. White, Monc- ton, N.B.	2 "	10	Diamond Crystal Salt Co., St. Clair, Mich.	
"	19	"	45384 J. B. Snowball Co., Ltd., Chatham, N.B.	2 "	5	The Can. Salt Co., Ltd., Windsor, Ont.	
"	19	"	45385 D. MacLachlan, Chat- ham, N.B.	2 "	5	" "	
"	19	"	45386 Geo. Stables, New- castle, N.B.	1 pkg.	5	" "	
"	21	"	45387 A. C. Branch, Bath- urst, N.B.	1 "	5	" "	
"	21	"	45388 W. J. Kent Co., Ltd., Bathurst, N.B.	1 "	5	" "	

## DISTRICT OF QUEBEC.—

Sept.	19	Table Salt	36326 Hamel & Bedard, 728 rue St. Valier, Québec	3 lbs.	5	F. A. Robitail, Québec.	Manufacturer.
"	19	"	36327 Arthur Drolet, 714 rue St. Valier, Québec.	2 bxs.	20	Unknown.	J. B. Reneaud & Cie., Québec.
"	19	"	36328 Arthur Drolet, 714 rue St. Valier, Québec.	1 suc.	5	Can. Salt Co., Ont.	Langlois & Paradis.
"	19	"	36329 Arthur Drolet, 714 rue St. Valier, Québec.	1 "	5	F. A. Robitail, Québec.	Manufacturer.
"	20	"	36330 Arthur Rinfret, 114 rue St. Joseph, Québec.	1 "	5	F. A. Robitail, Québec.	Manufacturer.
"	21	"	36331 Cantin Frère, 271 rue St. Joseph, Québec.	1 "	5	Can. Salt Co., Windsor.	N. Turcot & Cie., Québec.
"	22	"	36332 O. Lacroix, 19 rue St. Joseph, Québec.	1 "	5	Can. Salt Co., Windsor.	J. B. Reneaud & Cie., Québec.
"	22	"	36333 O. Lacroix, 19 rue St. Joseph, Québec.	1 "	5	F. A. Robitail, Québec.	Manufacturer.
"	23	"	36334 Alphonse Lyonnais, 108 rue D'Orchester, Qué.	1 "	5	F. A. Robitail, Québec.	Manufacturer.
"	23	"	36335 Dell. G. A. Ernst, 120 rue D'Orchester, Qué.	1 "	5	Unknown.	A. Laroche, Québec.
"	26	"	36336 Theophile Julien, 124 rue D'Orchester, Qué.	1 "	5	East Salta Factory.	Manufacturer.
"	26	"	36337 Jos. D. Marier, 136 rue D'Orchester, Québec.	1 "	5	Unknown.	
"	27	"	36338 Elzéar Gagnon, 128 rue D'Orchester, Québec.	1 "	5	Mahea, Québec.	Manufacturer.



SESSIONAL PAPER No. 14

SALT—Continued.

RESULTS OF ANALYSIS.						
Inspector's Report (Is not an expres- sion of opinion).	Insoluble in water.	Sulphates % $\text{SO}_4$ .	Lime % $\text{CaO}$ .	Calcium sulphate calculated from $\text{SO}_4$ .	Character of Insoluble matter.	No. of Sample.
	p. c.	p. c.	p. c.	p. c.		
	Less than 0.10			Not over 1.0		45378 Normal.
	"	0.73		1.05		45379 "
	"			Not over 1.0		45380 "
	"			"		45381 "
	"			"		45382 "
Shaker's Table Salt with 10% carbon- ate of magnesia.	0.61			"	Principally Mg. $\text{CO}_3$ .	45383 Insoluble matter high
	Less than 0.10			"		45384 Normal.
	"	0.80	0.45	1.14		45385 "
	"			Not over 1.0		45386 "
	"	0.82	0.52	1.16		45387 "
	"			Not over 1.0		45388 "

E. BELAND, INSPECTOR.

	0.10	1.09	0.59	1.55		36326 Sulphates high.
	0.55				Principally $\text{CaCO}_3$ ...	36327 Insoluble matter high.
	0.01	0.44	0.28	0.63		36328 Normal.
	0.02	0.62	0.37	0.88		36329 "
	0.16	1.41	0.76	2.00		36330 Sulphates high.
	0.01	0.70	0.45	1.00		36331 Normal.
	0.01	0.47	0.30	0.67		36332 "
	0.09	0.96	0.51	1.37		36333 "
	0.03	0.60	0.35	0.86		36334 "
	0.19	1.29	0.69	1.83		26335 Sulphates high.
	less than 0.10	0.95	0.57	1.35		36336 Normal.
	"	1.19	0.63	1.69		36337 Sulphates high.
	"	1.06	0.56	1.51		36338 "

2 GEORGE V., A. 1912

TABLE

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—

1910							
Sept. 27	Table Salt	36339	Philippe Clouet, 156 rue D'Orchester, Québec.	1 sac.	5	Unknown.	Turcot & Frère, Québec.
" 28	"	36340	Elzear P. Couture, 124 rue Caron, Québec.	1 "	5	F. A. Robitail, Québec.	Manufacturer.
" 28	"	36341	Jos. A. Talbot, 410 rue de la Reine, Québec.	1 "	5	Windsor, Ltd., Toronto.	Whitead & Turner, Québec.
" 29	"	36342	Jos. E. Morand, 406 rue St. Valier, Québec.	1 "	5	Can. Salt Co., Windsor.	J. B. Reneaud & Cie., Québec.
" 29	"	36343	Jos. Boutin, 40 rue de l'Eglise, Québec.	1 "	5	F. A. Robitail, Québec.	Bedard & Frère, Québec.
" 30	"	36344	Guillaume & Gingras, 268 rue de la Roie, Québec.	1 box.	10	Diamond Crystal Salt Co. Ltd., St. Clair, Mich.	J. B. Reneaud & Cie., Québec.
" 30	"	36345	Guillaume & Gingras, 268 rue de la Roie, Québec.	1 sac.	10	Can. Salt Co., Windsor.	J. B. Reneaud & Cie., Québec.

## DISTRICT OF ST. HYACINTHE—

Oct. 4	Table Salt	41068	Chas. Vincent, Granby, P.Q.	1 bag.	5	.....	.....
" 5	"	41069	J. S. Magnire, Waterloo.	"	5	.....	.....
" 5	"	41070	F. W. Jones, Waterloo.	"	5	.....	.....
" 5	"	41071	F. Simard, Waterloo.	"	5	.....	.....
" 5	"	41072	F. Simard, Waterloo.	"	10	.....	.....
" 5	"	41073	Joseph Chartier, St. John's, P.Q.	"	5	.....	.....
" 5	"	41074	A. Foisy, St. John's, P.Q.	1 carton.	10	Diamond Crystal Salt Co., St. Clair, Mich.	.....
" 5	"	41075	A. Foisy, St. John's, P.Q.	1 bag.	5	.....	.....
" 10	"	41076	J. Leduc, St. Hyacinthe.	"	5	.....	.....
" 10	"	41077	Henri Rock, St. Hyacinthe.	"	5	.....	.....
" 10	"	41078	Gregorié et frère, St. Hyacinthe.	"	5	.....	.....
" 10	"	41079	Gregorié et frère, St. Hyacinthe.	2 lbs.	5	.....	.....
" 10	"	41080	H. Messier, St. Hyacinthe.	1 pkg.	5	.....	.....
" 10	"	41081	H. Messier, St. Hyacinthe.	2 lbs.	5	.....	.....
" 10	"	41082	A. Leost & Co., St. Hyacinthe.	1 bag.	5	.....	.....
" 10	"	41083	P. Chagnon, St. Hyacinthe.	"	5	.....	.....
" 10	"	41084	R. J. Brodeur & Cie, St. Hyacinthe.	"	5	.....	.....

SESSIONAL PAPER No. 14

SALT.—Continued.

Inspector's Report. (Is not an expres- sion of opinion.)	RESULTS OF ANALYSIS.				Character of Insoluble Matter.	No. of Sample.	Remarks and opinion of the Chief Analyst.
	Insoluble in water.	Sulphates % $\text{SO}_4$ .	Lime % $\text{CaO}$ .	Calcium Sulphate Calculated from $\text{SO}_4$ .			

E. BELAND, INSPECTOR—Continued.

	p. c.	p. c.	p. c.	p. c.			
.....	Less than 0·10	1·07	0·59	1·52	.....	36339	Sulphates high.
.....	"	1·03	0·55	1·46	.....	36340	Normal.
.....	"			not over 1·0	.....	36341	"
.....	"			"	.....	36342	"
.....	"			"	.....	36343	"
.....	1·53			"	.....	36344	Insoluble matter high.
.....	less than 0·10			"	Principally $\text{CaCO}_3$ ...	36345	Normal.

J. J. COSTIGAN, ACTING-INSPECTOR.

Windsor Table Salt	Less than 0·10	.....	Not over 1·0	.....	41068	Normal.
" " " "	"	.....	"	.....	41069	"
Empire " " "	"	.....	"	.....	41070	"
" " " "	"	0·75	1·07	.....	41071	"
Windsor " " "	"	0·72	1·02	.....	41072	"
" " " "	"	0·75	1·07	.....	41073	"
" " " "	1·63	.....	Not over 1·0	Principally $\text{CaCO}_3$ some $\text{MgCO}_3$	41074	Insoluble matter high
" " " "	Less than 0·1	0·96	0·54	1·36	41075	Normal.
" " " "	"	.....	Not over 1·0	.....	41076	"
" " " "	"	0·97	0·58	1·38	41077	"
" " " "	"	0·75	1·06	.....	41078	"
Unknown.....	"	1·12	0·62	1·59	41079	Sulphates high.
Diamond Brand...	"	.....	Not over 1·0	.....	41080	Normal.
Imported.....	"	1·05	0·57	1·49	41081	"
Windsor Brand...	"	0·82	.....	1·16	41082	"
Diamond " " "	"	.....	Not over 1·0	.....	41083	"
Windsor " " "	"	.....	"	.....	41084	"

2 GEORGE V., A. 1912

TABLE

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—

1910.							
Oct. 10	Table Salt	41085	E. Benoit, St. Hyacinthe.	1 bag.	5		
" 10	"	41086	E. Benoit, St. Hyacinthe.	1 tin.	15		
" 10	"	41087	Z. Picotte & Cie, St. Hyacinthe.	1 bag.	5		
" 10	"	41088	U. Frechette, St. Hyacinthe.	"	"		

DISTRICT OF MONTREAL—

Oct.	18	Table Salt	40762 O. Pilon, 112 St. Maurice St., Montreal.	2 lbs.	5		
"	18	"	40763 O. Pilon, 112 St. Maurice St., Montreal.	1 bag.	5		
"	18	"	40764 Dom. Grocery, 111 St. Maurice St., Mont'l.	2 lbs.	2		
"	18	"	40765 Dom. Grocery, 111 St. Maurice St., Mont'l.	1 bag.	5		
"	18	"	40766 A. Laniel, 193 McCord St., Montreal.	1 "	5		
"	18	"	40767 A. Laniel, 193 McCord St., Montreal.	2 lbs.	2		L. Chaput filset Cie
"	18	"	40768 O. Ferron, 208 McCord St., Montreal.	1 bag.	5		
"	18	"	40769 O. Ferron, 208 McCord St., Montreal.	2 lbs.	5		
"	18	"	40770 W. Demontigny, 235 McCord St., Mont'l.	2 "	5		Larue, Cloutier & Co.
"	18	"	40771 A. Desrochers, 7 Moun-tain St., Montreal.	2 "	5		
"	20	"	40772 Jos. David, 237 Adam St., Maissonneuve.	2 "	4		
"	20	"	40773 A. Pigeon, 220 Lasalle St., Montreal.	2 "	3		Laporte, Martin, Ltd.
"	20	"	40774 L. Montplaisir, 552 St. Catherine St., Mont'l.	2 "	2		
"	20	"	40775 G. Rivet, 2121 St. Catherine E., Mont'l.	2 "	3		
"	20	"	40776 L. E. Roberge, 1794 St. Catherine E., Mont'l.	3 "	3		Lalonde et Des-roches.
"	24	"	40777 Pelletier et frère, 17 Charboliz Sq., Mont-real.	2 "	4		
"	24	"	40778 A. Lagarde, 549 Notre Dame W., Montreal.	2 "	5		
"	24	"	40779 Archambault et frère, 747 Notre Dame W., Montreal.	2 "	2		
"	24	"	40780 T. Montpetit et Cie., 973 Notre Dame W., Montreal.	2 "	3		
"	24	"	40781 J. N. Chatrand, 114 Fulford St., Mont'l.	2 "	2		

SESSIONAL PAPER No. 14

SALT.—Continued.

Inspector's Report. (Is not an expression of opinion.)	RESULTS OF ANALYSIS.				Character of Insoluble Matter.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Insoluble in water.	Sulphates % $\text{SO}_4$	Lime % $\text{CaO}$ .	Calcium Sulphate Calculated from $\text{SO}_4$			

## J. J. COSTIGAN, ACTING-INSPECTOR.

Empire	Salt	p. c. Less than 0.16	p. c. 0.73	p. c. ....	p. c. 1.04	.....	41085	Normal.
Cerebos	"	3.23	.....	.....	Not over 1.0	Principally Alumina Phosphate.....	41086	Insoluble matter high
Windsor	"	Less than 0.10	0.75	.....	1.07	.....	41087	Normal.
"	"	"	.....	.....	Not over 1.0	.....	41088	"

## J. J. COSTIGAN, INSPECTOR.

.....	Less than 0.1	1.03	0.57	1.46	.....	40762	Normal.
Windsor Table Salt	"	.....	.....	Not over 1.0	.....	40763	"
.....	"	.....	.....	"	.....	40764	"
Empire Table Salt	"	.....	.....	"	.....	40765	"
Windsor Table Salt	"	.....	.....	"	.....	40766	"
.....	"	0.95	0.52	1.35	.....	40767	"
Windsor Table Salt	"	.....	.....	Not over 1.0	.....	40768	"
.....	"	1.11	0.62	1.57	.....	40769	Sulphates high.
.....	"	1.15	0.62	1.63	.....	40770	"
.....	"	0.89	0.53	1.26	.....	40771	Normal.
.....	"	1.10	0.60	1.57	.....	40772	Sulphates high.
.....	"	1.41	0.75	2.00	.....	40773	"
.....	"	0.82	.....	1.16	.....	40774	Normal.
.....	"	0.81	.....	1.15	.....	40775	"
.....	"	0.85	.....	1.20	.....	40776	"
.....	"	1.03	0.59	1.46	Dirty.....	40777	"
.....	"	0.83	0.50	1.18	"	40778	"
Windsor Table Salt	"	.....	.....	Less than 1.0	"	40779	"
Windsor Brand...	"	1.00	0.55	1.42	"	40780	"
.....	"	0.99	0.56	1.40	"	40781	"



2 GEORGE V., A. 1912

TABLE

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 VENDOR.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF OTTAWA—

1910.							
Sept.	7	Table Salt	43101 Goodall Bros., Ottawa	3lbs.	5	Canadian Salt Co., Windsor, Ont.	H. N. Bate & Sons, Ltd., Ottawa.
"	8	"	43103 H. N. Anstiss, Bank St., Ottawa.	3 "	5	Canadian Salt Co., Windsor, Ont.	Unknown.
"	13	"	43105 J. C. Brown & Co., Vankleek Hill.	3 "	5	Canadian Salt Co., Windsor, Ont.	Forbes Bros., Montreal.
"	13	"	43106 Cameron & Downing, Vankleek Hill.	3 "	5	Canadian Salt Co., Windsor, Ont.	Mathewson's Sons, Montreal.
"	14	"	43107 J. H. Mendels, Perth, Ont.	3 "	5	Canadian Salt Co., Windsor, Ont.	Verret Stewart & Co., Montreal.
"	20	"	43108 P. C. Leslie & Co., Prescott.	3 "	5	Canadian Salt Co., Windsor, Ont.	Manufacturers.
"	20	"	43109 R. A. Scott, Prescott.	3 "	5	Canadian Salt Co., Windsor, Ont.	Gilmour & Co., Brockville.
"	21	"	43110 J. A. Stubinsky, Renfrew.	3 "	5	Canadian Salt Co., Windsor, Ont.	Robertson Nicolle, Smiths Falls.
"	21	"	43111 P. J. Campbell, Renfrew.	3 "	5	Canadian Salt Co., Windsor, Ont.	Manufacturers.
"	21	"	43112 Stewart Bros. Co., Renfrew.	3 "	5	Canadian Salt Co., Windsor, Ont.	Manufacturers.
"	26	"	43113 L. Frair, Somerset St., Ottawa.	2 "	10	Diamond Crystal Salt Co., St. Clair, Mich.	S. J. Major, Ltd., Ottawa.
"	26	"	43114 A. P. Johnson, Bronson Ave., Ottawa.	3 "	5	Canadian Salt Co., Windsor, Ont.	H. N. Bate & Sons, Ltd., Ottawa.
"	26	"	43115 T. Bowman, Somerset St., Ottawa.	3 "	5	Canadian Salt Co., Windsor, Ont.	F. J. Castle Co., Ltd., Ottawa.
"	26	"	43116 N. S. Schwerdfager, Somerset St., Ottawa.	3 "	5	Canadian Salt Co., Windsor, Ont.	F. J. Castle Co., Ltd., Ottawa.
"	27	"	43117 Lapensee & Lafleur, Albert St., Ottawa.	3 "	5	Canadian Salt Co., Windsor, Ont.	H. N. Bate & Sons, Ltd., Ottawa.
"	27	"	43118 W. Farmer, Wellington St., Ottawa.	1 bot.	13	C. & E. Morton, London, Eng.	H. N. Bate & Sons, Ltd., Ottawa.
"	27	"	43119 R. Richardson, Preston St., Ottawa.	3lbs.	5	Canadian Salt Co., Windsor, Ont.	Lerner & Son, Ottawa.
"	27	"	43120 Wishart & Son, Preston St., Ottawa.	3 "	5	Canadian Salt Co., Windsor, Ont.	F. J. Castle Co., Ottawa.
"	27	"	43151 Wm. Miller, Somerset St., Ottawa.	3 "	5	Canadian Salt Co., Windsor, Ont.	H. N. Bate & Sons, Ltd., Ottawa.
"	27	"	43152 D. Brown, 1124 Wellington St., Ottawa.	3 "	5	Canadian Salt Co., Windsor, Ont.	F. J. Castle Co., Ltd., Ottawa.

SESSIONAL PAPER No. 14

## SALT—Continued.

Inspector's Report (Is not an expression of opinion.)	RESULT OF ANALYSIS.				Character of Insoluble Matter.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Insoluble in water.	Sulphates % $\text{SO}_4$	Lime % $\text{CaO}$ .	Calcium Sulphate calculated from $\text{SO}_4$ .			

J. A. RICKEY, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.			
Labelled Windsor Table Salt purest and best.	Less than 0.10					43101	Normal.
" " "	"					43103	"
" " "	"	0.81	0.51	1.16		43105	"
" " "	"	0.85	0.53	1.21		43106	"
" " "	"			Not over 1.0		43107	"
" " "	"	0.75	0.48	1.07		43108	"
" " "	"			Not over 1.0		43109	"
" " "	"			"		43110	"
" " "	"			"		43111	"
" " "	"			"		43112	"
Lab. Shaker Table Salt with 1% carbonate magnesia.	0.80			"	Principally $\text{MgCO}_3$ .	41113	Insoluble matter high.
Labelled Windsor Table Salt purest and best.	Less than 0.10			"		43114	Normal.
" " "	"			"		43115	"
" " "	"	0.85	0.53	1.21		43116	"
" " "	"			Not over 1.0		43117	"
Labelled Fine Table Salt.	"	1.58	0.48	1.16	Calc. from $\text{CaO}$ .	43118	Sulphates high.
Labelled Windsor Table Salt purest and best.	"	0.82	0.52	1.16		43119	Normal.
" " "	"			Not over 1.0		43120	"
" " "	"	0.78	0.47	1.11		43151	"
" " "	"			Not over 1.0		43152	"

2 GEORGE V., A. 1912

TABLE

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 KINGSTON—								
1910.								
Oct.	7	Table Salt.	46564	W. E. Hopkinson, Kingston.	2 lbs.	5	Canadian Salt Co., Windsor, Ont.	Geo. Robertson, Kingston.
"	7	"	46565	Geo. Gibson, Kingston.	2 "	5	Canadian Salt Co., Windsor, Ont.	"
"	7	"	46566	H. M. Stover, "	2 "	5	Le Roy, N. Y.	"
"	7	"	46567	W. J. Arniel, Alfred St., Kingston.	2 "	5	Dom. Salt Co., Sarnia.	"
"	7	"	46568	W. H. Medley, Kingston.	2 "	5	Canadian Salt Co., Windsor.	"
"	7	"	46569	N. J. Nesbitt, Kingston.	2 "	5	Dom. Salt Co., Sarnia.	"
"	7	"	46570	C. H. Pickering, Kingston.	2 "	5	Empire Co., "	"
"	10	"	46571	A. H. Reinecke, Belleville.	2 "	5	Canadian Salt Co., Windsor, Ont.	Manufacturer
"	10	"	46572	R. Fenn & Son, Belleville.	2 "	5	Canadian Salt Co., Windsor, Ont.	"
"	10	"	46573	Geo. Pearson, Belleville.	2 "	5	Canadian Salt Co., Windsor, Ont.	"
"	10	"	46574	J. Penter & Son, Belleville.	2 "	5	Canadian Salt Co., Windsor, Ont.	"
"	10	"	46575	J. H. P. Young, Belleville.	2 "	5	Canadian Salt Co., Windsor, Ont.	"
"	11	"	46576	W. J. Rontly, Peterboro.	2 "	5	Canadian Salt Co., Windsor, Ont.	"
"	11	"	46577	G. O. Brine, Peterboro.	2 "	5	Canadian Salt Co., Windsor, Ont.	"
"	11	"	46578	J. Hill, "	2 "	5	Canadian Salt Co., Windsor, Ont.	"
"	11	"	46579	J. Sutherland, "	2 "	5	Canadian Salt Co., Windsor, Ont.	"
"	11	"	46580	J. Bell, "	2 "	5	Canadian Salt Co., Windsor, Ont.	"
"	11	"	46581	E. F. Mason, "	2 "	5	Canadian Salt Co., Windsor, Ont.	"
"	11	"	46582	J. M. Fanning, "	2 "	5	Canadian Salt Co., Windsor, Ont.	"

SESSIONAL PAPER No. 14

SALT—Continued.

Inspector's Report (Is not an expression of opinion).	RESULTS OF ANALYSIS.				Character of Insoluble Matter.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Insoluble in water.	Sulphates $\text{SO}_4$ .	Lime $\text{CaO}$ .	Calcium Sulphate calculated from $\text{SO}_4$ .			

JAS. HOGAN, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.		
.....	Less than 0.10	..	.....	Not over 1.0	.....	46564 Normal.
.....	"	.....	.....	"	.....	46565 "
.....	"	.....	.....	"	.....	46566 "
.....	"	.....	.....	"	.....	46567 "
.....	"	.....	.....	"	.....	46568 "
.....	"	.....	.....	"	.....	46569 "
.....	"	.....	.....	"	.....	46570 "
.....	"	0.71	.....	1.01	.....	46571 "
.....	"	.....	.....	Not over 1.0	.....	46572 "
.....	"	0.71	.....	1.01	.....	46573 "
.....	"	0.86	0.48	1.22	.....	46574 "
.....	"	.....	.....	Not over 1.0	.....	46575 "
.....	"	0.81	0.50	1.15	.....	46576 "
.....	"	0.80	0.47	1.14	.....	46577 "
.....	"	0.87	0.51	1.23	.....	46578 "
.....	"	0.74	.....	1.05	.....	46579 "
.....	"	.....	.....	Not over 1.0	.....	46580 "
.....	"	0.85	0.48	1.21	.....	46581 "
.....	"	0.71	.....	1.01	.....	46582 "

2 GEORGE V., A. 1912

TABLE

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—							
1910.							
Sept. 13	Table Salt	45169	E. Dawe, 115 St. Patrick St. Toronto.	2 lbs.	5	Canadian Salt Co. Windsor.	
" 13	"	45170	Samuel Good, 328 Spadina Ave., Toronto.	2 "	5	" "	
" 14	"	45171	T. W. Squire, Church St., Toronto.	2 "	5	The Western Salt Co. Ltd., Moretown, Ont.	
" 14	"	45172	Toronto Salt Works, 128 Adelaide St., Toronto.	2 "	10	Vendor.	
" 15	"	45173	The Robt. Simpson Co. Ltd., Toronto.	2 "	5	Le Roy Salt Co., Le Roy, N. Y.	
" 15	"	45174	F. W. Humphrey, 47 Front St. E., Toronto.	2 "	10	The Western Salt Co. Ltd., Moretown, Ont.	
" 15	"	45175	Medland Bros. Ltd., 73 Front St. E., Toronto.	2 "	10	Diamond Crystal Salt Co., St. Clair, Mich.	
" 15	"	45176	Michie Co. Ltd., 7 King St. W., Toronto.	2 "	15	Crosse & Blackwell, London, Eng.	
" 15	"	45177	E. S. Calder, Gerard St., Toronto.	2 "	10	W. H. Flett, Ltd., Liverpool, Eng.	
" 16	"	45178	Geo. Reily, 1476 Queen St., Toronto.	2 "	5	Salt Royal Co. Ltd., Manchester, Eng.	
" 19	"	45179	Jas. J. McQuarrie, 11 King William Street, Hamilton.	2 "	5	Canadian Salt Co., Ltd., Windsor, Ont.	
" 19	"	45180	J. O. Carpenter, 11 Market Square, Hamilton.	2 "	20	Crosse & Blackwell, London, Eng.	
" 19	"	45181	Peebles Hobson Co. Ltd., King St., Hamilton.	2 "	10	The Western Salt Co. Ltd., Moretown, Ont.	
" 20	"	45182	James Lawrie, Wilson St., Hamilton.	2 "	10	The Western Salt Co. Ltd., Moretown, Ont.	
" 22	"	45183	Jas. Sanderson, Orangeville.	2 "	5	Canadian Salt Co. Ltd., Windsor, Ont.	
" 23	"	45184	J. G. Spragge, Owen Sound.	2 "	5		Eby Blain Ltd., Toronto.
" 23	"	45185	D. A. McLean, Owen Sound.	2 "	10	The Western Salt Co. Ltd., Moretown, Ont.	
" 23	"	45186	C. W. Fox, Owen Sound.	2 "	5	Diamond Crystal Salt Co., St. Clair, Mich.	
" 29	"	45187	H. Coxwell, 17 Howard St., Toronto.	2 "	10	The Canadian Salt Co., Windsor, Ont.	
" 29	"	45188	The Vair Produce Co. Ltd., 468 Spadina Ave., Toronto.	2 "	5		



SESSIONAL PAPER No. 14

## SALT—Continued.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				Character of Insoluble Matter.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Insoluble in water.	Sulphates % $\text{SO}_4$ .	Liime % $\text{CaO}$ .	Calcium sulphate calculated from $\text{SO}_4$ .			

H. J. DAGER, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.			
Windsor table salt, purest and best.	Less than 0.10	.....	.....	.....	.....	45169	Normal.
Windsor table salt, purest and best.	"	.....	.....	.....	.....	45170	"
Purity table Salt.	"	1.02	0.61	1.45	.....	45171	"
Acme table salt.	1.09	.....	.....	Not over 1.0	Maize starch.	45172	Insoluble matter high
LeRoy " "	Less than 0.10	.....	.....	"	.....	45173	Normal.
Purity " "	2.35	.....	.....	"	Principally Ca. $\text{CO}_3$ , also Mg. $\text{CO}_3$ .	45174	Insoluble matter high
Shaker's salt with 1 p. c. carbonate of Magnesia.	0.82	.....	.....	"	Principally Mg. $\text{CO}_3$ .	45175	" "
.....	1.33	1.50	0.29	0.71	Calc. from $\text{CaO}$ . $\text{CaCO}_3$ & Mg. $\text{CO}_3$ .	45176	" "
Alvina brand.	0.48	.....	.....	Not over 1.0	" "	45177	" "
Salt royal.	0.24	.....	.....	"	" "	45178	" "
Windsor table salt, purest and best.	Less than 0.1	.....	.....	Not over 1.0	.....	45179	Normal.
Refined British table salt.	"	1.55	0.49	1.18	Calc. from Ca. O	45180	Sulphates high.
Purity brand	2.18	.....	.....	Not over 1.0	Principally Ca. $\text{CO}_3$ , some Mg. $\text{CO}_3$ .	45181	Insoluble matter high
"	1.86	1.11	0.63	1.58	Principally $\text{CaCO}_3$ .	45182	" " sulphates high.
Windsor table salt, purest and best.	Less than 0.1	.....	.....	Not over 1.0	.....	45183	Normal.
.....	"	.....	.....	"	Principally Ca. $\text{CO}_3$ .	45184	"
Purity brand.	1.83	.....	.....	"	.....	45185	Insoluble matter high
Diamond crystal salt.	Less than 0.1	.....	.....	"	.....	45186	Normal.
Windsor salt, purest and best.	"	1.19	0.69	1.69	.....	45187	Sulphates high.
.....	"	.....	.....	Not over 1.0	.....	45188	Normal.

2 GEORGE V., A. 1912

TABLE

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 LONDON—

1910.							
Sept. 20	Table Salt	44617	W. J. Calwell, Beeton.	2 lbs.	5	Canadian Salt Co., Windsor.	
" 20	"	44621	J. D. Elliott, Totten-ham.	2 "	5	" " "	Ely Blain Co., Toronto.
" 26	"	44625	Oman & Mallon, Stratford.	2 "	5	Windsor Salt Co., Windsor.	
" 26	"	44630	A. Beattie & Co.	3 "	30	Jas. Humber & Co., Toronto.	Manufacturer.
" 28	"	44633	Chas. Andrews.	1½ "	5		Geo. Watts & Sons, Brantford.
" 28	"	44635	R. Smith, Seaforth.	2 "	5	Windsor Salt Co., Windsor.	
" 28	"	44641	B. A. McEwing, Clinton.	2 "	5	" " "	
" 29	"	44645	O. C. Whitley, God-erich.	2 "	10	Diamond Crystal Salt Co.	A. M. Smith & Co., London.
" 30	"	44649	Popplestone & Gardner	½ "	5		Masuret & Co.
" 30	"	44652	Henry Christie, Wing-ham.	2 "	5	Windsor Salt Co., Windsor.	
" 30	"	44655	W. Bone, Wingham.	2 "	5	" " "	
Oct. 7	"	44658	Geo. Nairns, Windsor.	1½ "	5	" " "	
" 12	"	44661	McCormick & Son.	2 "	5	" " "	
" 12	"	44663	W. R. Burcher, St. Marys.	2 "	5	" " "	
" 13	"	44665	Barnsdale Trading Co.	2 "	10		Geo. Watts & Co., Brantford.

DISTRICT OF WINDSOR—

Oct. 3	Table Salt	42445	Chute & Smith, St. Thomas.	1 sack	5	Canadian Salt Co., Windsor, Ont.	
" 4	"	42457	C. A. Filby, Aylmer, Ont.	1 "	5	" " "	
" 4	"	42463	H. B. Hodgkins	1 "	5	Empire Salt Co., Sarnia	
" 4	"	42466	Young & Caven.	1 "	5	Canadian Salt Co., Sarnia.	
" 5	"	42473	W. T. Gibson, Tillson-burg.	1 "	5	Canadian Salt Co., Windsor, Ont.	
" 5	"	42478	J. A. Trestian.	1 "	5	" " "	
" 5	"	42479	F. H. Berdux.	1 "	5	" " "	
" 5	"	42480	R. M. Teall	1 "	5	" " "	
" 5	"	42482	A. M. Smith & Son, Woodstock, Ont.	1 "	5	Canadian Salt Co., Sarnia.	
" 6	"	42485	Fury & Thompson.	1 "	5	Empire Salt Co., Sarnia	

## SESSIONAL PAPER No. 14

## SALT—Continued.

Inspector's Report (Is not an expression of opinion).	RESULTS OF ANALYSIS.				Character of Insoluble Matter.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Insoluble in water	Sulphates % $\text{SO}_4$	Lime % $\text{CaO}$	Calcium sulphates calculated from $\text{SO}_4$			

## T. KIDD, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.			
.....	Less than 0.1					44617	Normal.
.....	"					44621	"
.....	"	1.07	0.66	1.52		44625	Sulphates high.
.....	0.76			Not over 1.0	Mg. $\text{CO}_3$ , Alumina & Ca. $\text{CO}_3$	44630	Insoluble matter high
.....	Less than 0.1	0.78		1.11		44633	Normal.
.....	"			Not over 1.0		44635	"
.....	"			"		44641	"
.....	0.80			"	Principally Mg. $\text{CO}_3$	44645	Insoluble matter high
.....	Less than 0.1			"		44649	Normal.
.....	"			"		44652	"
.....	"			"		44655	"
.....	"			"		44658	"
.....	"	0.76		1.08		44661	"
.....	"			Not over 1.0		44663	"
.....	0.57			"	Principally Mg. $\text{CO}_3$	44665	Insoluble matter high

## JNO. TALBOT, INSPECTOR.

.....	Less than 0.10	0.82		1.16		42445	Normal.
.....	"			Not over 1.0		42457	"
.....	"	0.74		1.05		42463	"
.....	"			Not over 1.0		42466	"
Windsor table salt purest and best.	"			"		42473	"
.....	"	0.71		1.02		42478	"
.....	"	0.76		1.08		42479	"
.....	"			Not over 1.0		42480	"
.....	"			"		42482	"
.....	"			"		42485	"

2 GEORGE V., A. 1912

TABLE

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

1910.							
Nov. 15	Table Salt	45855	Mrs. J. R. Wallace Winnipeg.	2 lbs.	5	The Can. Salt Co. Ltd., Windsor Ont.	The Codville Co. Winnipeg.
" 15	"	45856	A. Ingram, Winnipeg.	"	5	" " "	The Jobin Marrin Co., Winnipeg.
" 15	"	45857	M. Feinstein 737 Stella St. Winnipeg.	"	5	The Dom. Salt Co. Ltd. Sarnia Ont.	Weidman Bros., Winnipeg.
" 15	"	45858	Wachnaw, 663 Stella St. Winnipeg.	"	5	The Can. Salt Co. Ltd., Windsor Ont.	Foley Bros. Larsen, Winnipeg.
" 15	"	45859	S. Ginsberg, 664 Stella St. Winnipeg.	"	5	" " "	" " "
" 16	"	45860	J. Fobht, Winnipeg...	"	5	The Dom. Salt Co. Ltd., Sarnia Ont.	A. Macdonald & Co., Winnipeg.
" 16	"	45861	P. Nelson, Winnipeg...	"	5	The Can. Salt Co. Ltd., Windsor Ont.	Unknown.
" 16	"	45862	S. J. Deroche, Winni- peg.	"	5	" " "	" " "
" 16	"	45863	P. Partridge, Higgins Ave. Winnipeg.	"	5	Empire Salt Co. Ltd., Sarnia Ont.	Campbell Bros. & Wilson, Winnipeg
" 16	"	45864	W. H. Morgan, Winni- peg.	"	10	The Western Salt Co. Ltd., Mooretown.	The Codville Co., Winnipeg.
" 16	"	45865	" " "	"	10	Diamond Crystal Salt Co., St. Clair Mich.	" " "
" 17	"	45866	Wm. Mahoney, Winni- peg.	"	10	" " "	Unknown.
" 17	"	45867	O. Hughes, Winnipeg..	"	5	The Can. Salt Co. Ltd., Windsor Ont.	" " "
" 17	"	45868	J. Smith, Winnipeg...	"	5	" " "	" " "
" 17	"	45869	Geo. T. Grant Co. Win- nipeg.	"	5	The Dom. Salt Co. Ltd., Sarnia Ont.	Lang & Co., Winni- peg.
" 17	"	45870	" " "	"	10	Diamond Crystal Salt Co., St. Clair Mich.	A. Macdonald & Co., Winnipeg.
" 17	"	45871	The T. Brown & Co. Winnipeg.	"	5	The Dom. Salt Co. Ltd., Sarnia Ont.	Unknown.
" 18	"	45872	Manitoba Meat Co., Logan Ave. Winnipeg	"	5	" " "	" " "
" 18	"	45873	" " "	"	10	Diamond Crystal Salt Co., St. Clair Mich.	" " "
" 18	"	45874	J. O'Hare, Winnipeg..	"	10	" " "	" " "

DISTRICT OF CALGARY—

Sept. 23	Table Salt	43954	R. V. Shaw & Co., Cal- gary	2 lbs..	5	Can. Salt Co., Ltd., Windsor, Ont.	.....
" 23	"	43955	Jenkins & Comfort, Calgary.	"	5	" "	.....
" 23	"	43956	R. J. Frizzle, Calgary.	"	5	" "	.....
" 27	"	43957	Georgeson & Co., Ltd., Calgary.	"	5	" "	.....
" 27	"	43958	L. T. Mewburn & Co., Ltd., Calgary.	"	5	" "	.....

SESSIONAL PAPER No. 14

SALT—Continued.

Inspector's Report. (Is not an expression of opinion.)	RESULTS OF ANALYSIS.				Character of Insoluble Matter.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Insoluble in water.	Sulphates % $\text{SO}_4$ .	Lime % $\text{CaO}$ .	Calcium Sulphate Calculated from $\text{SO}_4$ .			

## A. C. LARIVIERE INSPECTOR.

	p. c.	p. c.	p. c.	p. c.			
.....	Less than 0.10	.....	.....	Not over 1.0	.....	45855	Normal.
.....	"	0.76	.....	1.09	.....	45856	"
.....	"	.....	.....	Not over 1.0	.....	45857	"
.....	"	.....	.....	"	.....	45858	"
.....	"	0.83	0.50	1.19	.....	45859	"
.....	"	.....	.....	Not over 1.0	.....	45860	"
.....	"	.....	.....	"	.....	45861	"
.....	"	.....	.....	"	.....	45862	"
.....	"	0.72	0.51	1.03	.....	45863	"
.....	"	0.92	0.54	1.32	.....	45864	"
Shaker Table Salt.	1.66	.....	.....	Not over 1.0	Principally $\text{CaCO}_3$ ...	45865	Insoluble matter high.
.....	1.63	.....	.....	"	" "	45866	" "
.....	Less than 0.10	.....	.....	"	.....	45867	Normal.
.....	"	0.82	0.46	1.17	.....	45868	"
.....	"	.....	.....	Not over 1.0	.....	45869	"
.....	1.76	.....	.....	"	Principally $\text{CaCO}_3$ ...	45870	Insoluble matter high.
.....	Less than 0.10	.....	.....	"	.....	45871	Normal.
.....	"	.....	.....	"	.....	45872	"
.....	1.43	.....	.....	"	Principally $\text{CaCO}_3$ ...	45873	Insoluble matter high.
.....	1.54	.....	.....	"	" "	45874	" "

## R. W. FLETCHER, INSPECTOR.

.....	Less than 0.10	.....	.....	Not over 1.0	.....	43954	Normal.
.....	"	.....	.....	"	.....	43955	"
.....	"	.....	.....	"	.....	43956	"
.....	"	0.80	.....	1.13	.....	43957	"
.....	"	.....	.....	Not over 1.0	.....	43958	"



2 GEORGE V., A. 1912

TABLE

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—

1910.							
Sept. 27	Table Salt	43959	G. F. & J. Galt, Ltd., Calgary.	2 lbs..	5	Can. Salt Co., Ltd., Windsor, Ont.	
" 27	"	43960	Campbell, Wilson & Horne, Calgary.	"	5	" "	
" 29	"	43961	O. H. Johnson, Wetaskiwin.	5 lbs..	10	" "	
" 29	"	43962	Fowler & Co., Wetaskiwin.	"	10	" "	
" 30	"	43963	Gilbert Berg, Edmonton.	2 lbs..	5	" "	
" 30	"	43964	L. Levesque, Edmonton.	"	5	Empire Salt Co., Ltd., Sarnia.	
" 30	"	43965	W. Hencher, Edmonton.	"	10	Can. Salt Co., Ltd., Windsor, Ont.	
" 30	"	43966	Aitken Bros., Edmonton.	"	10	" "	
" 30	"	43967	A. Livingston, Edmonton.	"	5	" "	
" 30	"	43968	J. H. Morris & Co., Edmonton.	"	5	" "	
" 30	"	43969	Hallier & Aldridge, Edmonton.	"	10	" "	
Oct. 1	"	43970	Douglas Bros., Strathcona.	"	10	" "	
" 1	"	43971	A. H. Richards & Co., Strathcona.	"	10	" "	
" 3	"	43972	Acme Co., Ltd., Edmonton.	"	10	" "	
" 3	"	43973	Hudson's Bay Co., Edmonton.	"	10	" "	

DISTRICT OF VANCOUVER—

Oct. 11	Table Salt	38044	Gruchy & Carlaw, Vancouver.	2 lbs..	25	Diamond Crystal Salt Co., St Clair, Mich.	
" 11	"	38045	A. C. Bartig, Vancouver.	2 "	10	Canadian Salt Co., Windsor, Ont.	
" 11	"	38046	J. F. May & Co., Vancouver.	2 "	25	Crosse & Blackwell, London, Eng.	
" 11	"	38047	J. A. Dickie, Vancouver.	2 "	25	Cerebos Ltd., London	
" 11	"	38048	H. A. Edgett & Co., Vancouver.	2 "	10	Union Pacific Salt Co., San Francisco, Cal.	
" 12	"	38049	Kelly, Douglas & Co., Vancouver.	2 "	5	Hutchinson, Kan., Salt Co., Hutchinson, Kan.	
" 13	"	38050	Fraser & McLedd, Kitsilano Vane.	2 "	5	Sarnia Salt Co., Sarnia, Ont.	
" 19	"	38051	Turner's Grocery, Vancouver.	2 "	5	Unknown	

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SALT.—*Continued.*

Inspector's Report. (Is not an expres- sion of opinion.)	RESULTS OF ANALYSIS.				Character of Insoluble Matter.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Insoluble in water.	Sulphates % $\text{SO}_4$	Lime % $\text{CaO}$	Calcium Sulphate Calculated from $\text{SO}_4$			

R. W. FLETCHER, INSPECTOR—*Concluded.*

	p. c.	p. c.	p. c.	p. c.			
.....	Less than 0.10	.....	.....	Not over 1.0	.....	43959	Normal.
.....	"	.....	.....	"	.....	43960	"
.....	"	.....	.....	"	.....	43961	"
.....	"	0.74	..	1.06	.....	43962	"
.....	"	0.79	.....	1.12	.....	43963	"
.....	"	0.70	.....	1.00	.....	43964	"
.....	"	0.81	0.50	1.15	.....	43965	"
.....	"	0.85	0.46	1.20	.....	43966	"
.....	"	0.70	0.48	1.00	.....	43967	"
.....	"	0.75	.....	1.08	.....	43968	"
.....	"	.....	.....	Not over 1.0	.....	43969	"
.....	"	.....	.....	"	.....	43970	"
.....	"	.....	.....	"	.....	43971	"
.....	"	.....	.....	"	.....	43972	"
.....	"	0.79	..	1.12	.....	43973	"

J. F. POWER, INSPECTOR.

.....	1.50	.....	.....	.....	Principally $\text{CaCO}_3$ ...	38044	Insoluble matter high.
.....	Less than 0.10	.....	.....	.....	.....	38045	Normal.
.....	1.79	2.09	0.34	.....	Al. Ca and Mg. car- bonates.	38046	Insoluble matter high.
.....	3.02	0.79	.....	1.12	Principally alumina phosphate.	38047	"
Contains mixed phosphates.	Less than 0.10	.....	.....	Not over 1.0	.....	38048	Normal.
.....	"	.....	.....	"	.....	38049	"
.....	"	.....	.....	"	.....	38050	"
Peerless brand....	"	.....	.....	"	.....	38051	"

2 GEORGE V., A. 1912

TABLE

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—							
1910.							
Oct. 12	Table Salt	44965	Windsor Grocery Co., Victoria, B.C.	2 lbs.	10	Canadian Salt Co., Windsor, Ont.	
" 12	"	44966	The West End Grocery Co., Ltd.	2 "	10	" "	
" 12	"	44967	Saunders Grocery Co., Ltd., Victoria, B.C.	2 "	10	Diamond Crystal Salt Co., St. Clair, Mich.	
" 13	"	44968	Copas & Young, Victoria, B.C.	2 "	5	Union Pacific Salt Co., San Francisco, Cal.	
" 13	"	44969	" "	1 tin.	20	Cerebos Ltd., London, Eng.	
" 13	"	44970	H. O. Kirkham, Victoria, B.C.	2 lbs.	15	Hutchinson Kansas Salt Co., Hutchinson, Kansas.	
" 17	"	44971	E. G. Bailey, Victoria, B.C.	2 "	15		Simon Leiser & Co., Victoria, B.C.
" 17	"	44972	F. E. Plummer, Victoria, B.C.	2 "	10		Hudsons Bay Co., Victoria, B.C.
" 17	"	44973	Erskine & Co., Victoria, B.C.	2 "	5		R. P. Rithet & Co., Victoria, B.C.
" 17	"	44974	Dixie H. Ross & Co., Victoria, B.C.	2 "	10	Sarnia Salt Co., Sarnia, Ont.	
" 18	"	44975	" "	2 "	15	Geo. Hamlett & Sons, Ltd., Liverpool, Eng.	
" 18	"	44976	Harrison & McDonald, Victoria, B.C.	2 "	10		H. Moss, Victoria, B.C.
" 18	"	44977	Acton Bros., Victoria, B.C.	2 "	10		W. H. Malkin, Vancouver, B.C.
" 18	"	44978	W. B. Hall, Victoria, B.C.	2 "	10		Simon Leiser & Co., Victoria, B.C.
" 19	"	44979	L. Dickinson, Victoria, B.C.	2 "	5		R. P. Rithet & Co., Victoria, B.C.
" 19	"	44980	J. Renouf, Victoria, B.C.	2 "	5		Wilson Bros., Victoria, B.C.
" 19	"	44981	Cash Grocer, Victoria, B.C.	2 "	16		Simon Leiser & Co., Victoria, B.C.
" 19	"	44982	E. E. Kaufman, Victoria, B.C.	2 "	5		Hudsons Bay Co., Victoria, B.C.
" 19	"	44983	Woods & White, Victoria, B.C.	2 "	5		Simon Leiser & Co., Victoria, B.C.
" 19	"	44984	A. Pool, Victoria, B.C.	2 "	5		H. Moss, Victoria, B.C.

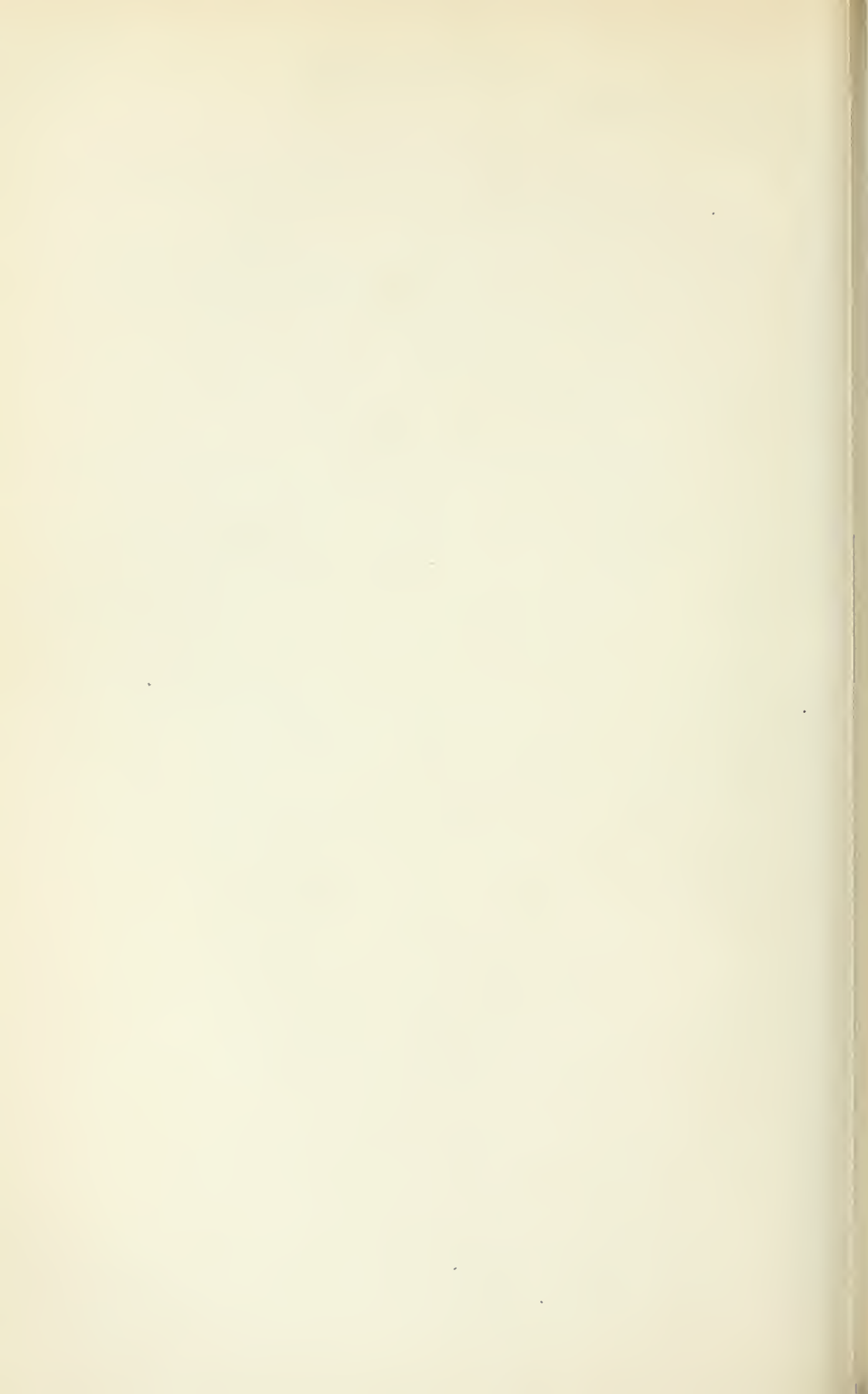
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SALT—*Concluded.*

Inspector's Report (Is not an expres- of opinion).	RESULTS OF ANALYSIS.				Character of Insoluble Matter.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Insoluble in water.	Sulphates % $\text{SO}_4$	Lime % $\text{CaO}$ .	Calcium sulphates calculated from $\text{SO}_4$			

## D. O'SULLIVAN, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.			
.....	Less than 0·10	.....	.....	Not over 1·0	.....	44965	Normal.
.....	"	0·70	.....	1·0	.....	44966	"
Shaker Table Salt.	1·71	.....	.....	Not over 1·0	.....	44967	Insoluble matter high
Banner " ..	Less than 0·10	.....	.....	"	.....	44968	Normal.
Cerebos " ..	3·00	0·85	..	1·20	.....	44969	Insoluble matter high.
R.S.V.P. " ..	Less than 0·10	.....	.....	Not over 1·0	.....	44970	Normal.
Shaker " ..	1·62	.....	.....	"	.....	44971	Insoluble matter high.
.....	Less than 0·10	0·72	.....	1·02	.....	44972	Normal.
.....	"	.....	.....	Not over 1·0	.....	44973	"
Beaver Brand.....	"	.....	.....	"	.....	44974	"
The Premier Brand Pure Table Salt.	"	0·94	0·52	1·34	.....	44975	"
.....	"	.....	.....	Not over 1·0	.....	44976	"
.....	"	.....	.....	"	.....	44977	"
.....	"	.....	.....	"	.....	44978	"
W. A. C. O. Brand	"	0·86	0·53	1·22	.....	44979	"
.....	"	0·74	.....	1·05	.....	44980	"
.....	"	0·74	.....	1·05	.....	44981	"
.....	"	1·19	0·65	1·69	.....	44982	Sulphates high.
Liverpool Fine....	"	1·13	0·61	1·61	.....	44983	"
Hickson's Factory filled Salt.	"	.....	.....	Not over 1·0	.....	44984	Normal.





## APPENDIX P.

## BULLETIN No. 221—ARSENIC AS AN IMPURITY IN DRUGS.

## (EFFERVESCENT PHOSPHATE OF SODA).

OTTAWA, December 10, 1910.

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

SIR,—Since the historic case of Arsenical beer (Manchester, Eng., 1900), where it was found that the malt used had become contaminated with dangerous amounts of arsenic through having been dried in the fumes from pyritous coal; while glucose used as an adjunct in beer manufacture contained arsenic from sulphuric acid, used in hydrolysis of starch,—many investigations of drugs have been made, specially directed towards determinations of their content of arsenic.

There is no question of intentional adulteration in this matter, but arsenic is so widely distributed in nature, and especially so in the materials employed in the manufacture of sulphuric acid—which latter is, in its turn, a principal agent in many chemical manufactures that, unless special precautions are taken, more than negligible traces of arsenic may occur in very many drugs.

Bulletin 181 of this department, contains the results of work upon 448 samples (Sulphates of magnesia and soda, and phosphate of soda) examined in June, 1909—Below is a synopsis of results:—

	ARSENIC.				Total. Samples.
	None.	Less than one-half milligram per hundred grams.	Less than one milli- gram per hundred grams.	More than one milli- gram per hundred grams.	
Sulphate of magnesia.....	120	26	4	0	150
Sulphate of soda. ....	99	35	10	6	150
Phosphate of soda.....	117	25	6	0	148
	336	86	20	6	448

2 GEORGE V., A. 1912

Bulletin 202 (March, 1910) reports upon 151 samples of Borax ; of which

1 sample contained 1.0 milligram per 100 grammes.

7	"	"	0.5	"	"	"
3	"	"	0.4	"	"	"
1	"	"	0.3	"	"	"
4	"	"	0.2	"	"	"

The accompanying report deals with an examination of 134 samples of effervescing phosphate of soda, purchased throughout Canada. Of this number, 131 samples (98 per cent of the collection) have been found entirely free from arsenic, or containing quite negligible traces. Of three samples which gave distinct reaction for arsenic, one sample contained one part in 100,000, and two samples, contained half of this amount.

The smallest medicinal dose of arsenic fixed by the British Pharmacopœia is  $\frac{1}{60}$  of a grain ; (0.001 gramme). This amount is contained in 100 grammes (about 3 ounces) of the sample 36492. Of this drug  $\frac{1}{4}$  to  $\frac{1}{2}$  ounce is the usual dose.

I beg to recommend publication of this report as Bulletin 221.

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

A. MCGILL,  
*Chief Analyst.*

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## BULLETIN No. 221.—EFFERVESCENT PHOSPHATE OF SODA.

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.  Arsenic per 100 grams.
				Quantity.	Cents.	Manufacturer.	Furnisher.		

DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.									
1910.									
Oct.	17 Eff. Phosphate of Soda.	42160	Nat. Drug & Chem. Co., Halifax, N.S.	4 oz.	25	Vendors			None.
"	"	42161	C. E. Huggins, Halifax, N.S.	"	25	H. K. Waampole Co., Perth, Ont.	Manufacturers		"
"	"	42162	J. St. Clair Coombes, Halifax, N.S.	"	25	Moyes Chemical Co., Toronto.	"		"
"	"	42163	Irwin & Sons, Halifax, N.S.	"	35	H. K. Waampole, Perth, Ont.	Nat. Drug & Chem. Co., Halifax.		"
"	"	42164	M. D. Logan, Halifax, N.S.	"	25	Nat. Drug & Chem. Co., Halifax.	Manufacturers		"
"	"	42165	Brown Bros. & Co., Halifax, N.S.	"	30	H. K. Waampole, Perth, Ont.	"		"
"	"	42166	John Rawley, Halifax, N.S.	"	25	"	"		"
"	"	42167	C. A. Barnstead, Halifax, N.S.	"	50	Jno. Wyeth & Bro., Philadelphia.	Lymans Ltd., Montreal Laboratory, Montreal.		"
"	"	42168	G. C. McDougall, Kentville, N.S.	"	25	Nat. Drug & Chem. Co., Halifax.	Manufacturers		"
"	"	42169	H. C. Wilson, Windsor, N.S.	"	25	H. K. Waampole, Perth, Ont.	"		"

## BULLETIN No. 221.—EFFERVESCENT PHOSPHATE OF SODA—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.)	Results of Analysis.
				Quantity.	Cents.			
DISTRICT OF PRINCE EDWARD ISLAND—THEO. MOORE, INSPECTOR.								
1910.								
Sept. 10	Eff. Phosphate of Soda.	45931	E. A. Foster, Charlottetown.....	$\frac{1}{2}$ lb.	20	Toronto Pharmaceutical Co., Toronto.		None.
" 10	"	45932	Geo. E. Hughes, Charlottetown...	"	20	H. K. Wampole, Perth, Ont.		"
" 10	"	45933	McKinnon Drug Co., Charlottetown.	"	15	Wyeth Bros., Philadelphia.		"
" 10	"	45934	Reddin Bros., Charlottetown.....	"	15	H. K. Wampole, Perth, Ont.		"
" 10	"	45935	J. G. Jamieson, Charlottetown....	"	20	Parke, Davis & Co., Walkerville.		"
" 13	"	45936	Johnson & Johnson, Charlottetown.	"	20	H. K. Wampole, Perth, Ont.		"
" 23	"	45937	Dr. F. W. Jardine, Kensington...	1 bot.	25	Nat. Drug & Chem. Co., St. John, N.S.	Contains 50% phosphate sodium	"
" 24	"	45938	McFadyen & McLellan, Summerside.	$\frac{1}{2}$ lb.	20	Parke Davis, Walkerville.		"
" 24	"	45939	McNeill Drug Co., Summerside..	1 bot.	25	H. K. Wampole, Perth, Ont.		"
" 27	"	45940	Gillis & Sons, Charlottetown.....	"	35	Jno. Wyeth & Bro., Philadelphia.		"

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## DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.

Sept. 12	Eff. Phosphate of Soda.	45359	Nat. Drug & Chemical Co., St. John, N.B.	St. 3 bot.	43	Nat. Drug & Chemical Co., Ltd., Montreal.	.....	Lyman Sons & Co., Canadian dist. tributors. Each teaspoonful contains 3 grains of sodium phosphate.	None.
" 15	"	45360	W. Hawker & Son, N.B.	St. John, 1 lb.	35	Jno. Wyeth & Bro., Philadelphia.	.....	.....	"
" 16	"	45361	E. Clinton Brown, St. John, N.B.	1 lb.	20	H. K. Wampole & Co., Perth, Ont.	.....	100 grains contain 50 grams of sodium phosphate.	"
" 19	"	45362	Burpee E. Brown, St. John, N.B.	1 lb.	20	Jno. Wyeth & Bro., Philadelphia.	.....	.....	"
" 19	"	45363	A. Chipman Smith & Co., St. John, N.B.	1 bot.	25	Parke Davis & Co., Walkerville.	.....	.....	"
Oct. 4	"	45364	R. T. Mack, Fredericton, N.B.	4 oz.	25	H. K. Wampole & Co., Ltd., Perth, Ont.	.....	.....	"
" 5	"	45365	D. W. C. Stevens, Woodstock, N.B.	4 "	15	Nat. Drug & Chemical Co., Ltd., Montreal.	.....	.....	"
" 18	"	45366	Leger Drug Co., Moncton, N.B.	1 lb.	35	H. K. Wampole & Co., Ltd., Perth, Ont.	.....	.....	"
" 19	"	45367	J. D. B. F. MacKenzie, Ham, N.B.	Chat-4 oz.	50	Jno. Wyeth & Bro., Philadelphia.	.....	.....	"
" 19	"	45368	A. E. Shaw, Newcastle, N.B.	4 "	25	H. K. Wampole & Co., Ltd., Perth, Ont.	.....	.....	"



## BULLETIN No. 221.—EFFERVESCENT PHOSPHATE OF SODA—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.)	Results of Analysis. — Arsenic per 100 grains.
				Quantity.	Cents.	Manufacturer.	Furnisher.		
DISTRICT OF QUEBEC—E. BELAND, INSPECTOR.									
1910.									
Sept. 12	Eff. Phosphate of Soda.	36491	Joseph Masson, 809 rue St. Valier, $\frac{1}{4}$ lb. Quebec.		40	Chas. E. Frosst & Co., Montreal.			None.
" 13	"	36492	A. Martineau, 732 rue St. Valier, $\frac{1}{2}$ " " "		30	" "			1 milligram.
" 14	"	36493	W. Brunet et Cie, 139 rue St. $\frac{1}{4}$ " " "		18	" "			None.
" 14	"	36494	Joseph, Quebec. " " " "		40	John Wyeth & Bro., Lynn's, Montreal. Philadelphia.			"
" 14	"	36495	" " " " " "		25	Parke Davis & Co. Walkerville.			"
" 14	"	36496	" " " " " "		27	S. K. Wainpole & Co., Perth, Ont.			"
" 15	"	36497	Estate Geo. P. Plamondon, 122 $\frac{1}{4}$ " " " "		50	Parke Davis & Co., Walkerville.			"
" 15	"	36498	Ludger E. Martel, 91 rue St. $\frac{1}{4}$ " " " "		30	" "			"
" 15	"	36499	Joseph, Quebec. " " " "		45	Wyeth Bros., Philadelphia.			"
" 15	"	36500	" " " " " "		35	H. K. Wainpole & Co., Perth, Ont.			"

## SESSIONAL PAPER No. 14

## DISTRICT OF ST. HYACINTHE—J. J. COSTIGAN, ACTING-INSPECTOR.

Sept. 17	Eff. Phosphate Soda.	41033 Dr. Viger, St. Hyacinthe	... 3 lb.	25	.....	.....	None.
" 17	"	41034 J. H. E. Brodeur, St. Hyacinthe	1 bot.	25	Nat. Drug & Chem. Co., Ltd.	.....	"
" 19	"	41035 W. H. Griffiths, Sherbrooke	"	25	Parke Davis & Co.	.....	"
" 19	"	41036 A. E. DuBerger, " "	"	50	Jno. Wyeth & Bro.	.....	"
" 20	"	41037 J. C. Sutherland, Richmond, P.Q.	3 lb.	25	Chas. E. Frosst & Co.	.....	"
" 20	"	41038 J. C. Bedard " "	1 bot.	50	Jno. Wyeth & Bro.	.....	"
Oct. 4	"	41039 Dr. C. P. Verdun, Granby	"	25	Nat. Drug & Chem. Co., Ltd.	.....	"
" 5	"	41040 T. H. Welch, Waterloo	"	25	Nat. Drug & Chem. Co., Ltd.	.....	"
" 5	"	41041 A. Vaillancourt " "	"	35	Parke Davis & Co.	.....	"
" 5	"	41042 Wright & Co., St. Johns, P.Q.	"	35	Chas. E. Frosst & Co., Montreal.	.....	"

## DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.

Sept. 15	Eff. Phosphate Soda.	40748 Quenneville & Guerin, 2,002 St. Lawrence B., Montreal.	1 bot.	35	H. K. Wampole & Co., Perth, Ont.	.....	None.
" 15	"	40749 J. E. Bergeron, M.D., 334 Clark St., Montreal.	2 "	50	Parke Davis & Co.	.....	"
" 15	"	40750 F. E. Morgan, 181 Fairmount, Montreal.	1 "	25	Chas. E. Frosst & Co.	.....	"
" 16	"	40751 Jno. J. Weinfield, 458 St. Lawrence B., Montreal.	3 lb.	25	.....	.....	"
" 16	"	40752 Henry R. Gray, 198 St. Lawrence B., Montreal.	1 bot.	25	Nat. Drug & Chem. Co. of Canada, Ltd.	.....	"
" 22	"	40753 F. E. Morgan, 43 Prince Arthur St., Montreal.	3 lb.	25	Nat. Drug & Chem. Co. of Can., Ltd.	.....	"
" 22	"	40754 Romeo Casgrain, 440 St. Catherine E., Montreal.	1 bot.	50	Jno. Wyeth & Bro.	.....	"
" 22	"	40755 J. H. Nault, 42 St. Catherine E., Montreal.	3 lb.	25	Parke Davis & Co.	.....	"
" 22	"	40756 X. Bourque, 20 St. Catherine W., Montreal.	1 bot.	25	Nat. Drug & Chem. Co. of Can., Ltd.	.....	"
" 22	"	40757 Nat. Pat. Medicine Co., 294 St. Lawrence B., Montreal.	1 "	25	Wampoles	.....	"

## BULLETIN NO. 221.—EFFERVESCENT PHOSPHATE OF SODA—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.)	Results of Analysis. — Arsenic per 100 grams.
				Quantity.	Cents.			
DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.								
1910.								
Sept. 9	Eff. Phosphate Soda.	43121	S. E. Johnston, Arnprior.....	1 lb.	20	Nat. Drug & Chem. Co., Ltd.	.....	None.
" 13	"	43122	E. H. Elridge, Vankleek Hill...	"	20	Wyeth Bro. ....	Wyeth's.	"
" 14	"	43123	F. A. Girdwood, Perth, Ont. ....	"	20	H. K. Wampole & Co., Perth, Ont.	.....	"
" 21	"	43124	James Clark, Renfrew. ....	"	20	Wyeth Bro. ....	.....	"
" 27	"	43125	W. F. Garland, Ottawa.....	"	25	H. K. Wampole & Co., Ltd., Perth, Ont.	Wampole's.	"
" 27	"	43126	R. M. Arbutnot, Ottawa. ....	"	20	Wyeth Bro. ....	.....	"
" 28	"	43127	D. Belanger, druggist, Hull, P.Q.	"	15	Nat. Drug & Chem. Co., Ltd.	.....	"
" 28	"	43128	The Ottawa Nat. Pharmacy Co., Ltd., Dalhousie st., Ottawa.	"	19	Nat. Drug & Chem. Co., Ltd.	.....	Less than 1 a milligram.
" 28	"	43129	J. A. Musgrove, Ottawa.....	"	30	Wyeth Bro. ....	.....	None.
" 28	"	43130	Allen & Cochrane, Ottawa.....	"	15	Parke Davis & Co. ....	Manufacturers.	"

## SESSIONAL PAPER No. 14

## DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.

Oct.	4	Eff. Phosphate Soda.	46544 F. Hoag, Kingston	1 lb.	25	.....	Moyes Chem. Co., Toronto.	.....	None.
"	4	"	46545 C. S. Prouse, Kingston	"	15	.....	"	.....	"
"	4	"	46546 A. P. Chown, Kingston	"	15	.....	Toronto Pharmaceutical Co.	.....	"
"	4	"	46547 W. W. Gibson, Kingston	3 lbs.	75	.....	H. Wampole, Perth, Ont.	.....	"
"	4	"	46548 L. T. Best, Kingston	$\frac{1}{4}$ lb.	25	.....	.....	.....	"
"	10	"	46549 A. C. Greens, Belleville	"	15	.....	Parke Davis Co., Walkerville.	.....	"
"	10	"	46550 J. S. McKnowns, Belleville	"	20	.....	Wampole, Perth	.....	"
"	11	"	46551 McDermide & Jury, Peterboro	3 bots.	75	.....	Parke Davis Co., Walkerville.	.....	"
"	11	"	46552 Warne Drug Co., Peterboro	$\frac{1}{4}$ lb.	20	.....	Wampole	.....	"
"	11	"	46553 W. Madill, Peterboro	"	15	.....	Moyes Chem. Co.	.....	"

## DISTRICT OF TORONTO—H. J. DAGGER, INSPECTOR.

Sept.	13	Eff. Phosphate of Soda.	45159 R. W. W. McIntyre, 388 Queen St. W., Toronto.	4 oz.	25	H. K. Wampole & Co. Ltd., Perth, Ont.	.....	Wampoles	None.
"	13	"	45160 G. W. Terrior, 233 College St., Toronto	"	25	The Moyes Chemical Co. Ltd., Toronto.	.....	Moyes	"
"	14	"	45161 The F. E. Karn Co., Ltd., Queen St. E., Toronto.	"	35	Jno. Wyeth & Bros., Philadelphia.	.....	Wyeths.	"
"	16	"	45162 W. J. Nichol, 170 King St. E., Toronto.	"	35	Toronto Pharmaceutical Ltd., Toronto.	.....	Toronto Pharmaceutical Co.	"
"	16	"	45163 C. P. Plater, 1340 Queen St. W., Toronto.	"	25	Parke Davis & Co., Walkerville.	.....	Parke Davis & Co.	"
"	20	"	45164 C. J. Channingham, 426 Kings St. W., Toronto.	"	25	Nat. Drug & Chemical Co., Hamilton.	.....	Nat. Drug & Chemical Co.	"
"	20	"	45165 Hawkins Ltd., 613 Barton St., Toronto.	"	20	Nat. Drug & Chemical Co., Hamilton.	.....	Nat. Drug & Chemical Co.	"
"	22	"	45166 Dr. Lang and J. J. Gilchrist, Owen Sound.	"	20	H. K. Wampole & Co., Ltd., Perth, Ont.	.....	Wampoles	"
"	23	"	45167 D. A. Cameron & Co., Owen Sound	"	25	Lynans Ltd., Montreal and Toronto.	.....	Lynans Ltd.	"
"	26	"	45168 J. E. Willis, Whitby	"	20	E. G. West & Co., Toronto.	.....	E. J. West & Co.	"

BULLETIN No. 221—EFFERVESCENT PHOSPHATE OF SODA—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).	Results of Analysis. — Arsenic per 100 grams.	
				Quantity.	Cents.	Manufacturer.	Furnisher.			
DISTRICT OF LONDON—T. KIDD, INSPECTOR.										
1910.										
Sept. 20	Eff. Phosphate of Soda.	44618	D. S. Marrow, Beeton.....	1 lb.	20	Nat. Drug Co., Hamilton Toronto.			None.	
" 26	"	44628	E. A. Robertson, Stratford.....	1	20	Moyes Chemical Co., Toronto.			"	
" 28	"	44637	Chas. Aberhart, Seaforth.....	1	25	Parke Davis & Co., Walkerville.			"	
" 28	"	44639	W. S. R. Holmes, Clinton.....	1	25	Parke Davis & Co., Walkerville.			"	
" 29	"	44643	Nat. Drug Co., Toronto.....	1	15	Nat. Drug Co., Toronto.	Moyes Chemical Co., Toronto.		"	
" 29	"	44644	H. C. Dunlop, Goderich, ...	1	25	Moyes Chemical Co., Toronto.			"	
" 30	"	44654	Fred A. Hind, Wingham.....	1	25	Lyman Bros., & Co., Toronto.			"	



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## DISTRICT OF WINDSOR—JOHN TALBOT, INSPECTOR.

Oct.	3	Eff. Phosphate of Soda.	42443	F. A. Lenon & Co., St. Thomas.	6 oz.	25	.....	.....	Moyes Chemical Co., Toronto.	.....	None.
"	3	"	42447	W. W. Taylor, St. Thomas.	"	25	.....	.....	Moyes Chemical Co., Toronto.	.....	"
"	3	"	42453	R. E. Crane, St. Thomas.	"	20	.....	.....	Canada Pharmaceutical Co.	.....	"
"	3	"	42459	J. E. Richards & Co., Aylmer.	† lb.	15	.....	.....	Moyes Chemical Co., Toronto.	Moyes	"
"	4	"	42467	Em. A. Campbell, Aylmer.	6 oz.	20	.....	.....	Shuttleworth Chemical Co., Toronto.	.....	"
"	4	"	42470	W. A. McCollon, Tilsonburg.	"	25	.....	.....	National Drug Co., London.	National	"
"	5	"	42475	W. S. McDonald, Tilsonburg.	"	30	.....	.....	Drug Trading Co., Toronto.	.....	"
"	6	"	42484	J. S. Pepper, Woodstock.	"	40	.....	.....	Parke Davis, Walkerville.	.....	"

## DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR.

Sept.	22	Eff. Phosphate of Soda.	43974	National Drug & Chemical Co., Calgary.	1 bot.	20	.....	.....	Parke Davis & Co., Walkerville.	.....	"
"	23	"	43975	R. Harvey, Calgary.	"	50	.....	.....	"	.....	"
"	23	"	43976	Bruce Drug Store, Calgary.	"	50	.....	.....	H. K. Wampole & Co. Perth.	.....	"
"	24	"	43977	Oliver Bros., Calgary.	"	50	.....	.....	Parke Davis & Co.	.....	"
"	24	"	43978	McDermaid Drug Co., Ltd., Calgary.	"	50	.....	.....	"	.....	"
"	29	"	43979	H. L. Higgs, Wetaskiwin.	"	50	.....	.....	.....	.....	"
"	29	"	43980	J. H. Walker, Wetaskiwin.	"	50	.....	.....	C. Frosst & Co., Montreal.	.....	"
"	30	"	43981	E. M. Carpenter, Edmonton.	"	50	.....	.....	J. Wyeth & Bro., Philadelphia.	.....	"
"	30	"	43982	Lavell Pharmacy, Edmonton.	"	35	.....	.....	Nat. Drug Co., Ltd.	.....	"
"	30	"	43983	J. H. Lives, Edmonton.	"	35	.....	.....	Parke Davis & Co., Walkerville.	.....	"

BULLETIN No. 221—EFFERVESCENT PHOSPHATE OF SODA—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.)	Results of Analysis.  Arsenic per 100 Grams
				Quantity.	Cents.			
DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.								
1910.								
Oct.	6 Eff. Phosphate of Soda.	38034	D. D. Curtis & Co., New Westminster.	4 lb.	35	Parker, Davis & Co., Toronto.	.....	None.
"	"	38035	F. A. Muir & Co., New Westminster.	"	35	National Drug & Chemical Co.	.....	"
"	"	38036	Post Office Drug Store, Vancouver.	"	30	H. Wampole & Co., Perth	.....	"
"	"	38037	Marrett & Reid, Vancouver.	"	75	Jno. Wyeth & Co., Montreal.	.....	"
"	"	38038	Vancouver Drug Co., Vancouver.	"	35	Chas. E. Frosst & Co., London.	.....	"
"	"	38039	H. W. Ferguson & Co., Vancouver.	"	40	Lorimer & Co., London.	.....	"
"	"	38040	Campbell Burns Drug Co., Vancouver.	"	50	Henderson Bros., Vancouver.	.....	"
"	"	38041	Woods Pharmacy, Vancouver.	"	75	W. R. Warner & Co., Philadelphia.	.....	"
"	"	38042	McDuffee Bros., Vancouver.	"	50	Jno. Wyeth & Bro., Philadelphia.	.....	"
"	"	38043	David Spencer, Ltd., Vancouver.	"	35	Chas. E. Frosst & Co., London.	.....	$\frac{1}{2}$ milligram

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## DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.

Oct.	20	Eff. Phosphate of Soda.	45000	D. E. Campbell, Victoria	1	25	Lyman Sons, Ltd., Montreal	.....	None.
"	20	"	47501	Jno. Cochrane, Victoria	1	25	National Drug & Chemical Co., Ltd., Victoria	.....	"
"	20	"	47502	W. S. Terry, Victoria	1	50	Jno. Wyeth & Bro., Philadelphia	.....	"
"	20	"	47503	Hall & Co., Victoria	1	35	Parke, Davis & Co., Walkerville	.....	"
"	20	"	47504	Wm. Jackson & Co., Victoria	1	35	Lyman, Ltd., Montreal	.....	"
"	20	"	47505	F. J. Williams, Victoria	1	50	Jno. Wyeth & Bro., Philadelphia	.....	"
"	20	"	47506	Geo. A. Fraser, Victoria	1	35	H. K. Wampole & Co., Perth	.....	"
"	24	"	47507	Neil Drug & Chemical Co., Victoria	1	25	National Drug & Chemical Co., Montreal	.....	"
"	24	"	47508	Dean & Hiscocks, Victoria	1	40	Parke, Davis & Co., Walkerville	.....	"
"	24	"	47509	B. C. Drug Co., Ltd., Victoria	1	25	"	.....	"

## APPENDIX Q.

## BULLETIN No. 222—CREAM OF TARTAR.

OTTAWA, December 12, 1910.

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

SIR,—I beg to hand you a report upon 339 samples of Cream of Tartar, purchased throughout the Dominion in September and October of this year.

Instructions were given to our inspectors to distinguish between samples obtained from druggists, and those obtained from grocers. I have arranged the report accordingly; and table I shows the results of examination of 130 samples obtained from druggists; while table II shows the results of examination of 209 samples from grocery shops.

Cream of Tartar has been made the subject of study on nine different occasions since 1887. It has always been found to show more or less adulteration, in the sense of having another article of less value, and of doubtful wholesomeness, substituted for it. The most usual adulterant of this kind is a mixture of burnt alum, acid-phosphate of lime and sulphate of lime, with starch. This form of adulteration is distinctly on the decline, and the present report shows only 25 samples, or about 7 per cent of the total collection, to be thus adulterated.

The only legal standard for Cream of Tartar now in force is that fixed by the British Pharmacopœia, which requires that Cream of Tartar shall contain 97.5 per cent of bitartrate of potash. Only 26 per cent of the samples now reported reach this high standard. I have in a previous report (See Bull. 195) made the suggestion that a distinction be recognized between Cream of Tartar, and purified or refined Cream of Tartar, this latter being the article as defined by the Pharmacopœia.

This appears to be reasonable, from the fact that the crude materials, (argols, &c.,) from which the Cream of Tartar is prepared, are so restricted in their origin as to make the market easily controllable, and to place this article out of the reach of many grinders, who can only avail themselves of the partly refined product. This is usually of about 90 to 95 per cent bitartrate, the remainder being neutral tartrate of lime, with a small percentage of sulphate.

While not possessing the absolute value of refined Cream of Tartar, it cannot be described as harmful to health, and it is in fact, the substance which has been known as Cream of Tartar for more than a century, and from whose use as a baking material, Cream of Tartar has acquired its vogue.

Sixty eight (68) per cent of the samples now reported, are genuine Cream of Tartar, in the sense that they are not substitutes for the article, although they do not reach the pharmacopœal standard. I think it not unreasonable that these should be recognized as genuine, provided that the content of bitartrate of potash, which alone gives them a value, reach a prescribed minimum limit.

So far as my experience goes, I feel justified in recommending a limit of 90 per cent of bitartrate for commercial Cream of Tartar. Samples containing less than this amount, should be distinctly labelled and sold as of *low grade*. For purposes of this

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report, I have classified the samples herein referred to, according to the definition above given. The report may be summarized thus :—

	SAMPLES ANALYZED.		PERCENTAGE.		Percentage on total.
	Druggists.	Grocers.	Druggists.	Grocers.	
Total samples.....	130	209	.....	.....	.....
Up to B. P. Standard.....	31	57	23	27	26
Up to Commercial Standard ...	83	117	64	56	60
Below " " .....	9	17	6	8	7
Adulterated.....	7	18	5	9	7

It will be noted that Cream of Tartar as sold by Canadian druggists is not a better article than is to be found in grocery shops. This is certainly matter for surprise, since the druggists should keep in view the pharmacopœal standard of purity.

If a distinction is legally made between Cream of Tartar of commercial quality and refined Cream of Tartar of Pharmacopœal quality, there will naturally come about an adjustment of prices ; because a 90 per cent article is truly worth only nine-tenths the value of an article of 100 per cent purity.

I beg to recommend publication of this report as Bulletin No. 222.

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

A. MCGILL,  
*Chief Analyst.*

NOTE 1. Owing to the destruction by fire of the laboratories of the Inland Revenue Department on the 4th January, there has been some delay in publishing this Bulletin.

NOTE 2. In the case of samples of Lemon Oil, Nos. 43631 and 43633 reported in Bulletin 198. and there stated to yield only 2-10ths of 1 per cent of Lemon Oil, the accuracy of this finding has been questioned. Under ordinary circumstances it would be possible to check the analyses by work done upon the duplicate samples in the hands of the vendors, or upon those filed with the Hon. the Minister of Inland Revenue, under Section 15 (2) of the Adulteration Act.

The first mentioned duplicates were unfortunately lost in the mails, and the last were destroyed by the fire of the 4th January. It is considered proper to state the facts of the case, as now done.



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BULLETIN No. 222—CREAM OF TARTAR—

TABLE

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—

1910								
Oct.	17	Cream of Tartar.	42118	Nat. Drug & Chem. Co., Halifax, N.S.	3 pkg.	20	Vendors.....	Sovereign brand
"	17	" ..	42124	Jas. D. Walsh, Halifax, N.S.	8 oz.	20	Unknown ....	Forsyth, Sutcliffe & Co., Halifax.
"	17	" ..	42126	J. McD. Taylor, Halifax, N.S.	8 "	20	Nat. Drug and Chem. Co., Halifax.	Manufacturers
"	17	" ..	42127	A. H. Buckley, Halifax, N.S.	8 "	20	" ..	" ..
"	18	" ..	42131	C. E. Huggins, Halifax, N.S.	8 "	20	" ..	" ..
"	18	" ..	42134	J. St. Clair Coombs, Halifax, N.S.	8 "	20	" ..	" ..
"	18	" ..	42135	Irwin & Sons, Halifax, N.S.	8 "	20	" ..	" ..
"	18	" ..	42136	M. D. Logan, Halifax, N.S.	8 "	15	" ..	" ..
"	20	" ..	42139	J. D. Clark, Kentville, N.S.	8 "	20	" ..	" ..
"	20	" ..	42140	H. C. Wilson, Windsor, N.S.	8 "	20	Lymans, Ltd., Montreal.	" ..
"	20	" ..	42141	R. B. Dakin, Windsor, N.S.	8 "	20	Unknown ...	" ..

DISTRICT OF PRINCE EDWARD ISLAND—

Sept.	10	Cream of Tartar.	45901	E. A. Foster, Charlottetown.	$\frac{1}{2}$ lb.	20	Nat. Drug Co., Halifax.	
"	10	" ..	45902	G. E. Hughes, Charlottetown.	$\frac{1}{2}$ "	20	Lyman & Sons, Montreal.	
"	10	" ..	45903	Gillis & Sons, Charlottetown.	$\frac{1}{2}$ "	25	Nat. Drug Co., Halifax.	
"	12	" ..	45904	McKinnon Drug Co., Charlottetown.	$\frac{1}{2}$ "	20	Lymans, Ltd., Montreal.	
"	12	" ..	45905	Reddin Bros., Charlottetown.	$\frac{1}{2}$ "	20	" ..	
"	12	" ..	45906	Johnson & Johnson, Charlottetown.	$\frac{1}{2}$ "	20	Carvell Bros., Charlottetown.	
"	13	" ..	45907	G. A. B. McDonald, Charlottetown.	$\frac{1}{2}$ "	20	Lymans, Ltd., Montreal.	
"	23	" ..	45908	Keir & McFadyen, Kensington.	$\frac{1}{2}$ "	20	Nat. Drug Co., Halifax.	
"	24	" ..	45909	P. N. Enman, Summerside.	$\frac{1}{2}$ "	20	Unknown ....	
"	24	" ..	45910	A. W. P. Gourlie, Summerside.	$\frac{1}{2}$ "	20	Nat. Drug Co., St. John, N.B.	

## SESSIONAL PAPER No. 14

## AS PURCHASED IN DRUG SHOPS.

I.

RESULTS OF ANALYSIS.											
Preliminary Examination.				Determinations.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.		

R. J. WAUGH, INSPECTOR.

p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
None.	None.	None.	485	.....	.....	.....	.....	.....	.....	91.18	42118	Commercial standard.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	42124	" "
"	"	"	460	.....	.....	.....	.....	.....	.....	86.48	42126	Low grade.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	42127	Commercial standard.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	42131	" "
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	42134	" "
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	42135	" "
"	"	"	475	.....	.....	.....	.....	.....	.....	89.30	42136	" "
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	42139	" "
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	42140	Up to B. P. standard.
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	42141	Commercial standard.

THEO. MOORE, INSPECTOR.

None.	None.	None.	505	.....	.....	.....	.....	.....	.....	94.94	45901	Commercial standard.
"	"	"	532	.....	.....	.....	.....	.....	.....	100.00	45902	Up to B. P. standard.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	45903	Commercial standard.
"	"	"	532	.....	.....	.....	.....	.....	.....	100.00	45904	Up to B. P. standard.
"	"	"	532	.....	.....	.....	.....	.....	.....	100.00	45905	" "
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	45906	Commercial standard.
"	"	"	532	.....	.....	.....	.....	.....	.....	100.00	45907	Up to B. P. standard.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	45908	Commercial standard.
"	"	"	470	.....	.....	.....	.....	.....	.....	88.36	45909	Low grade.
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	45910	Commercial standard.

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## BULLETIN No. 222—CREAM OF TARTAR—

TABLE

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								
1910.								
Oct. 12	Cream of Tartar.	45324	Nat. Drug & Chem. Co., Ltd., St. John, N.B.	$\frac{1}{2}$ lb...	13	Vendors.....		
" 15	" ..	45325	The Can. Drug Co., St. John, N.B.	$\frac{1}{2}$ " ..	15	.....	H. W. Cole, Ltd., St. John, N.B.	
" 15	" ..	45326	W. Hawker & Son, St. John, N.B.	$\frac{1}{2}$ " ..	20	.....	Howard & Sons, London, Eng.	
" 16	" ..	45327	E. Clinton Brown, St. John, N.B.	$\frac{1}{2}$ " ..	20	E. W. Gillette Co., Ltd., Toronto.		Gillette's Cream of Tartar.
" 16	" ..	45328	R. H. Robb, St. John, N.B.	$\frac{1}{2}$ " ..	15	.....	Nat. Drug & Chem. Co., Ltd., St. John, N.B.	
" 4	" ..	45329	Alonzo Staple, Fredericton, N.B.	$\frac{1}{2}$ " ..	20	S. H. Ewing & Sons, Montreal.		
" 5	" ..	45330	The Baird Co., Ltd., Woodstock, N.B.	$\frac{1}{2}$ " ..	15	Vendors.....		
" 8	" ..	45331	H. S. Wade, Grand Falls, N.B.	$\frac{1}{2}$ " ..	20	.....	Nat. Drug & Chem. Co., Ltd., St. John, N.B.	
" 18	" ..	45332	Jones Drug Co., Moncton, N.B.	$\frac{1}{2}$ " ..	15	.....	" ..	
" 21	" ..	45333	McCarthy Drug Co., Bathurst.	$\frac{1}{2}$ " ..	20	.....	The Can. Drug Co., Ltd., St. John, N.B.	

## DISTRICT OF QUEBEC—

Sept. 12	Cream of Tartar.	36476	Joseph Masson, 808 Rue St. Valier, Quebec.	$\frac{1}{2}$ lb...	20	Unknown .....		
" 13	" ..	36477	A. Martineau, 734 Rue St. Valier, Quebec.	$\frac{1}{2}$ " ..	20	" .....	W. Brunet & Cie, Quebec.	
" 14	" ..	36478	W. Brunet & Cie, 139 Rue St. Joseph, Quebec.	$\frac{1}{2}$ " ..	14	" .....	Unknown.....	
" 15	" ..	36479	Estate Geo. P. Plamondon, 122 Rue St. Joseph, Quebec.	$\frac{1}{2}$ " ..	25	" .....		
" 15	" ..	36480	Ludger E. Martel, 91 Rue St. Joseph, Quebec.	$\frac{1}{2}$ " ..	15	" .....	Unknown.....	

SESSIONAL PAPER No. 14

AS PURCHASED IN DRUG SHOPS.

I.

RESULTS OF ANALYSIS.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Preliminary Examination.				Determinations.								
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		

J.C. FERGUSON, INSPECTOR.

p.c.	p.c.	p.c.	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.	p.c.		
None.	None.	None.	530	.....	.....	.....	.....	.....	.....	99·64	45324	Up to B. P. standard.
"	"	"	475	.....	.....	.....	.....	.....	.....	89·30	45325	Commerical standard.
"	"	"	525	.....	.....	.....	.....	.....	.....	98·70	45326	Up to B. P. standard.
"	"	"	530	.....	.....	.....	.....	.....	.....	99·64	45327	" "
"	"	"	500	.....	.....	.....	.....	.....	.....	94·00	45328	Commerical standard.
"	"	"	475	.....	.....	.....	.....	.....	.....	89·30	45329	" "
"	"	"	470	.....	.....	.....	.....	.....	.....	88·36	45330	Low grade.
"	"	"	490	.....	.....	.....	.....	.....	.....	92·12	45331	Commerical standard.
"	"	"	480	.....	.....	.....	.....	.....	.....	90·24	45332	" "
"	"	"	475	.....	.....	.....	.....	.....	.....	89·30	45333	" "

E. BELAND, INSPECTOR.

Pre-sent.	Pre-sent.	Pre-sent.	470	1·92	Maize	0·21	5·40	5·32	9·90	.....	36476	Adulterated.
"	"	"	435	4·28	"	1·89	0·40	9·44	10·00	.....	36477	"
"	"	"	450	4·22	"	2·02	1·10	10·54	14·00	.....	36478	"
"	"	"	475	2·46	"	0·34	6·50	6·52	10·00	.....	36479	"
None.	None.	None.	470	..	.....	.....	.....	.....	.....	88·36	36480	Low grade.

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## BULLETIN No. 222—CREAM OF TARTAR—

TABLE

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—								
1910.								
Sept. 16	Cream of Tartar.	36481	Charles S. Delisle, 379½ Rue St. Jean, Quebec.	½ lb ..	15	Unknown .....	Unknown.....	
" 16	" ..	36482	Alfred L. Joliceur, 338 Rue St. Jean, Quebec.	½ " ..	25	" .....	" .....	
" 16	" ..	36483	F. C. Lacherotiere, 224 Rue St. Jean, Quebec.	½ " ..	25	" .....	" .....	
" 16	" ..	36484	J. E. Turcot, 117 Rue St. Jean, Quebec.	½ " ..	35	" .....	Lymans Ltd.,	
" 16	" ..	36485	Jos. E. Dubé, 39 Rue St. Jean, Quebec.	½ " ..	25	" .....	" .....	
DISTRICT OF ST. HYACINTHE—								
Sept. 17	Cream of Tartar.	41008	Dr. Viger, St. Hyacinthe.	½ lb ..	20	.....	.....	
" 17	" ..	41009	J. H. E. Brodeur, St. Hyacinthe.	½ " ..	20	.....	.....	
" 19	" ..	41011	W. H. Griffiths, Sherbrooke, P.Q.	½ " ..	25	.....	.....	
" 19	" ..	41012	J. B. McBain, Sherbrooke, P.Q.	½ " ..	25	.....	.....	
" 19	" ..	41013	F. T. Ansell, Sherbrooke, P.Q.	½ " ..	25	.....	.....	
" 19	" ..	41019	A. E. DuBerger, Sherbrooke, P.Q.	½ " ..	25	.....	.....	
" 20	" ..	41026	F. D. Hewett, Sherbrooke, P.Q.	½ " ..	30	.....	.....	
" 20	" ..	41027	J. C. Sutherland, Richmond, P.Q.	½ " ..	20	Lymans Ltd..	.....	
" 20	" ..	41028	J. C. Bedard, Richmond, P.Q.	½ " ..	18	.....	Lyman Knox Co.	
" 20	" ..	41029	L. S. Browne, Granby, P.Q.	½ " ..	25	Lymans Ltd..	.....	
DISTRICT OF MONTREAL—								
Sept. 12	Cream of Tartar.	40704	Dr. J. LeGue & Cie., St. Catherine E., Montreal.	½ lb ..	25	.....	.....	
" 12	" ..	40705	Jos. Pigeon, 412 Notre Dame W., Montreal.	½ " ..	25	.....	.....	
" 12	" ..	40706	Raoul Raizenne, 701 Notre Dame W., Montreal.	½ " ..	15	.....	.....	



SESSIONAL PAPER No. 14

AS PURCHASED IN DRUG SHOPS.

I.

RESULTS OF ANALYSIS.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Preliminary Examination.				Determinations.								
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		

E. BELAND, INSPECTOR—*Continued.*

p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
None.	None.	None.	530	.....	.....	.....	.....	.....	.....	99·64	36481	Up to B. P. standard
Pre-sent.	Pre-sent.	Pre-sent.	475	1·82	Maize	0·29	2·75	7·10	14·90	.....	36482	Adulterated.
"	"	"	450	5·70	"	0·72	7·70	7·38	15·50	.....	36483	"
None.	None.	None.	475	.....	.....	.....	.....	.....	.....	89·30	36484	Commercial standard.
"	"	"	475	.....	.....	.....	.....	.....	.....	89·30	36485	" "

J. J. COSTIGAN, ACTING INSPECTOR.

None.	None.	None.	480	.....	.....	.....	.....	.....	.....	90·24	41068	Commercial standard.
"	"	"	480	.....	.....	.....	.....	.....	.....	90·24	41069	"
"	"	"	530	.....	.....	.....	.....	.....	.....	99·64	41011	Up to B.P. standard.
"	"	"	500	.....	.....	.....	.....	.....	.....	94·00	41012	Commercial standard.
"	"	"	495	.....	.....	.....	.....	.....	.....	93·06	41013	"
"	"	"	480	.....	.....	.....	.....	.....	.....	90·24	41019	"
"	"	"	525	.....	.....	.....	.....	.....	.....	98·70	41026	Up to B.P. standard.
"	"	"	485	.....	.....	.....	.....	.....	.....	91·18	41027	Commercial standard.
"	"	"	490	.....	.....	.....	.....	.....	.....	92·12	41028	"
"	"	"	485	.....	.....	.....	.....	.....	.....	91·18	41029	"

J. J. COSTIGAN, INSPECTOR.

None.	None.	None.	480	.....	.....	.....	.....	.....	.....	90·21	40704	Commercial standard.
"	"	"	520	.....	.....	.....	.....	.....	.....	97·76	40705	Up to B.P. standard.
Pre-sent	Pre-sent.	Pre-sent.	515	10·08	Maize	1·47	19·15	8·17	28·00	.....	40706	Adulterated.

2 GEORGE V., A. 1912

## BULLETIN No. 222—CREAM OF TARTAR—

TABLE

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—

1910								
Sept. 12	Cream of Tartar.	40707	J. O. Poitras, 1510 St. James W., Montreal.	$\frac{1}{2}$ lb..	20	.....	.....	.....
" 13	" ..	40708	J. A. Prevost, 662 St. Denis, Montreal	$\frac{1}{2}$ " ..	20	.....	.....	.....
" 13	" ..	40709	E. J. Nadeau, 953 St. Denis, Montreal	$\frac{1}{2}$ " ..	25	.....	.....	.....
" 13	" ..	40710	J. L. H. Valois, 470 Rachel St., Montreal.	$\frac{1}{2}$ " ..	20	.....	.....	.....
" 13	" ..	40711	L. J. Lafontaine, 471 Mount Royal Ave., Montreal.	$\frac{1}{2}$ " ..	20	Lymans Ltd.	.....	.....
" 13	" ..	40712	A. Brillon, 1185 St. Denis St., Montreal.	$\frac{1}{2}$ " ..	20	Nat. Drug & Chem. Co., Ltd.	.....	.....
" 13	" ..	40713	Dr. R. J. Charette, 153 Mount Royal Ave., E. Montreal.	$\frac{1}{2}$ " ..	20	.....	.....	.....

## DISTRICT OF OTTAWA—

Sept. 7	Cream of Tartar.	43069	Beattie & Argue, Ottawa.	$\frac{1}{2}$ lb..	25	Unknown ....	Nat. Drug & Chem. Co., Ltd. Ottawa.	.....
" 8	" ..	43073	F. W. Day, Ottawa	$\frac{1}{2}$ " ..	25	" ....	Lymans, Ltd., Montreal.	.....
" 9	" ..	43076	S. E. Johnston, Arnprior.	$\frac{1}{2}$ " ..	20	" ..	Forbes Bros., Montreal.	.....
" 13	" ..	43077	Dr. McIntosh, Vankleek Hill.	$\frac{1}{2}$ " ..	20	" ....	L. Chaput fils & Co., Montreal.	.....
" 14	" ..	43079	F. A. Girdwood, Perth, Ont.	$\frac{1}{2}$ " ..	20	E. W. Gillett, Co. Ltd., Toronto.	Manufacturer.	.....
20	" ..	43084	W. H. Raney, Prescott.	$\frac{1}{2}$ " ..	20	Unknown ....	Lyman Knox, Montreal.	.....
" 27	" ..	43090	W. F. Garland, Ottawa.	$\frac{1}{2}$ " ..	20	" ....	Nat. Drug & Chem. Co., Ottawa.	.....
" 27	" ..	43091	R. M. Arbuthnot, Ottawa.	$\frac{1}{2}$ " ..	20	" ....	Nat. Drug & Chem. Co., Ottawa.	.....
" 28	" ..	43092	D. Belanger, Hull P.Q.	$\frac{1}{2}$ " ..	20	" ....	Nat. Drug & Chem. Co., Ottawa.	.....
28	" ..	43093	The Ottawa Nat. Pharmacy, Ltd., Ottawa.	$\frac{1}{2}$ " ..	15	" ....	Lymans, Ltd., Montreal.	.....

## SESSIONAL PAPER No. 14

## AS PURCHASED IN DRUG SHOPS.

I.

RESULTS OF ANALYSIS.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Preliminary Examination.				Determinations.								
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		

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

p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
None.	None.	None.	505	....	....	....	....	....	....	94·94	40707	Commercial standard.
"	"	"	480	....	....	....	....	....	....	90·24	40708	"
"	"	"	475	....	....	....	....	....	....	89·30	40709	"
"	"	"	480	....	....	....	....	....	....	90·24	40710	"
"	"	"	480	....	....	....	....	....	....	90·24	40711	"
"	"	"	485	....	....	....	....	....	....	91·18	40712	"
"	"	"	480	....	....	....	....	....	....	90·24	40713	"

## J. A. RICKY, INSPECTOR.

None.	None.	None.	525	....	....	....	....	....	....	98·70	43069	Up to B. P. Standard.
"	"	"	530	....	....	....	....	....	....	99·64	43073	" "
"	"	"	490	....	....	....	....	....	....	92·12	43076	Commercial standard.
"	"	"	480	....	....	....	....	....	....	90·24	43077	" "
"	"	"	490	....	....	....	....	....	....	92·12	43079	" "
"	"	"	505	....	....	....	....	....	....	94·94	43084	" "
"	"	"	520	....	....	....	....	....	....	97·76	43090	Up to B. P. standard.
"	"	"	490	....	....	....	....	....	....	92·12	43091	Commercial standard.
"	"	"	530	....	....	....	....	....	....	99·64	43092	Up to B. P. standard
"	"	"	532	....	....	....	....	....	....	100·00	43093	" "

2 GEORGE V., A. 1912

## BULLETIN No. 222—CREAM OF TARTAR—

TABLE

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—								
1910.								
Oct. 4	Cream of Tartar.	46519	F. Hoag, Kingston	$\frac{1}{2}$ lb.	20	.....	N. C. Polson, Kingston.	.....
" 4	" ..	46520	C. S. Prouse, Kingston.	$\frac{1}{2}$ " ..	20	Unknown ..	.....	.....
" 4	" ..	46521	A. P. Chown, Kingston.	$\frac{1}{2}$ " ..	20	.....	Lyman & Son, Montreal.	.....
" 4	" ..	46522	W. W. Gibson, Kingston.	$\frac{1}{2}$ " ..	20	.....	Drug Trading Co., Toronto	.....
" 4	" ..	46523	G. W. Mahood, Kingston.	$\frac{1}{2}$ " ..	20	.....	Lyman & Son, Montreal.	.....
" 4	" ..	46524	L. T. Best, Kingston.	$\frac{1}{2}$ " ..	20	.....	Lyman & Son, Montreal.	.....
" 10	" ..	46525	A. L. Geens, Belleville.	$\frac{1}{2}$ " ..	20	.....	Lyman & Son, Montreal	.....
" 10	" ..	46526	J. S. McKeown, Belleville.	$\frac{1}{2}$ " ..	20	.....	McLarens, Hamilton.	.....
" 11	" ..	46527	McDermid & Jury, Peterboro.	$\frac{1}{2}$ " ..	20	.....	J. A. Maclean, Toronto.	.....
" 11	" ..	46528	Warne Drug Co., Peterboro.	$\frac{1}{2}$ " ..	20	.....	Nat. Drug Co., Toronto.	.....
DISTRICT OF TORONTO—								
Sept. 14	Cream of Tartar.	45139	J. R. Lee, 256 Queen St. E., Toronto.	$\frac{1}{2}$ lb.	20	.....	The Drug Trading Co., Ltd., Toronto	.....
" 14	" ..	45140	F. W. Sievright, Wilton St., Toronto.	$\frac{1}{2}$ " ..	20	.....	" ..	.....
" 16	" ..	45141	J. A. Johnston, 171 King St., E., Toronto.	$\frac{1}{2}$ " ..	18	.....	Lyman Bros. & Co., Ltd., Toronto.	.....
" 16	" ..	45142	W. Hart, 1230 College St., Toronto.	$\frac{1}{2}$ " ..	20	.....	" ..	.....
" 20	" ..	45143	Jas. Harrison, Jas. St., Hamilton.	$\frac{1}{2}$ " ..	20	.....	The Drug Trading Co., Ltd., Hamilton.	.....
" 22	" ..	45144	T. J. Brown, Orangeville.	$\frac{1}{2}$ " ..	25	.....	Unknown ..	.....
" 22	" ..	45145	J. R. Gillespie, Orangeville.	$\frac{1}{2}$ " ..	20	.....	" ..	.....
" 23	" ..	45146	Campbell & Murphy, Orangeville.	$\frac{1}{2}$ " ..	20	.....	Nat. Drug and Chem. Co., Ltd., Toronto	.....
" 3	" ..	45147	A. W. Manley, Owen Sound.	$\frac{1}{2}$ " ..	20	.....	The Nat. Drug & Chem. Co., Ltd., Hamilton.	.....
" 23	" ..	45148	W. H. Taylor, Owen Sound.	$\frac{1}{2}$ " ..	20	J. M. Lowes Co., Toronto.	.....	.....

SESSIONAL PAPER No. 14

AS PURCHASED IN DRUG SHOPS.

I.

RESULTS OF ANALYSIS.												No. of Sample.	Remarks and Opinion of the Chief Analyst.
Preliminary Examination.						Determinations.							
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.			
p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.			
None.	None.	None.	485	.....	.....	.....	.....	.....	.....	91.18	46519	Commercial standard.	
"	"	"	470	.....	.....	.....	.....	.....	.....	88.36	46520	Low grade.	
"	"	"	520	.....	.....	.....	.....	.....	.....	97.76	46521	Up to B. P. standard.	
"	"	"	520	.....	.....	.....	.....	.....	.....	97.76	46522	" "	
"	"	"	532	.....	.....	.....	.....	.....	.....	100.00	46523	" "	
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	46524	" "	
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	46525	Commercial standard.	
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	46526	" "	
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	46527	" "	
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	46528	" "	
JAS. HOGAN, INSPECTOR.													
p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.			
None.	None.	None.	530	.....	.....	.....	.....	.....	.....	99.64	45139	Up to B. P. standard.	
"	"	"	532	.....	.....	.....	.....	.....	.....	100.00	45140	" "	
"	"	"	500	.....	.....	.....	.....	.....	.....	94.00	45141	Commercial standard.	
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	45142	" "	
"	"	"	510	.....	.....	.....	.....	.....	.....	95.88	45143	" "	
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	45144	" "	
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	45145	" "	
"	"	"	475	.....	.....	.....	.....	.....	.....	89.30	45146	" "	
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	45147	Up to B. P. standard.	
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	45148	Commercial standard.	



2 GEORGE V., A. 1912

## BULLETIN No. 222—CREAM OF TARTAR—

TABLE

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. (In not as expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF LONDON—								
1910								
Sept. 26	Cream of Tartar.	44627	Ed. Robertson, Stratford.	$\frac{1}{2}$ lb.	20		Stratford Wholesale Grocery, Stratford.	
DISTRICT OF WINDSOR—								
Oct. 3	Cream of Tartar.	42442	F. Lemon & Co., St. Thomas.	$\frac{1}{2}$ lb.	25		Drug Trading Co., Toronto	
" 3	"	42448	W. W. Taylor, St. Thomas.	$\frac{1}{2}$ "	30		Nat. Drug Co., Toronto.	
" 3	"	42455	Fred. W. Judd, St. Thomas.	$\frac{1}{2}$ "	25		Nat. Drug Co., London.	
" 3	"	42460	J. E. Richards & Co., Aylmer, Ont.	$\frac{1}{2}$ "	25	E. W. Gillette Co., Ltd., Toronto.		
" 4	"	42468	Ern. A. Campbell, Aylmer, Ont.				Drug Trading Co., Toronto	
" 4	"	42471	W. A. McCollum, Tillsonburg.	$\frac{1}{2}$ "	20	Unknown.		
" 5	"	42476	W. S. McDonald, Tillsonburg.	$\frac{1}{2}$ "	30		Drug Trading Co., Toronto	
" 5	"	42483	Frank Hyde, Woodstock.	$\frac{1}{2}$ "	20	Nat. Drug Co.		
DISTRICT OF CALGARY—								
Sept. 22	Cream of Tartar.	43919	Nat. Drug & Chem. Co., Calgary.	$\frac{1}{2}$ lb.	15		Nat. Drug & Chem. Co., Ltd., Montreal.	
" 23	"	43920	R. Harvey, Calgary	$\frac{1}{2}$ "	20		Nat. Drug & Chem. Co., Ltd., Calgary	
" 23	"	43921	The Bruce Drug Store, Calgary.	$\frac{1}{2}$ "	20		"	
" 24	"	43922	Oliver Bros., Calgary.	$\frac{1}{2}$ "	20		"	
" 24	"	43923	The McDermid Drug Co., Ltd., Calgary.	$\frac{1}{2}$ "	20		"	
" 29	"	43924	H. L. Higgs, Wetaskiwin.	$\frac{1}{2}$ "	20		"	
" 29	"	43925	J. H. Walker, Wetaskiwin.	$\frac{1}{2}$ "	30		"	
" 30	"	43926	E. M. Carpenter, Edmonton.	3 pkgs	45		Lymans Ltd., Montreal.	
" 30	"	43927	Laval Pharmacy, Edmonton.	$\frac{1}{2}$ lb.	20		"	
" 30	"	43928	J. H. Lives, Edmonton.	$\frac{1}{2}$ "	30	Blue Ribbon Mfg. Co., Winnipeg.		

AS PURCHASED IN DRUG SHOPS.

[illegible]

p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.	
None.	None.	None.	475	.....	.....	.....	.....	.....	89·30	44627	Commercial standard.

None.	None.	None.	530	99°64'	42442	Up to B. P. standard.
"	"	"	485	91°18'	42448	Commercial standard.
"	"	"	470	88°36'	42455	Low grade.
"	"	"	530	99°64'	42460	Up to B. P. standard.
"	"	"	515	96°82'	42468	Nearly up to B. P. standard.
"	"	"	490	92°12'	42471	Commercial standard.
"	"	"	510	95°88'	42476	"
"	"	"	495	93°06'	42483	"

None.	None.	None.	480	.....	.....	.....	.....	.....	90·24	43919	Commercial standard,
"	"	"	510	.....	.....	.....	.....	.....	95·88	43920	"
"	"	"	510	.....	.....	.....	.....	.....	95·88	43921	"
"	"	"	470	.....	.....	.....	.....	.....	88·36	43922	Low grade.
"	"	"	480	.....	.....	.....	.....	.....	90·24	43923	Commercial standard.
"	"	"	505	.....	.....	.....	.....	.....	94·94	43924	"
"	"	"	510	.....	.....	.....	.....	.....	95·88	43925	"
"	"	"	475	.....	.....	.....	.....	.....	89·30	43926	"
"	Pres- ent.	"	500	None.	None.	None.	None.	0·93 1·40	94·00	43927	"
"	None.	"	470	.....	.....	.....	.....	.....	88·36	43928	Low grade.

2 GEORGE V., A. 1912

## BULLETIN No. 222—CREAM OF TARTAR—

TABLE

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—								
1910.								
Oct.	5	Cream of Tartar.	38009 Brown & Beaton, Vancouver.	$\frac{1}{2}$ lb.	25		Henderson Bros., Vancouver.	
"	5	"	38010 W. E. Law, Vancouver.	$\frac{1}{2}$ "	25		Unknown	
"	5	"	38011 E. Shoff, Vancouver.	$\frac{1}{2}$ "	25		Henderson Bros.	
"	5	"	38012 McDowell Atkins Watson Co., Vancouver.	$\frac{1}{2}$ "	25		"	
"	5	"	38013 E. S. Knowlton, Vancouver.	$\frac{1}{2}$ "	25		"	
"	5	"	38014 Central Drug Store, Vancouver	$\frac{1}{2}$ "	25		"	
"	5	"	38015 Owl Drug Store, Vancouver.	$\frac{1}{2}$ "	30		"	
"	5	"	38016 McDuffee Bros., Vancouver.	$\frac{1}{2}$ "	25		"	
"	5	"	38017 Woodward Dept., Stores, Vancouver.	$\frac{1}{2}$ "	25		Unknown	
"	5	"	38018 Vancouver Drug Co., Vancouver.	$\frac{1}{2}$ "	25		W. Braid & Co., Vancouver.	
DISTRICT OF VICTORIA								
Oct.	20	Cream of Tartar.	44985 D. E. Campbell, Victoria, B.C.	$\frac{1}{2}$ lb.	40	Lyman's Sons, Ltd., Montreal.		
"	20	"	44986 Jno. Cochrane, Victoria, B.C.	$\frac{1}{2}$ "	25	"		
"	20	"	44987 W. S. Terry, Victoria, B.C.	$\frac{1}{2}$ "	30	Nat. Drug & Chem. Co., Ltd., Victoria.		
"	20	"	44988 Hall & Co., Victoria, B.C.	$\frac{1}{2}$ "	25	Lyman Bros. & Co., Toronto		
"	20	"	44989 Wm. Jackson & Co., Victoria, B.C.	$\frac{1}{2}$ "	30	Lyman Ltd., Montreal.		
"	20	"	44990 F. J. Williams, Victoria, B.C.	$\frac{1}{2}$ "	25	Nat. Drug & Chem. Co., Victoria.		
"	20	"	44991 Geo. A. Fraser, Victoria, B.C.	$\frac{1}{2}$ "	30	"		
"	24	"	44992 Nat. Drug & Chem. Co., Ltd., Victoria, B.C.	$\frac{1}{2}$ "	25	Nat. Drug & Chem. Co., Montreal.		
"	24	"	44993 Dean & Hiscocks, Victoria, B.C.	$\frac{1}{2}$ "	25	J. A. Teaporten, Vancouver.		
"	24	"	44994 B.C. Drug Co., Ltd., Victoria, B.C.	$\frac{1}{2}$ "	25	Nat. Drug & Chem. Co., Ltd., Victoria.		

## SESSIONAL PAPER No. 14

## AS PURCHASED IN DRUG SHOPS.

I.

RESULTS OF ANALYSIS.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Preliminary Examination.				Determinations.								
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		
p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
J. F. POWER, INSPECTOR.												
None.	None.	None.	485	.....	.....	.....	.....	.....	.....	91.18	38009	Commercial standard.
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	38010	" "
"	"	"	475	.....	.....	.....	.....	.....	.....	89.30	38011	" "
"	"	"	510	.....	.....	.....	.....	.....	.....	95.88	38012	" "
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	38013	" "
"	"	"	475	.....	.....	.....	.....	.....	.....	89.30	38014	" "
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	38015	" "
"	"	"	520	.....	.....	.....	.....	.....	.....	97.76	38016	Up to B. P. standard.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	38017	Commercial standard.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	38018	" "
D. O'SULLIVAN, INSPECTOR.												
None.	None.	None.	532	.....	.....	.....	.....	.....	.....	100.00	44985	Up to B. P. standard.
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	44986	Commercial standard.
"	"	"	475	.....	.....	.....	.....	.....	.....	89.30	44987	" "
"	"	"	525	.....	.....	.....	.....	.....	.....	98.70	44988	Up to B. P. standard.
"	"	"	525	.....	.....	.....	.....	.....	.....	98.70	44989	" "
"	"	"	505	.....	.....	.....	.....	.....	.....	94.94	44990	Commercial standard.
"	"	"	465	.....	.....	.....	.....	.....	.....	87.40	44991	Low grade.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	44992	Commercial standard.
"	"	"	495	.....	.....	.....	.....	.....	.....	93.06	44993	" "
"	"	"	475	.....	.....	.....	.....	.....	.....	89.30	44994	" "

2 GEORGE V., A. 1912

BULLETIN No. 222—CREAM OF TARTAR—

TABLE

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—

1910.								
Oct. 17	Cream of Tartar.	42117	J. F. Crowe & Co., Ltd., Halifax, N.S.	3 pkgs	18	W. H. Schwartz & Sons Halifax ....	Manufacturer.	Peerless Brand..
" 17	"	42119	A. L. Doyle & Co., Halifax, N.S.	3 " ..	21	" ..	" ..	" " ..
" 17	"	42120	T. J. Brown, Halifax, N.S.	3 " ..	20	Unknown ...	J. F. Crowe & Co., Halifax	.....
" 17	"	42121	W. J. Hoggood & Son, Halifax, N.S.	3 " ..	30	W. H. Schwartz & Sons Halifax.	Manufacturer.	Peerless Brand..
" 17	"	42122	City Provision Store, Halifax, N.S.	3 " ..	30	J. P. Mott & Co., Halifax	Jno Tobin & Co., Halifax	.....
" 17	"	42123	J. L. Archibald & Son, Halifax, N.S.	3 " ..	30	Forsyth Sutcliffe & Co., Halifax.	Manufacturer.	.....
" 17	"	42125	W. J. Forristall, Halifax, N.S.	3 " ..	30	Nat. Drug & Chem. Co., Halifax.	" ..	.....
" 17	"	42128	F. W. Hodgson, Halifax, N.S.	8 oz.	18	Forsyth Sutcliffe & Co., Halifax.	" ..	.....
" 18	"	42129	W. H. Schwartz & Sons, Halifax, N.S.	3 pkgs	20	Vendors.....	.....	Peerless Brand..
" 18	"	42130	T. F. Courtney & Co., Halifax, N.S.	8 oz.	20	J. P. Mott & Co., Halifax	Manufacturer.	.....
" 18	"	42132	E. B. Tracy, Halifax, N.S.	3 pkgs	24	W. H. Schwartz & Sons Halifax.	" ..	.....
" 18	"	42133	E. Donahoe & Son, Halifax, N.S.	3 " ..	30	" ..	" ..	.....
" 19	"	42137	Wentzells, Ltd., Halifax, N.S.	3 " ..	21	Jno. P. Mott & Co., Halifax	" ..	.....
" 19	"	42138	Jno. P. Mott & Co., Halifax, N.S.	3 " ..	21	Vendors .....	.....	.....

DISTRICT OF PRINCE EDWARD ISLAND—

Sept. 12	Cream of Tartar.	38785	P. A. Smith, Charlottetown.	$\frac{1}{2}$ lb. . .	18	.....	Rattenburg, Ltd., Charlottetown.	.....
" 13	"	38786	M. & A. McLeod, Charlottetown.	$\frac{1}{2}$ " ..	18	Robt. Greig & Co., Toronto	.....	.....
" 13	"	38787	J. A. Farquharson, Charlottetown.	$\frac{1}{2}$ " ..	20	Lister Pure-food Co., Toronto.	.....	Pure French Cream of Tartar, guaranteed
" 13	"	38788	W. W. Walker, Charlottetown.	$\frac{1}{2}$ " ..	18	W. H. Schwartz, Halifax.	.....	.....



SESSIONAL PAPER No. 14

AS PURCHASED IN GROCERY SHOPS.

II.

RESULTS OF ANALYSIS.												No. of Sample.	Remarks and Opinion of the Chief Analyst.
Preliminary Examination.				Determinations.									
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.			
R. J. WAUGH, INSPECTOR.													
p. c.	p. c.	p. c.	p. c.	p. c.			p. c.	p. c.	p. c.	p. c.	p. c.		
None.	None.	None.	485	.....	.....	.....	.....	.....	.....	91·18	42117	Commercial.	
"	"	"	485	.....	.....	.....	.....	.....	.....	91·18	42119	"	
"	"	"	480	.....	.....	.....	.....	.....	.....	90·24	42120	"	
"	"	"	485	.....	.....	.....	.....	.....	.....	91·18	42121	"	
"	"	"	480	.....	.....	.....	.....	.....	.....	90·24	42122	"	
"	"	"	475	.....	.....	.....	.....	.....	.....	89·30	42123	"	
"	"	"	475	.....	.....	.....	.....	.....	.....	89·30	42125	"	
"	"	"	485	.....	.....	.....	.....	.....	.....	91·18	42128	"	
"	"	"	475	.....	.....	.....	.....	.....	.....	89·30	42129	"	
"	"	"	485	.....	.....	.....	.....	.....	.....	91·18	42130	"	
"	"	"	480	.....	.....	.....	.....	.....	.....	90·24	42132	"	
"	"	"	495	.....	.....	.....	.....	.....	.....	93·06	42133	"	
"	"	"	495	.....	.....	.....	.....	.....	.....	93·06	42137	"	
"	"	"	480	.....	.....	.....	.....	.....	.....	90·24	42138	"	

THEO. MOORE, INSPECTOR.

None.	None.	None.	520	.....	.....	.....	.....	.....	.....	97·76	38785	Up to B. P. standard.
"	"	"	470	.....	.....	.....	.....	.....	.....	88·36	38786	Low grade.
"	"	"	485	.....	.....	.....	.....	.....	.....	91·18	38787	Commercial.
"	"	"	475	.....	.....	.....	.....	.....	.....	89·30	38788	"

2 GEORGE V., A. 1912

## BULLETIN No. 222—CREAM OF TARTAR—

TABLE

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								
1910.								
Sept. 13	Cream of Tartar.	38789	J. T. Maher, Charlottetown.	$\frac{1}{2}$ lb.	20	Carvell Bros., Charlottetown.		
" 14	"	38790	J. C. Crabbe, Charlottetown.	$\frac{1}{2}$ "	20	Crown Spice Co., Halifax		
" 14	"	38791	Carvell Bros., Charlottetown.	$\frac{3}{4}$ "	18	"		Guaranteed strictly pure.
" 14	"	38792	George Carver, Pownal.	$\frac{1}{2}$ "	20		Beer & Goff, Charlottetown.	
" 16	"	38793	F. W. McEachern, Cherry Valley.	$\frac{3}{4}$ lb.	30	E. W. Gillet Co., Ltd., Toronto.		
" 16	"	38794	Geo. Forbes, Vernon River Bridge.	$\frac{1}{2}$ "	18	Chaput, fils & Co., Montreal.		
" 16	"	38795	A. N. Jenkins, Oruell.	$\frac{1}{2}$ "	18	Dearborn & St. John, N.B.		
" 17	"	38796	A. D. Ross, Eldon.	$\frac{1}{2}$ "	16	Pure Gold Co., Toronto.		
" 17	"	38797	R. K. McKenzie, Flat River	$\frac{3}{4}$ "	24	J. P. Mott, Halifax.		Guaranteed strictly pure.
" 17	"	38798	D. McLaren, Bell River.	$\frac{1}{2}$ "	20	E. W. Gillet Co., Ltd., Toronto.		Guaranteed to be absolutely pure
" 17	"	38799	Joseph McCabe, Iona.	$\frac{1}{2}$ "	16		J. A. Farquharson, Charlottetown.	

## DISTRICT OF NEW BRUNSWICK—

Sept. 8	Cream of Tartar.	45309	Dearborn & Co., Ltd., St. John, N.S.	$\frac{1}{2}$ lb.	20	Vendors		
" 9	"	45310	Baird & Peters, St. John, N.B.	$\frac{1}{2}$ "	20	"		
" 9	"	45311	Northrup & Co., South Wharf, St. John, N.B.	$\frac{1}{2}$ "	15	"		
" 9	"	45312	G. S. Barbour & Co., Ltd., North Wharf, St. John, N.E.	$\frac{1}{2}$ "	15	"		
" 12	"	45313	Puddington, Wetmore & Morrison, Ltd. St. John, N.B.	3pkgs.	18	"		Signet Brand...
" 16	"	45314	T. Collins & Co., St. John, N.B.	$\frac{1}{2}$ lb.	15	"		
" 19	"	45315	Gilbert Bent & Son, South Wharf, St. John, N.B.	$\frac{1}{2}$ "	15	"		

## SESSIONAL PAPER No. 14

## AS PURCHASED IN GROCERY SHOPS.

II.

## RESULTS OF ANALYSIS.

Preliminary Examination.					Determinations.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.		
THEO. MOORE, INSPECTOR— <i>Continued.</i>											
p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.	
None.	None.	None.	475							89.30	38789 Commercial.
"	"	"	470							88.36	38790 Low grade
"	"	"	490							92.12	38791 Commercial standard.
"	Pre-sent.	"	450					5.97	5.30	84.60	38792 Low Grade.
"	"	"	530							99.64	38793 Up to B. P. standard.
"	"	"	475							89.30	38794 Commercial.
"	"	"	465							87.42	38795 Low grade.
"	"	"	500							94.00	38796 Commercial.
"	"	"	480							90.24	38797 "
"	"	"	530							99.64	38798 Up to B. P. standard.
"	"	"	500							94.00	38799 Commercial.

## J. C. FERGUSON, INSPECTOR.

None.	None.	None.	532							100.00	45309 Up to B. P. standard.
"	"	"	485							91.18	45310 Commercial.
"	"	"	485							91.18	45311 "
"	"	"	532							100.00	45312 Up to B. P. standard.
"	"	"	485							91.18	45313 Commercial.
"	"	"	470							88.36	45314 Low grade.
"	"	"	475							89.30	45315 Commercial.

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## BULLETIN No. 222—CREAM OF TARTAR—

TABLE

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.	Furnishers.	
DISTRICT OF NEW BRUNSWICK—								
1910								
Oct. 4	Cream of Tartar.	45316	G. T. Whelpley Estate, Fredericton, N.B.	3pkgs.	30	Pure Gold Mfg. Co., Toronto.		Whelpley's pure Cream of Tartar.
" 5	" ..	45317	B. H. Smith & Sons, Woodstock, N.B.	$\frac{1}{2}$ lb..	15			
" 6	" ..	45318	Benjamin Beveridge, Andover, N.B.	3pkgs.	30	G. S. Dunn & Co., Hamilton.		
" 7	" ..	45319	C. W. Lewis, Perth, N.B.	3 " ..	30	Thos. McCready & Sons, Ltd., St. John, N.B.		Diamond Brand.
" 8	" ..	45320	Peter Lagacy, Grand Falls, N.B.	3 " ..	30	J. P. Mott & Co., Halifax.		
" 18	" ..	45321	Geo. O. Stratton, Moncton, N.B.	$\frac{1}{2}$ lb..	15	Todhunter, Mitchell & Co., Toronto		
" 19	" ..	45322	S. A. Russell, New-castle, N.B.	$\frac{1}{2}$ " ..	15			
" 21	" ..	45323	Nepisiguit Lumber Co., Ltd., Bathurst, N.B.	3pkgs.	30	White Swan Spices and Cereals Ltd., Toronto.		White Swan Brand.
DISTRICT OF QUEBEC—								
Sépt. 18	Cream of Tartar.	36301	Hamel & Bedard, 728 Rue St. Valier, Quebec.	$\frac{1}{2}$ lb..	20	Unknown. ....	Turcot Frère & Cie., Quebec	
" 18	"	36302	Arthur Drolet, 714 Rue St. Valier, Quebec.	$\frac{1}{2}$ " ..	20	" .....	Nat Drug Co., Montreal.	
" 20	"	36303	A. Rinfret, 114 Rue St. Joseph, Quebec.	$\frac{1}{2}$ " ..	20	" .....	J. B. Bedard, Quebec.	
" 21	"	36304	Cantin Frère, 271 Rue St. Joseph, Quebec.	$\frac{1}{2}$ " ..	20	E. W. Gillett Co., Ltd., Toronto.	Manufacturers	
" 22	"	36305	O. Lacroix, 19 Rue St. Joseph, Quebec.	$\frac{1}{2}$ " ..	20	E. W. Gillett Co., Ltd., Toronto.	J. B. Reneaud & Cie, Quebec.	
" 23	"	36306	A. Lyonnais, 108 Rue D'Orchester, Quebec.	$\frac{1}{2}$ " ..	20	Unknown. ....	Herron & Leblanc, Montreal.	
" 23	"	36307	Dell G. A. Ernet, 120 Rue D'Orchester, Quebec.	$\frac{1}{2}$ " ..	20	" .....	Alphonse Laroché, Quebec.	
" 26	"	36308	Theophile Julien, 124 Rue D'Orchester, Quebec.	$\frac{1}{2}$ " ..	20	" .....	Unknown	

SESSIONAL PAPER No. 14

AS PURCHASED IN GROCERY SHOPS.

II.

RESULTS OF ANALYSIS.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Preliminary Examination.				Determinations.								
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		
J. C. FERGUSON, INSPECTOR— <i>Continued.</i>												
p.c.	p.c.	p.c.	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.	p.c.		
None.	None.	None.	475	.....						89.30	45316	Commercial.
"	"	"	480	.....						90.24	45317	"
pre-sent.	pre-sent.	pre-sent.	495	0.34	maize	0.67	2.60	2.40	6.90	.....	45318	Adulterated.
none.	none.	none.	485	.....						91.18	45319	Commercial.
"	"	"	475	.....						89.30	45320	"
"	"	"	485	.....						91.18	45321	"
"	"	"	480	.....						90.24	45322	"
"	"	"	525	.....						98.70	45323	Up to B. P. standard.
E. BELAND, INSPECTOR.												
None.	None.	None.	495	.....						93.06	36301	Commercial
"	"	"	480	.....						90.24	36302	"
Pre-sent.	Pre-sent.	Pre-sent.	510	0.24	Maize	0.44	8.00	6.10	12.00	.....	36303	Adulterated
None.	None.	None.	525	.....						98.70	36304	Up to B. P. standard
"	"	"	525	.....						98.70	36305	" "
Pre-sent.	Pre-sent.	Pre-sent.	475	2.22	Maize	0.97	3.98	3.70	8.40	.....	36306	Adulterated
None.	Pre-sent.	Pre-sent.	475	None.	None.	1.22	7.44	5.70	13.80	.....	36307	"
"	None.	None.	480	..	.....					90.24	36308	Commerical



2 GEORGE V., A. 1912

## BULLETIN No. 222—CREAM OF TARTAR—

TABLE

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—								
1910.								
Sept. 26	Cream of Tartar.	36309	Jcs. D. Marrier, 136 Rue D'Orchester, Quebec.	$\frac{1}{2}$ lb.	20	Unknown	Turcot & Frère, Quebec.	
" 27	"	36310	Elzéar Gagnon, 138 Rue D'Orchester, Quebec.	$\frac{1}{3}$ "	20	"		
" 27	"	36311	Philippe Clévet, 156 Rue D'Orchester, Quebec.	$\frac{1}{2}$ "	20	"		
" 23	"	36312	Elzéar P. Couture, 124 Rue Caron, Quebec.	3 pkts	30	E. W. Gillett Co., Ltd., Toronto.	N. Rioux & Cie, Quebec.	
" 28	"	36313	Jas. A. Talbot, 410 Rue de la Reine, Quebec.	3 "	30	E. W. Gillett Co., Ltd., Toronto.	N. Turcot & Cie, Quebec.	
" 29	"	36114	Jos. E. Morand, 406 Rue St Valier, Quebec.	$\frac{1}{2}$ lb.	20	Unknown	Drouin & Frère, Quebec.	
" 29	"	36315	Jos. Boutin, 40 Rue de La'Eglise, Quebec.	$\frac{1}{2}$ "	20	"	Bedard & Frère, Quebec.	
DISTRICT OF ST. HYACINTHE—								
Sept. 17	Cream of Tartar.	41010	R. O. Brodeur, St. Hyacinthe.	$\frac{1}{2}$ lb.	20	Lister Co., Toronto.		
" 19	"	41014	May & Houlihan, 3 pkts. Sherbrooke.	3 pkts.	30			
" 19	"	41015	Alfred Lanoctot, 3 pkts. Sherbrooke.	$\frac{1}{2}$ lb.	20		L. Chaput, fils & Co.	
" 19	"	41016	Bernard & Co., 3 pkts. Sherbrooke.	3 pkts.	30	F. F. Dalley Co.		
" 19	"	41017	Therault & Leclerc, Sherbrooke.	$\frac{1}{2}$ lb.	20			
" 19	"	41018	N. Lacroix, Sherbrooke.	$\frac{1}{2}$ "	20			
" 20	"	41020	Biron & Blouin, Sherbrooke.	$\frac{1}{2}$ "	20		C. O. Genest, Sherbrooke.	
" 20	"	41021	W. B. Murray, Sherbrooke.	$\frac{1}{2}$ "	20	Todhunter-Mitchell Co.		
" 20	"	41022	V. Archambault, Sherbrooke.	$\frac{1}{2}$ "	20	Pure Gold Co.		
" 20	"	41023	Hebert & Fortier, Sherbrooke.	$\frac{1}{2}$ "	15		Hudon, Hebert & Co., Ltd.	
" 20	"	41024	Couture & Moore, Sherbrooke.	$\frac{1}{2}$ "	20	F. F. Dalley Co.		
" 20	"	41025	Royer & Fissette, 1 tin. Sherbrooke.	1 tin.	20			Labelled Pure French Cream of Tartar.
Oct. 4	"	41030	Chas. Vincent, 3 tins. Granby, P.Q.	3 tins.	30			Otter brand.
" 4	"	41031	" " " 1 tin.	1 tin.	20	E. W. Gillett Co., Ltd.		
" 5	"	41032	F. W. Jones, Waterloo, P.Q.	$\frac{1}{2}$ lb.	20			

## SESSIONAL PAPER No. 14

## AS PURCHASED IN GROCERY SHOPS.

## II.

## RESULTS OF ANALYSIS.

Preliminary Examination.					Determinations.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Albumin.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		
p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
Pre-sent.	Pre-sent.	Pre-sent.	310	35.82	Maize	1.80	13.18	6.10	18.00		36309	Adulterated
None.	Pre-sent.	Pre-sent.	475	6.36	"	0.75	9.00	4.99	8.80		36310	"
Pre-sent.	Pre-sent.	Trace.	470	9.06	"	5.89	0.68	17.20	9.80		36311	"
None.	None.	None.	530							99.64	36312	Up to B. P. standard
"	"	"	520							97.76	36313	"
"	"	"	470							88.36	36314	Low grade
"	"	"	465							87.40	36315	"
J. J. COSTIGAN, ACTING INSPECTOR.												
None.	None.	None.	480							90.24	41010	Commercial.
"	"	"	480							90.24	41014	"
"	"	"	475							89.30	41015	"
"	"	"	480							90.24	41016	"
Pre-sent.	Pre-sent.	Pre-sent.	440	7.86	Maize	0.37	1.45	0.61	4.80		41017	Adulterated.
None.	None.	None.	485							91.18	41018	Commercial.
Pre-sent.	Pre-sent.	Pre-sent.	480	2.24	Maize	0.37	2.55	1.99	4.90		41020	Adulterated.
None.	None.	None.	500							94.00	41021	Commercial.
"	"	"	505							94.94	41022	"
"	"	"	475							89.30	41023	"
"	"	"	485							91.18	41024	
"	"	"	475							89.30	41025	"
"	"	"	520							97.76	41030	Up to B. P. standard.
"	"	"	520							97.76	41031	"
"	"	"	485							91.18	41032	Commercial.

2 GEORGE V., A. 1912

## BULLETIN No. 222—CREAM OF TARTAR—

TABLE

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—								
1910								
Sept. 13	Cream of Tartar.	40714	S. H. Ewing & Sons, 98 King st., Montreal.	$\frac{1}{2}$ lb.	15	Vendors.....		
" 13	"	40715	Heron - Leblanc, Ltd., St. Paul st., Montreal.	$\frac{1}{2}$ "	15	"		
" 13	"	40716	J. V. Boudrias, 223 Notre Dame E., Montreal.	$\frac{1}{2}$ "	15			Sold as pure...
" 13	"	40717	Nat. Coffee & Spice Co., St. Paul st., Montreal.	$\frac{1}{2}$ "	13			"
" 13	"	40718	Brault, Labelle & Desjardins, 135 St. Paul st., Montreal.	$\frac{1}{2}$ "	15		Chaput Fils, Montreal.	
" 15	"	40719	Swift's Provision Stores, 2000 Waterly st., Montreal	$\frac{1}{2}$ "	20			
" 15	"	40720	E. Martin, 203 Laurier W., Montreal.	3 pks.	30	The Lister Pure Food Co., Ltd., Toronto.		
" 15	"	40721	J. J. Duffy & Co., St. Paul st., Montreal.	$\frac{1}{2}$ lb.	13			
" 16	"	40722	Willison Bros., 20 Prince Arthur Co., Montreal.	$\frac{1}{2}$ lb.	20			
" 16	"	40723	P. Daoust, 276 Sherbrooke W., Montreal.	3 tins	30			Prince of Wales Brand.
" 16	"	40724	J. A. Simard & Cie, 305 St. Paul St., Montreal.	b.	10	Vendors.....		
" 20	"	40725	Strong & Strong, 480 Lagauchetiere St., Montreal.	3 tins	30	McLarens Ltd. Hamilton.		
" 28	"	40726	F. Brais, 709 St. Lawrence B., Montreal.	3 pots	30	The Lister Pure Food Co. Ltd., Toronto.		
" 29	"	40727	N. Lionnais, 158 Dorchester St. S., Montreal.	$\frac{1}{2}$ lb.	20			
" 29	"	40728	E. Lanoue, 197 Vitre St.	$\frac{1}{2}$ lb.	20			Imperial Brand.

## SESSIONAL PAPER No. 14

## ASPURCHASED IN GROCERY SHOPS.

## II.

RESULTS OF ANALYSIS.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Preliminary Examination.				Determinations.								
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		
p.c.	p.c.	p.c.	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.	p.c.		
None.	None.	None.	470	.....						88.36	40714	Low grade.
"	"	"	500	.....						94.60	40715	Commercial.
Pre-sent.	"	"	375	20.12	Maize	None.	None.	None.	4.30	70.50	40716	Adulterated.
None.	"	"	495	.....						93.06	40717	Commercial.
Pre-sent.	Pre-sent.	Pre-sent.	480	0.08	Maize	0.37	1.55	0.61	5.60	.....	40718	Adulterated.
None.	None.	None.	480	.....						90.24	40719	Commercial.
"	"	"	485	.....						91.18	40720	"
"	"	"	480	.....						90.24	40721	"
None.	None.	None.	480	.....						90.24	40722	"
"	"	"	480	.....						90.24	40723	"
"	"	"	470	.....						88.36	40724	Low grade.
"	"	"	465	.....						87.42	40725	"
"	"	"	485	.....						91.18	40726	Commercial.
Pre-sent	Pre-sent	Pre-sent	475	17.56	Maize	4.20	1.25	10.16	3.40	.....	40727	Adulterated.
None.	None.	None.	520	.....						97.76	40728	Up to B.P. standard.

2 GEORGE V., A. 1912

## BULLETIN No. 222—CREAM OF TARTAR—

TABLE

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--								
1910								
Sept. 7	Cream of Tartar..	43070	Goodall Bros., Ottawa.	$\frac{1}{2}$ lb.	20	E. W. Gillett Co., Ltd., Toronto.	Manufacturers	
" 8	" ..	43071	J. F. McEwen, Bank St., Ottawa.	$\frac{1}{2}$ "	20	The J. M. Lowes, Ltd., Toronto.	"	
" 8	" ..	43072	H. N. Anstiss, Bank St., Ottawa.	$\frac{1}{2}$ "	20	Unknown ....	Provost & Allard, Ottawa.	
" 9	" ..	43074	J. K. Whitlaw, Arnprior.	$\frac{1}{2}$ "	20	PureGoldMfg. Co., Toronto.	Manufacturers	
" 9	" ..	43075	W. E. Parsons, Arnprior.	$\frac{1}{2}$ "	20	Unknown ....	Forbes Bros., Montreal.	
" 13	" ..	43078	J. C. Brown & Co., Vankleek Hill.	$\frac{1}{2}$ "	18	White Swan Spices and Cereals Ltd., Toronto.	Manufacturers	
" 14	" ..	43080	J. H. Mendels, Perth. Ont.	$\frac{1}{2}$ "	20	Unknown ....	Robertson, Nicolle & Co. Smith Falls.	
" 14	" ..	43081	A. Meighan & Bro., Perth, Ont.	$\frac{1}{2}$ "	20	" .....	C. H. Cochrane & Co., Ottawa.	
" 20	" ..	43082	P. C. Leslie & Co., Prescott.	$\frac{1}{2}$ "	20	" ..	T. W. Chamberlain & Co. Prescott.	
" 20	" ..	43083	R. A. Scott, Pres- cott.	$\frac{1}{2}$ "	20	" ..	Birks Corner & Co., Mon- treal.	
" 21	" ..	43085	J. A. Stubinsky, Renfrew.	$\frac{1}{2}$ "	20	" .....	Robertson, Nicolle & Co. Smith Falls.	
" 26	" ..	43086	A. P. Johnson, Brons. Ave., Ottawa.	$\frac{1}{2}$ "	20	" .....	C. H. Cochrane & Co., Ottawa.	
" 26	" ..	43087	T. Bowman, Som. St., Ottawa.	$\frac{1}{2}$ "	20	" .....	" "	
" 26	" ..	43088	N. S. Schwerdfager, Som. St., Ottawa.	1 tin	20	Lister Pure Food Co. Ltd. Toronto.	Manufacturers	Labelled Pure French Cream of Tartar. Guaranteed.
" 27	" ..	43089	Lapensee & Lafleur, Hill St., Ottawa.	$\frac{1}{2}$ lb.	20	Unknown.....	Provost & Allard.	
DISTRICT OF KINGSTON--								
Oct. 7	Cream of Tartar.	46504	W. E. Hopkinson, Kingston.	$\frac{1}{2}$ lb..	20	.....	Robertson, Nicolle & Co.,	
" 7	" ..	46505	Geo. Gibson, Kingston.	$\frac{1}{2}$ "	20	.....	J. M. Lowes, Toronto.	
" 7	" ..	46506	H. M. Stover, Kingston.	$\frac{1}{2}$ "	20	.....	A. MacLean, Kingston.	



## SESSIONAL PAPER No. 14

## AS PURCHASED IN GROCERY SHOPS.

II.

RESULTS OF ANALYSIS.												No. of Sample.	Remarks and Opinion of the Chief Analyst.
Preliminary Examination.				Determinations.									
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.			
J. A. RICKEY, INSPECTOR.													
p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.			
None.	None.	None.	525	...						98.70	43070	Up to B.P. standard	
"	"	"	485	...						91.18	43071	Commercial.	
"	"	"	485	...						91.18	43072	"	
"	"	"	485	...						91.18	43074	"	
Pre- sent	Pre- sent	Pre- sent	550	1.48	Maize	0.50	14.80	10.71	22.20	.....	43075	Adulterated.	
None.	None.	None.	480	.....						90.24	43078	Commercial.	
Pre- sent	Pre- sent	Trace.	500	10.24	Maize	3.82	1.35	7.38	3.90	.....	43080	Adulterated.	
None.	None.	None.	480	.....						90.24	43081	Commercial.	
"	"	"	480	.....						90.24	43082	"	
"	"	"	480	.....						90.24	43083	"	
Pre- sent	Pre- sent	"	515	9.36	Maize	1.40	None.	6.40	3.80	.....	43085	Adulterated.	
None.	None.	"	520	.....						97.76	43086	Up to B.P. standard.	
"	"	"	500	.....						94.00	43087	Commercial.	
"	"	"	480	.....						90.24	43088	"	
"	"	"	485	.....						91.18	43089	"	

JAS. HOGAN, INSPECTOR.

Pre- sent.	Pre- sent.	Pre- sent.	480	12.76	Maize	2.94	1.35	10.47	6.00	...	46504	Adulterated.
None.	None.	None.	470	...	...	...	...	...	...	88.36	46505	Low grade.
"	"	"	530	...	...	...	...	...	...	99.64	46506	Up to B. P. standard.

2 GEORGE V., A. 1912

## BULLETIN No. 222—CREAM OF TARTAR—

TABLE—

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—								
1910.								
Oct. 7	Cream of Tartar.	46507	N. J. Arniel, Alford St., Kingston.	$\frac{1}{2}$ lb..	20	.....	N. C. Polson, Kingston.	.....
" 7	" ..	46508	W. H. Medley, Kingston.	$\frac{1}{2}$ " ..	20	Unknown ..	.....	.....
" 7	" ..	46509	N. J. Nesbitt, Kingston.	$\frac{1}{2}$ " ..	20	.....	McLarens, Hamilton.	.....
" 7	" ..	46510	C. H. Pickering, Kingston.	$\frac{1}{2}$ " ..	20	.....	J. M. Lowes, Toronto.	.....
" 10	" ..	46511	A. H. Reinecke, Belleville.	$\frac{1}{2}$ " ..	20	.....	J. Sloan, Belleville.	.....
" 10	" ..	46512	R. Fenn & Son, Belleville.	$\frac{1}{2}$ " ..	20	Unknown ..	.....	.....
" 10	" ..	46513	Geo. Pearson, Belleville.	$\frac{1}{2}$ " ..	20	" ..	.....	.....
" 10	" ..	46514	J. Panter & Son, Belleville.	3 p'gs.	15	.....	White Swan spices and cereals, Toronto.	.....
" 10	" ..	46515	J. H. P. Young, Belleville.	$\frac{1}{2}$ lb..	20	.....	Pure Gold Co., Toronto.	.....
" 11	" ..	46516	W. J. Roulty, Peterboro.	$\frac{1}{2}$ " ..	20	.....	White Swan spices and cereals, Toronto.	.....
" 11	" ..	46517	G. O. Brine, Peterboro.	3 tins.	60	.....	Gorman & Eckert, London, Ont.	.....
" 11	" ..	46518	J. Hill, Peterboro.	3 " ..	60	.....	Todhunter & Mitchell, Toronto.	.....

## DISTRICT OF TORONTO—

Sept. 13	Cream of Tartar.	45124	Fred White, 123 McCaul St., Toronto.	$\frac{1}{2}$ lb.	20	Todhunter, Mitchell & Co., Toronto	.....	Labelled pure Cream of Tartar.
" 13	" ..	45125	A. B. Coe, 126 Spadina Ave., Toronto.	$\frac{1}{2}$ " ..	18	" ..	.....	" ..
" 14	" ..	45126	Wm. Andrew, 2 Sydenham St., Toronto.	$2\frac{1}{2}$ " ..	18	.....	F. W. Humphrey, Toronto.	.....
" 16	" ..	45127	W. J. Nichol, 52 Queen St. E., Toronto.	$\frac{1}{2}$ " ..	18	.....	Pure Gold Mfg. Co., Toronto.	.....
" 16	" ..	45128	Mrs. M. Mickus, 44 St. Clomens Ave., Toronto.	$\frac{1}{2}$ " ..	20	.....	R. B. Hayhoe & Co., Toronto.	.....
" 20	" ..	45129	A. R. MacLachlin, King St., Hamilton.	$\frac{1}{2}$ " ..	20	Young Winfield, Ltd., Hamilton.	.....	.....

SESSIONAL PAPER No. 14

AS PURCHASED IN GROCERY SHOPS.

II.

RESULTS OF ANALYSIS.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Preliminary Examination.				Determinations.								
Starch.	Sulphates.	Phosphate.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		

JAMES HOGAN, INSPECTOR—*Concluded.*

p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
None.	None.	None.	485	.....	...	.....	.....	.....	.....	91·18	46507	Commercial.
"	"	"	465	.....	.....	.....	.....	.....	.....	87·42	46508	Low grade.
"	"	"	470	.....	.....	.....	.....	.....	.....	88·36	46509	" "
"	"	"	490	.....	.....	.....	.....	.....	.....	92·12	46510	Commercial.
"	"	"	485	.....	.....	.....	.....	.....	.....	91·18	46511	"
"	"	"	475	.....	.....	.....	.....	.....	.....	89·30	46512	"
"	"	"	490	.....	.....	.....	.....	.....	.....	92·12	46513	"
"	"	"	490	.....	.....	.....	.....	.....	.....	92·12	46514	"
"	"	"	485	.....	.....	.....	.....	.....	.....	91·18	46515	"
"	"	"	475	.....	.....	.....	.....	.....	.....	89·30	46516	"
"	"	"	490	.....	.....	.....	.....	.....	.....	92·12	46517	"
"	"	"	525	.....	.....	.....	.....	.....	.....	98·70	46518	Up to B. P. standard.

H. J. DAGER, INSPECTOR.

None.	None.	None.	485	.....	.....	.....	.....	.....	.....	91·18	45124	Commercial.
"	"	"	485	.....	.....	.....	.....	.....	.....	91·18	45125	"
"	"	"	485	.....	.....	.....	.....	.....	.....	91·18	45126	"
"	"	"	465	.....	.....	.....	.....	.....	.....	87·42	45127	Low grade.
"	"	"	490	.....	.....	.....	.....	.....	.....	92·12	45128	Commercial.
"	"	"	480	.....	.....	.....	.....	.....	.....	90·24	45129	"

2 GEORGE V., A. 1912

BULLETIN No. 222—CREAM OF TARTAR—

TABLE

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—								
1910.								
Sept. 20	Cream of Tartar.	45130	Jas. Mitchell, 97 York St., Hamilton.	$\frac{1}{2}$ lb.	15	Young Winfield, Ltd., Hamilton.		
" 20	" ..	45131	Jas. Munro, 433 Jas. St. North, Hamilton.	$\frac{1}{2}$ " ..	15	" "		L a b e l l e d Youngs' improved Cream of Tartar. Ground pure from selected crystals.
" 20	" ..	45132	C. I. Sanderson, 603 Barton St., Hamilton.	$\frac{1}{2}$ lb.	20	Jas. Turner Co Ltd., Hamilton.		L a b e l l e d Pure Cream of Tartar.
" 22	" ..	45133	R. G. Harshaw, Orangeville.	$\frac{1}{2}$ " ..	20		Eby Blain Ltd Toronto.	Sold as Cream of Tartar.
" 22	" ..	45134	F. H. Arkell, Orangeville.	$\frac{1}{2}$ " ..	20		H. P. Eckardt Toronto.	
" 23	" ..	45135	John McQuaker, Owen Sound.	$\frac{1}{2}$ " ..	20		Unknown ..	L a b e l l e d Pure Cream of Tartar.
" 23	" ..	45136	S. Bronscombe, Owen Sound.	$\frac{1}{2}$ " ..	20		"	
" 23	" ..	45137	Dealy & White, Owen Sound.	$\frac{1}{2}$ " ..	20		McLaughlin & Sons Co., Owen Sound.	Gilletts Cream of Tartar.
" 26	" ..	45138	W. F. Cousins, 509 Easton Ave., Toronto.	$\frac{1}{2}$ " ..	20		F. W. Humphrey, Toronto.	L a b e l l e d Pure Cream of Tartar.
DISTRICT OF LONDON—								
Sept. 20	Cream of Tartar.	44616	Geo. E. Reynolds, Berton.	$\frac{3}{4}$ lb.	30	PureGoldMfg. Co., Toronto.		
" 21	" ..	44620	Jas. Campbell, Tottenham.	$\frac{1}{2}$ " ..	20	Lyman Bros. & Co., Toronto.	Manufacturers	
" 26	" ..	44629	A. Beattie & Co., Stratford.	$\frac{3}{4}$ " ..	30		E. W. Gillett & Co., Toronto.	
" 26	" ..	44631	J. A. Monteath, Stratford.	$\frac{3}{4}$ " ..	30		F. F. Dalley Co., Hamilton	
" 28	" ..	44632	Chas. Andrews, Seaforth.	$\frac{1}{2}$ " ..	20	Canada Spice Co., London.		
" 28	" ..	44634	Richard Smith, Seaforth.	$\frac{3}{4}$ " ..	30	E. W. Gillett Co., Ltd., Toronto.	Stratford WholesaleGrocery, Stratford.	
" 29	" ..	44642	Sturday & Co., Goderich.	$\frac{1}{2}$ " ..	20	White Swan Spice Co., Toronto.		
" 29	" ..	44646	Gillette Chem. Works, Toronto.	$\frac{3}{4}$ " ..	30	Vendors.....		

SESSIONAL PAPER No. 14

AS PURCHASED IN GROCERY SHOPS.

II.

## RESULTS OF ANALYSIS.

Preliminary Examination.				Determinations.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		
H. J. DAGER, INSPECTOR— <i>Concluded.</i>												
p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
None.	None.	None.	495	...						93.06	45130	Commercial.
"	"	"	475	.....						89.30	45131	"
"	"	"	480	.....						90.24	45132	"
"	Pre-sent.	Pre-sent.	450	12 18	Maize	2.40	3.64	6.90	5.80	.....	45133	Adulterated.
Pre-sent.	"	Trace.	510	9.58	"	2.73	0.62	7.28	2.80	...	45134	"
None.	None.	"	475	.....						89.30	45135	Commercial.
"	"	"	480	.....						90.24	45136	"
"	"	"	532	.....						100.00	45137	Up to B.P. standard.
"	"	"	500	.....						94.00	45138	Commercial.

T. KIDD, INSPECTOR.

None.	None.	None.	490	...						92.12	44616	Commercial.
"	"	"	495	...						93.06	44620	"
"	"	"	525	...						98.70	44629	Up to B.P. standard.
"	"	"	495	...						93.06	44631	Commercial.
"	"	"	475	...						89.30	44632	"
"	"	"	525	...						98.70	44634	Up to B.P. standard
"	"	"	490	...						92.12	44642	Commercial.
"	"	"	525	...						98.70	44646	Up to B.P. standard.



2 GEORGE V., A. 1912

## BULLETIN No. 222--CREAM OF TARTAR

TABLE

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 LONDON—								
1910.								
Sept. 29	Cream of Tartar.	44647	H. R. Long, Goderich.	3 pkts.	30	.....	Gorman Eckert London.	.....
" 30	" ..	44648	E. Bender, Blythe.	$\frac{1}{2}$ lb ..	20	.....	E. Adams & Co. London.	.....
" 30	" ..	44651	Mrs. Grisdale, Wingham.	$\frac{1}{2}$ " ..	20	.....	Gillett Co., Toronto.	.....
" 30	" ..	44653	Ker & Boyd, Wingham.	3 pkts.	30	.....	Gorman Eckert London.	.....
Oct. 7	" ..	44657	G. H. Wairns, Windsor.	3 " ..	30	E. W. Gillett Co., Ltd., Toronto.	.....	.....
" 12	" ..	44659	A. McCormick, London.	$\frac{1}{2}$ lb ..	20	Grocery & Spice Co., London.	.....	.....
" 12	" ..	44662	W. R. Butcher, St. Marys.	$\frac{1}{2}$ " ..	20	.....	Todhunter & Mitchell, Toronto.	.....
DISTRICT OF WINDSOR—								
Oct. 3	Cream of Tartar.	42446	Chute & Smith, St. Thomas.	$\frac{1}{2}$ lb ..	20	.....	Canada Spice and Grocery Co., London	Labelled Crest Brand absolutely pure Cream of Tartar.
" 3	" ..	42449	Moylan & Moylan, St. Thomas.	3 pkgs	30	E. W. Gillett Co. Ltd., Toronto.	.....	Labelled Gilletts ground Cream of Tartar guaranteed chemically pure.
" 3	" ..	42450	E. J. Duncan, St. Thomas.	$\frac{1}{2}$ lb ..	20	.....	A. M. Smith & Co. London	.....
" 3	" ..	42456	C. A. Filby, Aylmer.	$\frac{1}{2}$ " ..	20	Unknown....	Unknown....	.....
" 4	" ..	42462	H. B. Hodgkins, Aylmer.	3 pkgs	15	Young Winfield Hamilton.	.....	Labelled Young's improved pure Cream of Tartar.
" 4	" ..	42464	R. G. Moore, Aylmer.	$\frac{1}{2}$ lb ..	20	.....	E. Adams & Co., London	.....
" 4	" ..	42465	Young & Caven, Aylmer.	$\frac{1}{2}$ " ..	20	Gillett's Toronto.	.....	.....
" 4	" ..	42469	J. G. Huter, Aylmer.	3 pkgs	30	E. W. Gillett Co., Ltd., Toronto.	.....	.....
" 5	" ..	42472	W. T. Gibson, Tillsonburg.	$\frac{1}{2}$ lb ..	20	.....	E. Adams & Co., London	.....
" 5	" ..	42477	J. A. Trestian, Tillsonburg.	$\frac{1}{2}$ " ..	20	Unknown....	.....	.....
" 5	" ..	42481	A. M. Smith & Son, Woodstock.	$\frac{1}{2}$ " ..	25	White Swan Spices & Cereals, Toronto.	.....	.....

SESSIONAL PAPER No. 14

AS PURCHASED IN GROCERY SHOPS.

II,

RESULTS OF ANALYSIS.												No. of Sample.	Remarks and Opinion of the Chief Analyst.
Preliminary Examination.				Determinations.									
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.			

T. KIDD, INSPECTOR—*Concluded.*

p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.			
None.	None.	None.	495	.....	.....	.....	.....	.....	.....	93·06	44647	Commercial.	
"	"	"	490	.....	.....	.....	.....	.....	.....	92·12	44648	"	
"	"	"	530	.....	.....	.....	.....	.....	.....	99·64	44651	Up to B.P. standard.	
"	"	"	485	.....	.....	.....	.....	.....	.....	91·18	44653	Commercial.	
"	"	"	525	.....	.....	.....	.....	.....	.....	98·70	44657	Up to B.P. standard.	
"	"	"	460	.....	.....	.....	.....	.....	.....	86·48	44659	Low grade.	
"	"	"	485	.....	.....	.....	.....	.....	.....	91·18	44662	Commercial.	

JNO. TALBOT, INSPECTOR.

None.	None.	None.	465	.....	.....	.....	.....	.....	.....	87·42	42446	Low grade.	
"	"	"	530	.....	.....	.....	.....	.....	.....	99·64	42449	Up to B. P. standard.	
"	"	"	490	.....	.....	.....	.....	.....	.....	92·12	42450	Commercial.	
"	"	"	490	.....	.....	.....	.....	.....	.....	92·12	42456	"	
"	"	"	485	.....	.....	.....	.....	.....	.....	91·18	42462	"	
"	"	"	490	.....	.....	.....	.....	.....	.....	92·12	42464	"	
"	"	"	525	.....	.....	.....	.....	.....	.....	98·70	42465	Up to B. P. standard.	
"	"	"	525	.....	.....	.....	.....	.....	.....	98·70	42469	"	
"	"	"	505	.....	.....	.....	.....	.....	.....	94·94	42472	Commercial.	
"	"	"	480	.....	.....	.....	.....	.....	.....	90·24	42477	"	
"	"	"	480	.....	.....	.....	.....	.....	.....	90·24	42481	"	

2 GEORGE V., A. 1912

## BULLETIN No. 222—CREAM OF TARTAR—

TABLE

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—								
1910.								
Oct. 6	Cream of Tartar.	42486	Jno. Scott & Co., Woodstock.	$\frac{1}{2}$ lb.	24	E. W. Gillett Co. Ltd., Toronto.		Gillett's Cream of Tartar, absolutely pure.
" 6	" ..	42487	Canada Spice & Grocery Co., London	3 pkgs	20	Vendors .....		
" 6	" ..	42488	Gorman Eckert & Co., London.	3 " "	nil	" .....		
" 6	" ..	42489	I. X. L. Spice & Coffee Co., London	3 " "	18	" .....		

## DISTRICT OF CALGARY—

Sept. 23	Cream of Tartar.	43904	R. V. Shaw & Co., Calgary.	$\frac{1}{2}$ lb.	20	Georgeson & Co., Ltd., Calgary.		
" 23	" ..	43905	Jenkins & Comfoot, Calgary.	$\frac{1}{2}$ " "	20	" .....		
" 23	" ..	43906	R. J. Frizzle, Calgary.	3 pkgs	30	E. W. Gillett Co., Ltd., Toronto.		
" 27	" ..	43907	Georgeson & Co., Ltd., Calgary.	3 " "	30	Vendors .....		
" 27	" ..	43908	L. T. Mewburn & Co., Calgary.	3 " "	30	E. W. Gillett Co., Ltd.		
" 27	" ..	43909	G. F. & J. Galt, Ltd., Calgary.	3 " "	30	Vendors .....		
" 27	" ..	43910	Campbell, Wilson & Horne, Calgary.	3 " "	30	E. W. Gillett Co., Ltd.		
" 29	" ..	43911	O. H. Johnson, Wetaskiwin.	3 " "	30	Georgeson & Co., Ltd.		
" 29	" ..	43912	Fowler & Co., Wetaskiwin.	3 pkgs	45	E. W. Gillett Co., Ltd.		
" 30	" ..	43913	Gilbert Berg, Edmonton.	3 " "	30	" .....		
" 30	" ..	43914	L. Levesque, Edmonton.	$\frac{1}{2}$ lb.	20	" .....		
" 30	" ..	43915	W. Hencher, Edmonton.	$\frac{1}{2}$ " "	25	The White Star Mfg. Co., Winnipeg.		
" 30	" ..	43916	Aitken Bros., Edmonton.	3 pkgs	30	E. W. Gillett Co., Ltd., Toronto.		
" 36	" ..	43917	A. Livingstone, Edmonton.	3 " "	30	" .....		
" 30	" ..	43918	Hallier & Aldridge, Edmonton.	$\frac{1}{2}$ lb.	20	Shirriffs Imperial Ext. Co., London.		

SESSIONAL PAPER No. 14

AS PURCHASED IN GROCERY SHOPS.

II.

RESULTS OF ANALYSIS.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Preliminary Examination.				Determinations.								
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		

JNO. TALBOT, INSPECTOR—*Concluded.*

p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
None.	None.	None.	530	.....	.....	.....	.....	.....	.....	99.64	42486	Up to B. P. standard.
"	"	"	450	.....	.....	.....	.....	.....	5.10	84.60	42487	Low grade.
"	"	"	525	.....	.....	.....	.....	.....	.....	98.70	42488	Up to B. P. standard.
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	42489	Commercial.

R. W. FLETCHER, INSPECTOR.

None.	None.	None.	525	.....	.....	.....	.....	.....	.....	98.70	43904	Up to B. P. standard.
"	"	"	525	.....	.....	.....	.....	.....	.....	98.70	43905	"
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	43906	"
"	"	"	520	.....	.....	.....	.....	.....	.....	97.76	43907	"
"	"	"	525	.....	.....	.....	.....	.....	.....	98.70	43908	"
"	"	"	495	.....	.....	.....	.....	.....	.....	93.06	43909	Commercial.
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	43910	Up to B. P. standard.
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	43911	"
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	43912	"
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	43913	"
"	"	"	520	.....	.....	.....	.....	.....	.....	97.76	43914	"
"	"	"	475	.....	.....	.....	.....	.....	.....	89.30	43915	Commercial.
"	"	"	520	.....	.....	.....	.....	.....	.....	97.76	43916	Up to B. P. standard.
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	43917	"
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	43918	Commercial.

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## BULLETIN No. 222—CREAM OF TARTAR

TABLE

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—

1910.								
Oct.	6	Cream of Tartar.	38019 Geo. Adams, New Westminister.	$\frac{1}{2}$ lb.	25	.....	Kelly Douglas Vancouver.	.....
"	6	"	38020 T. S. Annaudale, N. Westminister.	$\frac{1}{2}$ "	30	E. W. Gillett Co., Ltd.	.....	.....
"	6	"	38021 C. A. Welsh, New Westminister.	$\frac{1}{2}$ "	25	"	.....	.....
"	6	"	38022 Co-operative Association, New Westminister.	$\frac{1}{2}$ "	25	.....	W. Braid & Co	.....
"	10	"	38023 H. A. Edgett & Co., Vancouver.	$\frac{1}{2}$ "	25	E. W. Gillett Co. Ltd.	.....	.....
"	10	"	38024 Dom. Grocery, Vancouver.	$\frac{1}{2}$ "	25	.....	Kelly Douglas	.....
"	10	"	38025 F. Fillion, Vancouver.	$\frac{1}{2}$ "	25	E. W. Gillett Co. Ltd.	.....	.....
"	10	"	38026 McCullough Bros., Vancouver.	$\frac{1}{2}$ "	25	"	.....	.....
"	10	"	38027 S. T. Wallace, Vancouver.	$\frac{1}{2}$ "	25	.....	Wm. Braid & Co.	.....
"	10	"	38028 Ideal Grocery, Vancouver.	$\frac{1}{2}$ "	25	E. W. Gillett Co. Ltd.	.....	.....
"	10	"	38029 A. & C. Grocery, Vancouver.	$\frac{1}{2}$ "	25	.....	.....	.....
"	10	"	38030 London Grocery, Vancouver.	$\frac{1}{2}$ "	20	Unknown	.....	.....
"	10	"	38031 Walford & Roney, Vancouver.	$\frac{1}{2}$ "	25	E. W. Gillett Co. Ltd.	.....	.....
"	10	"	38032 S. F. McCready, Vancouver.	$\frac{1}{2}$ "	25	.....	Wm. Braid & Co.	.....
"	10	"	38033 S. Bell, Fairview, Vancouver.	$\frac{1}{2}$ "	25	E. W. Gillett Co. Ltd.	.....	.....

## DISTRICT OF VICTORIA—

Oct.	12	Cream of Tartar.	44940 Windsor Grocery Co., Victoria, B.C.	$\frac{1}{2}$ lb.	25	.....	Pioneer Coffee & Spice Mills, Victoria, B.C.	.....
"	12	"	44941 West End Grocery Co., Ltd., Victoria, B.C.	$\frac{1}{2}$ "	25	E. W. Gillett Co., Ltd., Toronto.	.....	.....
"	12	"	44942 Saunders Grocery Co., Ltd., Victoria, B.C.	$\frac{1}{2}$ "	20	Unknown	Unknown	.....
"	12	"	44943 Copas & Young, Victoria, B.C.	$\frac{1}{2}$ "	20	Pure Gold Mfg. Co., Ltd., Toronto.	.....	Pure Gold Cream of Tartar
"	13	"	44944 H. O. Kirkham, Victoria, B.C.	$\frac{1}{2}$ "	20	Braid & Co., Vancouver.	.....	.....



SESSIONAL PAPER No. 14

AS PURCHASED IN GROCERY SHOPS.

II.

RESULTS OF ANALYSIS.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Preliminary Examination.				Determinations.								
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		

J. F. POWER, INSPECTOR.

p. c.	p. c.	p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.		
None.	None.	None.	525	.....	.....	.....	.....	.....	.....	98.70	38019	Up to B. P. standard.
"	"	"	532	.....	.....	.....	.....	.....	.....	100.00	38020	"
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	38021	"
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	38022	Commercial.
"	"	"	525	.....	.....	.....	.....	.....	.....	98.70	38023	Up to B. P. standard.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	38024	Commercial.
"	"	"	525	.....	.....	.....	.....	.....	.....	98.70	38025	Up to B. P. standard.
"	"	"	525	.....	.....	.....	.....	.....	.....	98.70	38026	"
"	"	"	480	.....	.....	.....	.....	.....	.....	90.24	38027	Commercial.
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	38028	Up to B. P. standard.
"	"	"	520	.....	.....	.....	.....	.....	.....	97.76	38029	"
"	"	"	500	.....	.....	.....	.....	.....	.....	94.00	38030	Commercial.
"	"	"	490	.....	.....	.....	.....	.....	.....	92.12	38031	"
"	"	"	505	.....	.....	.....	.....	.....	.....	94.94	38032	"
"	"	"	510	.....	.....	.....	.....	.....	.....	95.88	38033	"

D. O'SULLIVAN, INSPECTOR.

None.	None.	None.	475	.....	.....	.....	.....	.....	.....	89.30	44940	Commercial.
"	"	"	530	.....	.....	.....	.....	.....	.....	99.64	44941	Up to B. P. standard.
"	"	"	475	.....	.....	.....	.....	.....	.....	89.30	44942	Commercial.
"	"	"	525	.....	.....	.....	.....	.....	.....	98.70	44943	Up to B. P. standard.
"	"	"	485	.....	.....	.....	.....	.....	.....	91.18	44944	Commercial.

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## BULLETIN No. 222—CREAM OF TARTAR

TABLE

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—								
1910.								
Oct. 17	Cream of Tartar.	44945	J. Bailey, Victoria, B.C.	$\frac{1}{2}$ lb ..	25	Empress Mfg. Co., Vancouver.		
" 17	" ..	44946	F. E. Plummer, Victoria, B.C.	$\frac{1}{2}$ " ..	20		Simon Leiser & Co., Victoria, B.C.	
" 17	" ..	44947	Erskine & Lee, Victoria, B.C.	$\frac{1}{2}$ " ..	20		R. P. Rithet & Co. Victoria, B.C.	
" 17	" ..	44948	D. H. Ross & Co., Victoria, B.C.	$\frac{1}{2}$ " ..	20		Wilson Bros., Victoria, B.C.	
" 18	" ..	44949	Harrison & McDonald, Victoria, B.C.	3 pkgs	30	E. W. Gillett Co., Ltd., Toronto.		
" 18	" ..	44950	Acton Bros., Victoria, B.C.	$\frac{1}{2}$ lb..	20	" ..		
" 18	" ..	44951	W. B. Hall, Victoria, B.C.	$\frac{1}{2}$ " ..	20		Pioneer Coffee & Spice Mills, Victoria, B.C.	
" 18	" ..	44952	L. Dickinson, Victoria, B.C.	$\frac{1}{2}$ " ..	20	Pure Gold Mfg. Co., Ltd., Vancouver.		
" 18	" ..	44953	J. Renouf, Victoria, B.C.	$\frac{1}{2}$ " ..	20	E. W. Gillett Co., Ltd., Toronto.		
" 19	" ..	44954	Woods & White, Victoria, B.C.	$\frac{1}{2}$ " ..	20		Wilson Bros., Victoria, B.C.	

SESSIONAL PAPER No. 14

AS PURCHASED IN GROCERY SHOPS.

II.

RESULTS OF ANALYSIS.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Preliminary Examination.				Determinations.								
Starch.	Sulphates.	Phosphates.	Acidity.	Starch.	Kind.	Alumina.	Phosphoric Acid.	Sulphuric Acid.	Calcium Oxide.	Percentage of Purity.		

D. O'SULLIVAN, INSPECTOR.—*Concluded.*

p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
None.	None.	None.	490	.....	.....	.....	.....	.....	92.12	44945	Commercial.
"	"	"	532	.....	.....	.....	.....	.....	100.00	44946	Up to B. P. standard.
"	"	"	520	.....	.....	.....	.....	.....	97.76	44947	" "
"	"	"	520	.....	.....	.....	.....	.....	97.76	44948	" "
"	"	"	530	.....	.....	.....	.....	.....	99.64	44949	" "
"	"	"	532	.....	.....	.....	.....	.....	100.00	44950	" "
"	"	"	475	.....	.....	.....	.....	.....	89.30	44951	Commercial.
"	"	"	510	.....	.....	.....	.....	.....	95.88	44952	"
"	"	"	525	.....	.....	.....	.....	.....	98.70	44953	Up to B. P. standard.
"	"	"	530	.....	.....	.....	.....	.....	99.64	44954	" "

## APPENDIX R.

## BULLETIN No. 223—VINEGAR.

OTTAWA, April 4, 1911.

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

SIR,—I beg to hand you a report upon one hundred and forty three (143) samples of Vinegar, purchased by our inspectors throughout Canada in October of last year.

Analytical results appear in the case of only 84 of these samples. The remaining 59 samples were lost in the fire which destroyed our laboratories on the 4th of January. Some work had been done upon most of these samples, but the records are not available, having perished in the fire.

It was intended that the work upon this collection, together with that published in Bulletins 35 and 108 should form a basis for the classification of Vinegar as found in Canada. The meagre results attained, make it impossible to attempt the carrying out of the original plan; and it will be necessary to wait until we can make another systematic inspection of vinegar.

Vinegar appears to be marketed in Canada as Malt Vinegar, White Wine Vinegar and Cider Vinegar, or simply as Vinegar, without any distinctive name. It is probable that much of the vinegar offered is fundamentally a spirit vinegar, with additions of flavouring and colouring matter which imitate malt, cider and wine vinegars. There is the further suspicion that considerable amounts of acetic acid, made by the destructive distillation of wood, as a bye-product in the wood spirit industry, are employed in vinegar making, and, of course, without acknowledgment of the fact.

Provided that the acid so used is properly refined, it is identical with refined acetic acid from any other source, and is unobjectionable from the point of view of healthfulness. But, being entirely flavourless, it is not a vinegar, and cannot be sold as such unless artificially flavoured; when, if sold at all, it should be honestly labelled as artificial or imitation vinegar. There can be no doubt that the genuine vinegar industry suffers a serious handicap through the unfair competition of factitious substitutes for vinegar; or that the buyer who desires a genuine vinegar is frequently deceived by the substitution of a spurious article, whether with or without knowledge of that fact by the retailer. Nor can this undesirable condition of things be successfully met until a workable definition of vinegar, in the generic sense, is made legal; and until the various kinds of vinegar which are found in commerce, are recognized and defined by law.

## SESSIONAL PAPER No. 14

The following scheme of classification and definition is to be regarded as a first attempt to bring the matter into a shape in which we can deal with it. The definitions are very incomplete, and require to have written into them numerical constants which have not yet been determined, and for the fixing of which I had hoped that the collection of vinegars now reported would have formed helpful material.

## PROPOSED VINEGAR STANDARDS.

1. Vinegar is a liquid containing not less than 4 grams of acetic acid, nor more than 8 grams of acetic acid per 100 cubic centimeters; and when sold or offered for sale under a name which indicates a particular source, as Cider Vinegar, Malt Vinegar, Wine Vinegar, &c., it must be actually derived from such source.

2. Concentrated Vinegar, Vinegar Essence, &c., is a liquid containing more than 8 per cent of acetic acid, and must contain nothing which, when it is diluted to the strength of vinegar, and used as such, is harmful to health.

(Consider a limit to reducing impurities, &c.)

3. Spirit Vinegar, Alcohol Vinegar, &c., is vinegar made by the acetous fermentation of diluted distilled alcohol.

4. Wine Vinegar, is vinegar made by the alcoholic and subsequent acetous fermentation of the juice of sound, ripe grapes.

5. Malt Vinegar, is vinegar made by the alcoholic and subsequent acetous fermentation, without distillation, of an infusion of malt with or without the addition of other starchy or saccharine materials.

6. Cider Vinegar, Apple Vinegar, is vinegar made by the alcoholic and subsequent acetous fermentation of the juice of sound, ripe apples.

7. Sugar Vinegar, is vinegar made by the alcoholic and subsequent acetous fermentation of a solution of sugar.

8. Glucose Vinegar, is vinegar made by the alcoholic and subsequent acetous fermentation of a solution of glucose or glucose syrup.

9. Acetic Acid Vinegar, is vinegar made by the proper dilution of pure acetic acid with water.

10. Blended Vinegar, is vinegar made by a mixture of two or more of the above species of vinegar.

NOTE.—Imitation Vinegar, is vinegar made from dilute pure acetic acid, flavoured to imitate any of the above kinds of vinegar; and may have the name of the kind of vinegar imitated, added to the words 'Imitation vinegar.' Thus, Imitation Malt Vinegar: Imitation Wine Vinegar, &c.

## NOTE.

1. When vinegar is asked for, it is held legally proper to supply any one of the above named species. When a specific vinegar is asked for, it is unlawful to substitute another kind, without declaration of the fact.

2. Numerical values will be fixed for the different species of vinegar, as soon as this department is in possession of trustworthy data sufficient to justify such action.

3. Acetic acid means the hydrated acid,  $C_4H_6O_3 + H_2O = 2C_2H_4O_2$ . Molecular weight = 60.

One cubic centimetre of a normal solution contains 60 milligrammes of acetic acid.

Of the samples which I am now able to report upon, 18 are sold as Cider Vinegars; 17 as White Wine Vinegars and 8 as Malt Vinegars. If the composition of these various species of vinegar, as herein recorded, be tabulated under the above headings; it will be evident that, either there is great indefiniteness in the composition of a vinegar species, or most of the samples are not true to name.



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## CIDER VINEGARS.

	Acetic Acid.	Solids p. c.	Ash p. c.
42150 .....	2·69	1·302	0·202
42153 .....	3·98	0·722	0·078
42154 .....	4·68	2·118	0·300
42155 .....	4·36	2·206	0·368
42159 .....	4·68	2·768	0·374
45921 .....	4·51	0·168	0·026
45929 .....	2·95	1·828	0·364
45349 .....	4·63	2·370	0·384
45350 .....	4·63	1·114	0·132
45353 .....	3·86	1·728	0·256
45355 .....	3·93	2·348	0·344
45356 .....	3·93	2·152	0·328
45357 .....	2·52	1·766	0·416
41041 .....	4·13	0·996	0·094
40740 .....	4·80	2·654	0·280
45156 .....	5·37	2·088	0·254
45158 .....	4·77	2·042	0·316
42433 .....	4·17	2·190	0·216

The requirements of the United States Standards for Cider Vinegar are, 4 per cent acetic acid, 1·6 per cent solids and 0·25 ash, as minima.

## WHITE WINE VINEGARS.

	Acetic acid.	Solids p. c.	Ash p. c.
42151 .....	3·55	0·082	0·017
42152 .....	4·94	0·612	0·060
42158 .....	4·51	0·044	0·018
45922 .....	5·88	0·504	0·044
45925 .....	3·48	0·144	0·029
45927 .....	3·07	0·076	0·012
45930 .....	4·40	0·156	0·032
45352 .....	5·23	0·184	0·026
45354 .....	3·86	0·038	0·006
45358 .....	3·16	0·056	0·004
40739 .....	4·46	0·112	0·016
45155 .....	5·21	0·750	0·082
45157 .....	5·13	0·136	0·020
42432 .....	3·94	1·968	0·228
43948 .....	2·67	0·090	0·018
43949 .....	5·30	0·450	0·072
44959 .....	4·68	1·804	0·212

The United States requirements for Wine Vinegar are 4 per cent acetic acid ; 1·0 per cent solids and 0·13 per cent ash.

## MALT VINEGAR.

	Acetic acid.	Solids p. c.	Ash p. c.
42156 .....	4·46	2·248	0·396
42157 .....	3·22	0·050	0·010
45923 .....	2·77	2·168	0·306
45924 .....	3·96	0·928	0·054
45926 .....	4·01	1·686	0·176
45928 .....	3·84	0·150	0·016
45151 .....	4·08	2·388	0·178
45154 .....	4·90	2·280	0·248

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The United States requirements for Malt Vinegar are 4 per cent acetic acid ; 2 per cent solids and 0.20 per cent ash, as minima.

The United States standards quoted have been called in question, as being unfair to the manufacturer, and as being insufficient to protect the consumer. It must be confessed that the great variability of composition exhibited by commercial samples of vinegar, purporting to be of the same species, makes it very difficult to give an exact and effective description of vinegar species. I understand\* that the United States Department of Agriculture is making a first hand study of Cider Vinegar in order to establish its constants. Something of this nature seems to be needed as regards other than Cider Vinegars, and we shall endeavour as far as possible to obtain data which may help in this connection.

I beg to recommend the publication of this report as Bulletin No. 223.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,  
*Chief Analyst.*

Pure Products, Dec. 1910, p. 709.

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BULLETIN No. 223—

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—

1910.							
Oct. 17	Vinegar...	42150	J. F. Crowe & Co., Ltd., Halifax, N.S.	1½ pts.	5	Annapolis Vinegar Co., Bridgetown, N.B.	Manufacturers
" 17	" ..	42151	" " " " " " " "	1½ " "	5	D. W. Wilson, Toronto	"
" 17	" ..	42152	Nat. Drug & Chem. Co., Halifax, N.S.	1½ " "	5	Vendors.	
" 17	" ..	42153	" " " " " " " "	1½ " "	5	"	
" 17	" ..	42154	T. J. Brown, Halifax, N.S.	1½ " "	11	M. W. Graves & Co., Bridgetown, N.S.	Manufacturers
" 17	" ..	42155	W. J. Hopgood & Son, Halifax, N.S.	1½ " "	8	" " "	
" 17	" ..	42156	City Provision Store, Halifax, N.S.	1 qt.	20	Gamble & Co., London, Eng.	Jno. Tobin & Co., Halifax.
" 17	" ..	42157	F. W. Hodgson, Halifax, N.S.	1 " "	10	E. Tracey, Halifax, N.S.	Manufacturers
" 18	" ..	42158	E. S. Tracey, Halifax, N.S.	1½ pts.	nil	Vendor	
" 20	" ..	42159	S. L. Cross, Kentville, N.S.	1½ " "	6	Stand. Vinegar Co., Berwick, N.S.	Manufacturers

## DISTRICT OF PRINCE EDWARD ISLAND—

Sept. 12	Vinegar...	45921	P. A. Smith, Charlottetown.	1 qt.	14	Thos. McCready, St. John, N.B.	
" 13	" ..	45922	S. P. Duffy, Charlottetown.	1 " "	12		J. A. Farquharson, Charlottetown.
" 13	" ..	45923	Jno. McKenna, Charlottetown.	1 " "	14		H. Haszard, Charlottetown.
" 15	" ..	45924	Stewart & Son, Charlottetown.	1 " "	18	Thos. McCready, St. John, N.B.	
" 15	" ..	45925	Geo. Rackham, Charlottetown.	1 " "	12	Carvell Bros., Charlottetown.	
" 16	" ..	45926	Geo. Forbes, Vernon River Bridge.	1 " "	14		Carvell Bros., Charlottetown.
" 16	" ..	45927	J. T. Morrissey, Kentlock.	1 " "	18		J. A. Farquharson, Charlottetown.
" 17	" ..	45928	Jas. St. C. Moore, Eldon.	1 " "	22		Auld Bros., Charlottetown.
" 23	" ..	45929	Jas. Kennedy, Kensington.	1 " "	14	Excelsior Vinegar Co., St. John, N.B.	
" 24	" ..	45930	R. T. Holman, Summerside.	1 " "	18	H. J. Heinz, Pittsburg, Pa.	

## SESSIONAL PAPER No. 14

## VINEGAR.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.							No. of Sample.
	Acetic Acid, $C_2H_4O_2$	Solids in 100 cc.	Ash in 100 cc.	Reaction of Ash.	Chlorides.	Sulphates.	Reaction with Sulphuretted Hydrogen.	Alcohol by Weight.

R. J. WAUGH, INSPECTOR.

	p. c.	p. c.	p. c.					p. c.	
Cider vinegar. ....	2.69	1.302	0.202	Alkaline..	Trace....	Distinct trace.	None ....		42150
White wine vinegar. ..	3.55	0.082	0.017	" ..	None ....	Trace....	" ....		42151
" ..	4.94	0.612	0.060	" ..	Trace....	" ....	" ....		42152
Cider vinegar. ....	3.98	0.722	0.078	" ..	Slight trace.	" ....	" ....		42153
" ..	4.68	2.118	0.300	" ..	Trace....	" ....	" ....		42154
" ..	4.36	2.206	0.368	" ..	" ....	" ....	" ....		42155
Malt vinegar. ....	4.46	2.248	0.396	Neutral..	Distinct trace.	Consider- able trace.	" ....		42156
Labelled pure malt vinegar.	3.22	0.050	0.010	Alkaline..	None ....	Trace....	" ....		42157
White wine XXX vinegar.	4.51	0.044	0.018	" ..	" ....	None ....	" ....		42158
Cider vinegar. ....	4.68	2.768	0.374	" ..	Trace....	Slight trace.	" ....		42159

THEO. MOORE, INSPECTOR.

XXX cider vinegar. ..	4.51	0.168	0.026	Alkaline..	Trace....	Distinct trace.	None ....		45921
White wine vinegar. ..	3.88	0.504	0.044	" ..					45922
Malt vinegar. ....	2.77	2.168	0.306	" ..	Distinct trace.	Distinct trace.	None ....		45923
" ..	3.96	0.928	0.054	" ..					45924
White wine vinegar. ..	3.48	0.144	0.024	" ..					45925
Malt vinegar. ....	4.01	1.686	0.176	" ..					45926
White wine vinegar. ..	3.07	0.076	0.012	" ..					45927
Malt vinegar. ....	3.84	0.150	0.016	" ..					45928
Cider vinegar. ....	2.95	1.828	0.364	" ..	Distinct trace.	Distinct trace.			45929
White wine vinegar. ..	4.40	0.156	0.032	" ..					45930

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—							
1910							
Sept. 20	Vinegar.	45349	G. A. Troop & Co., St. John, N.B.	1 qt.	10	Vender.	
" 20	"	45350	The Excelsior Vinegar Co., St. John, N.B.	1 "	10	"	
" 20	"	45351	The Excelsior Vinegar Co., St. John, N.B.	1 "	10	"	
" 21	"	45352	T. McCready & Sons, Ltd., St. John, N.B.	1 "	10	"	
" 21	"	45353	McPherson Bros., St. John, N.B.	1 "	10		Baird & Peters, St. John.
" 21	"	45354	Harry G. McBeach, St. John, N.B.	1 "	10	The Standard Vinegar Co. Ltd., Stouffville, Ont.	
Oct. 4	"	45355	H. C. Jewett, Fredericton, N.B.	1 "	10	M. W. Graves & Co., Bridgetown.	
" 5	"	45356	John Graham Estate, Woodstock, N.B.	1 "	10	M. W. Graves & Co., Bridgetown.	
" 17	"	45357	G. F. Smith, Sussex, N.B.	1 "	10		F. P. Reed & Co. Ltd., Moncton.
" 18	"	45358	2 Barkers, Ltd., Moncton, N.B.	1 "	10	Canadian Beverage Co. Ltd., Amherst, N.S.	

DISTRICT OF QUEBEC—

Sept. 19	Vinegar.	36316	Hamel & Bedard, 728 Rue St. Valier, Quebec.	1½ pts.	13	St. Lawrence Co. ....	Manufacturers .....
" 20	"	36317	A. Rinfret, 114 Rue St. Joseph, Quebec.	1½ "	13	Unknown.....	Bovinis & Grenier...
" 20	"	36318	A. Rinfret, 114 Rue St. Joseph, Quebec.	1½ "	9	" .....	" .....
" 21	"	36319	Cantin & Frere, 271 Rue St. Joseph, Quebec.	1½ "	15	Eureka Vinegar.....	Manufacturer.....
" 21	"	36320	Cantin & Frere, 271 Rue St. Joseph, Quebec.	1½ "	15	" .....	" .....
" 21	"	36321	Cantin & Frere, 271 Rue St. Joseph, Quebec.	1½ "	20	" .....	" .....
" 22	"	36322	O. Lacroix, 19 Rue St. Joseph, Quebec.	1 bot.	25	Holbrooks, London...	J. B. Reneand & Cie.
" 22	"	36323	O. Lacroix, 19 Rue St. Joseph, Quebec.	1 "	15	T. Cessat, Jeunes, Bordeaux.	A. Toussaint & Cie., Quebec.
" 22	"	36324	O. Lacroix, 19 Rue St. Joseph, Quebec.	1 "	25	Lovet Frere & Co., Bordeaux.	U. Francoeur, Quebec
" 22	"	36325	O. Lacroix, 19 Rue St. Joseph, Quebec.	1½ pts.	15	St. Lawrence Co. ....	Manufacturers .....



## SESSIONAL PAPER No. 14

## VINEGAR.

Inspector's Report. (Is not an expression of opinion)	RESULTS OF ANALYSIS.							
	Acetic Acid $C_2H_4O_2$	Solids in 100 c. c.	Ash in 100 c. c.	Reaction of Ash.	Chlorides.	Sulphates.	Reaction with Sulphur- retted Hydrogen.	Alcohol by Weight.

## J. C. FERGUSON, INSPECTOR.

	p.c.	p.c.	p.c.					
Apple Cider Vinegar	4.63	2.370	0.384	Alkaline..	Trace ..	Slight trace.	None.....	45349
Cider Vinegar.....	4.63	1.114	0.152	" ..	None.....	Trace .....	" .....	45350
Spirit Vinegar.....	6.88	0.188	0.022	Neutral...	" .....	" .....	" .....	45351
White Wine Vinegar..	5.23	0.184	0.026	Alkaline..	" .....	None.....	" .....	45352
Cider Vinegar.....	3.86	1.728	0.256	" ..	Slight trace.	Distinct traces.	" .....	45353
White Wine Vinegar..	3.86	0.038	0.006	" ..	" .....	None.....	" .....	45354
Apple Cider Vinegar..	3.93	2.348	0.344	" ..	" .....	" .....	" .....	45355
Apple Cider Vinegar..	3.93	2.152	0.328	" ..	" .....	" .....	" .....	45356
Cider Vinegar, (Pyra- mid Brand.)	2.52	1.766	0.416	" ..	Distinct traces. Slight trace.	Distinct trace.	None.....	45357
White Wine Vinegar..	3.16	0.056	0.004	" ..	" .....	None.....	" .....	45358

## E. BELAND, INSPECTOR.

.....	7.48	0.370	0.040	Neutral...	None ..	Distinct traces.	None.....	36316
.....	7.72	0.412	0.064	Alkaline..	Distinct traces.	" ..	" .....	36317
.....	5.40	0.272	0.032	" ..	Trace.....	Distinct trace.	" .....	36318
.....	8.37	0.244	0.060	" ..	" .....	Trace.....	" .....	36319
.....	7.92	0.182	0.044	" ..	None.....	None.....	" .....	36320
.....	3.50	3.712	0.460	" ..	Distinct traces.	C'nsid'rble amount.	" .....	36321
.....	5.40	3.531	0.364	" ..	Trace...	" ..	" .....	36322
.....	9.67	10.530	0.508	" ..	C'nsid'rble amount.	Distinct traces.	" .....	36323
.....	6.72	0.216	0.044	" ..	None.....	Trace.....	" .....	36324
.....	6.88	0.320	0.026	" ..	Distinct traces.	Distinct trace.	" .....	36325

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—

1910							
Sept. 17	Vinegar.	41043	R. O. Brodeur, St. Hyacinthe.	1 qt.	13		
" 19	"	41044	May & Houlihan, Sherbrooke.	1 "	10		
" 19	"	41045	Alfred Lanctot, Sherbrooke.	1 "	7		
" 19	"	41046	Bernard & Co., Sherbrooke.	1 "	10		
" 19	"	41047	Theriault & Leclerc, Sherbrooke.	1 "	10		
" 19	"	41048	N. Lacroix, Sherbrooke.	1 "	10		
" 20	"	41049	Biron & Blouin, Sherbrooke.	1 "	10	Wilson, L.B., Toronto	
" 20	"	41050	W. B. Murray, Sherbrooke.	1 "	10		
" 20	"	41051	V. Archambault, Sherbrooke.	1 "	10		
" 20	"	41052	Hebert & Fortier, Sherbrooke.	1 "	10		

## DISTRICT OF MONTREAL—

Sept. 14	Vinegar.	40739	L. S. Guay, 124 Sherbrooke W. Montreal	1 qt.	15		
" 14	"	40740	Hutton Bros., St. Antoine St., Montreal.	1 "	15	Robt. Mt. illar, Montreal	
" 14	"	40741	Joseph Landry, 683 St. James St., Montreal	1 "	10		Laporte Martin Ltd.
" 15	"	40742	A. Menard, 20 Prince Arthur E., Montreal	1 "	10		Hudon Hebert Co., Ltd.
" 15	"	40743	J. E. Lemay, 325 Clark St., Montreal.	1 "	10		
" 15	"	40744	Swift's Provision Store, 2000 Waverly St., Montreal.	1 "	15		
" 15	"	40745	E. Martin, 203 Laurier W. Montreal.	1 "	7		
" 16	"	40746	Willison Bros., 20 Prince Arthur W., Montreal.	1 "	15		
" 16	"	40747	P. Daoust, 276 Sherbrooke St. W., Montreal.	1 "	15		
" 16	"	40748	M. O'Reilly, 58 James St., Montreal.	1 "	15		

## SESSIONAL PAPER No. 14

## VINEGAR.

Inspector's Report. (Is not an expression of opinion.)	RESULTS OF ANALYSIS.							No. of Sample.
	Acetic acid $C_2H_4O_2$	Solids in 100 cc.	Ash in 100 cc.	Reaction of ash.	Chlorides.	Sulphates.	Reaction with Sulphuretted Hydrogen.	Alcohol by weight.

J. J. COSTIGAN, ACTING INSPECTOR.

	p.c.	p.c.	p.c.					p.c.	
.....	5.23	0.260	0.012	Alkaline..	Trace....	Trace....	None....	0.89	41043
Cider Vinegar.....	4.13	0.996	0.094	"	Distinct traces.	Distinct traces.	" ....	0.11	41044
.....	4.32	0.208	0.070	"	Present...	Trace....	" ....	0.37	41045
.....	6.00	0.126	0.026	"	None....	" ....	" ..	0.42	41046
.....	4.02	0.112	0.018	"	Slight trace.	" ....	" ....	Trace....	41047
.....	4.08	0.086	0.012	"	"	" ....	" ....	0.32	41048
.....	4.14	0.106	0.020	"	"	" ....	" ....	0.26	41049
.....	4.06	0.106	0.028	"	"	" ....	" ..	0.16	41050
.....	4.13	0.104	0.014	"	"	" ....	" ....	0.16	41051
.....	5.88	0.140	0.028	"	"	" ....	" ....	1.00	41052

J. J. COSTIGAN, INSPECTOR.

White Wine Vinegar..	4.46	0.112	0.016	Alkaline..	None....	Trace ....	None....	0.53	40739
Cider Vinegar.....	4.80	2.654	0.280	"	" ....	" ....	" ....	0.26	4074
.....	4.90	0.186	0.020	"	Trace....	" ....	" ....	0.11	40741
.....	4.63	0.144	0.044	"	" ....	Slight trace.	" ....	0.11	40742
.....	5.04	0.746	0.030	"	Slight trace.	Trace....	" ....	0.11	40743
.....	5.18	0.174	0.012	"	None....	" ....	" ....	0.11	40744
.....	6.62	0.068	0.038	"	" ....	" ....	" ....	0.32	40745
XXX.....	4.68	0.226	0.010	"	" ....	" ....	" ....	0.16	40746
.....	5.16	0.284	0.010	"	Trace....	" ....	" ....	0.58	40747
.....	6.60	0.146	0.048	"	" ....	" ....	" ....	0.26	40748

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—

1910.							
Sept. 13	Vinegar...	43131	McCuaig Cheuey & Co., 1 qt... Vankleek Hill.	10	Wilson Lyttle and Manufacturers..... Badgerow, Toronto		
" 13	" ..	43132	Cameron & Downing, 1 " .. Vankleek Hill.	10	CanadianVinegar Co., Mathewson's Sons, Montreal. Montreal.		
" 21	" ..	43133	P. J. Campbell, Ren- 1 " .. frew.	10	Wilson Lyttle and Manufacturers . . . Badgerow, Toronto		
" 21	" ..	43134	Stewart Bros. & Co., 1 " .. Renfrew.	10	CanadianVinegar Co., Mathewson's Sons, Montreal. Montreal.		
" 26	" ..	43135	L. Frair, Somerset st., 1 " .. Ottawa.	10	Unknown.....	H. B. Borbridge, Agent through F. J. Castle Co.	
" 26	" ..	43136	A. P. Johnson, Bronson 1 " .. Ave., Ottawa.	20	" ..	H. N. Bate & Sons, Ltd., Ottawa.	
" 26	" ..	43137	T. Bowman, Somerset 1 " .. St., Ottawa.	10	" ..	F. J. Castle Co., Ltd., Ottawa.	
" 26	" ..	43138	N. S. Schwerdfager, 1 " .. Ottawa.	13	Wilson Lyttle and Manufacturers . . . Badgerow, Toronto		
" 27	" ..	43139	Lapensee & Lafleur, 1 " .. Albert St., Ottawa.	10	Unknown.....	H. N. Bate, Sons, Ltd., Ottawa.	
" 27	" ..	43140	W. Farmer, Wellington 1 " .. St., Ottawa.	7	" ..	" ..	

DISTRICT OF KINGSTON—

Oct. 5	Vinegar...	46554	D. B. Murray, Kings- 1 qt... ton.	15	Vendor. . . . .		
" 5	" ..	46555	S. T. Kirk, Kingston. 1 " ..	10	D. B. Murray, Kings- ton.		
" 5	" ..	46556	J. Crawford, Kingston 1 " ..	10	" ..		
" 7	" ..	46557	B. E. Hopkinson, 1 " .. Kingston.	10	.....	Fewick and Hendry Co., Kingston.	
" 7	" ..	46558	Geo. Gibson, Kingston 1 " ..	10	D. B. Murray, Kings- ton.		
" 7	" ..	46559	H. M. Stover, Kingston 1 " ..	10	.....	A. Maclean, Kings- ton.	
" 7	" ..	46560	W. J. Arniel, Alfred 1 " .. St., Kingston.	10	D. B. Murray, Kings- ton.		
" 7	" ..	46561	W. H. Medley, Kings- 1 " .. ton.	10	" ..		
" 7	" ..	46562	N. J. Nesbitt, Kings- 1 " .. ton.	10	" ..		
" 7	" ..	46563	C. H. Pickering, Kings- 1 " .. ton.	10	.....	Geo. Robertson. Kingston.	

DISTRICT OF TORONTO—

Sept. 10	Vinegar...	45149	Thos. B. Franklin, 643 1 qt... Queen St., Toronto..	25	Unknown.....		
" 9	" ..	45150	The Queen City Vine- 1 " .. gar Co. Ltd., 19 River St., Toronto..	10	Vendors.....		
" 9	" ..	45151	The Wilson Lytle Bad- 1 " .. gerow Co. Ltd., Front St., West Toronto...	10	" ..		

## SESSIONAL PAPER No. 14

## VINEGAR.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.								No. of Sample.
	Acetic Acid, C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>	Solids in 100 cc.	Ash in 100 cc.	Reaction of Ash.	Chlorides.	Sulphates.	Reaction with Sulphuretted Hydrogen.	Alcohol by weight.	
J. A. RICKEY, INSPECTOR.									
White Wine Vinegar. ....									43131
Clarified Proof Vinegar	4.70	0.180	0.020	Alkaline.	Trace	Trace	Slight darkening	0.79	43132
XXX White Wine Vinegar. ....									43133
.....									43134
Cider Vinegar .....									43135
Malt Vinegar.....									43136
.....									43137
.....									43138
.....	4.01	0.442	0.024	Alkaline.	Trace	None	None	0.16	43139
.....	3.96	0.346	0.026	"	"	"	"	0.11	43140

## JAS. HOGAN, INSPECTOR.

									46554
									46555
									46556
									46557
									46558
									46559
									46560
									46561
									46562
									46563

## H. J. DAGAR, INSPECTOR.

Labelled Franklin's Imported English Malt Vinegar									45149
XX Vinegar	3.89	0.094	0.008	Alkaline.	None	None	None	0.05	45150
Malt Vinegar	4.08	2.388	0.178	"	Trace	Distinct traces.	"	0.11	45151



2 GEORGE V., A. 1912

BULLETIN 223—

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—

1910.							
Sept. 19	Vinegar...	45152	Dominion Vinegar Co., 1 qt .. Hamilton.	10	Vendors.		
" 19	" ..	45153	The Imperial Vinegar 1 .. & Pickling Co. Ltd. Hamilton	10	"		
" 21	" ..	45154	W. J. O'Brien, 94 Jas. 1 .. St., North Toronto	25		Imported from Eng- land	
" 22	" ..	45155	W. McKim. Orange- 1 .. ville.	10	Standard Vinegar Co. Ltd., Stouffville		
" 22	" ..	45156	Taylor Pringle Co. Ltd. 1 .. Owen Sound	10	Vendors		
" 26	" ..	45157	J. M. Cook, 459 College 1 .. St. Toronto	10	The Queen, City Vine- gar Co. Ltd, Toronto		
" 26	" ..	45158	W. B. Pringle, Whitby 1 ..	10	The Whitby Fruit & Vinegar Co., Whitby		

## DISTRICT OF LONDON—

Sept. 24	Vinegar...	44623	Jackson & Son, Guelph 1½ pts.	10	Wilson & Little, Tor- onto		
" 30	" ..	44650	James Cutt, Blythe... 1 pt	10		Elliott Mar & Co., London	
Oct. 7	" ..	44656	Geo. Nairn, Windsor. 1 ..	10	The Bell Vinegar Co., Belleville		
" 12	" ..	44660	McCormick & Son, ½ .. London	10	Imperial Vinegar Co., Hamilton		
" 12	" ..	44664	Mr. Fleming ..... ½ ..	10	Wilson, Little & Co., Toronto		

## DISTRICT OF WINDSOR—

Sept. 13	Vinegar...	42432	R. J. Wood, London, 3 bots.	15	Belleville Vinegar Co., Belleville		
" 13	" ..	42433	Cullis & Fleming, Lon- 5 .. don, Ont.	10	Belleville Fruit & Vinegar Co., Belle- ville		
" 13	" ..	42434	Pruney Bros., London, 3 ..	10	Wilson, Lyttle & Bad- gerow, Toronto		
" 13	" ..	42435	Pruney Bros., London, 3 ..	10	R. Garner, London		
" 13	" ..	42436	E. S. English, London, 3 ..	10	S. Allin, Norwich		
" 13	" ..	42437	E. & O. Boug, London, 3 ..	8	L. M. Vandernade, London		
" 14	" ..	42440	R. Garner, London, 3 ..	nil	Vendor		
" 14	" ..	42441	L. M. Vandernade, 3 .. London, Ont.	"	"		

## VINEGAR.

RESULTS OF ANALYSIS.								No. of Sample
Inspector's Report. (Is not an expression of opinion.)	Acetic Acid. $C_2H_4O_2$	Solids in 100 c. c.	Ash in 100 c. c.	Reaction of Ash.	Chlorides.	Sulphates.	Reaction with Sulphuric Hydrogen.	

	p.c.	p.c.	p.c.					p.c.	
XXX Vinegar.....	4·82	0·140	0·012	Alkaline.	None.....	Slight trace.	None.....	0·31	45152
XXX Vinegar .....	5·30	0·112	0·006	" ..	" .....	" .....	" .....	0·11	45153
Labelled Champion Celebrated Pure Malt Vinegar .....	4·90	2·280	0·248	" ..	Considerabl ppte.	Ppte .....	" .....	0·00	45154
XXX English White Wine Vinegar.....	5·21	0·750	0·032	" ..	Slight trace.	Slight trace.	" .....	0·26	46155
XXX Cider Vinegar..	5·31	2·038	0·254	" ..	Traces....	Trace.....	" .....	0·16	45156
XXX White Wine Vinegar.....	5·13	0·136	0·020	" ..	" .....	Slight trace.	" .....	0·11	45157
XXX Cider Vinegar.	4·77	2·042	0·316	" ..	Slight trace.	Slight trace.	" .....	0·11	45158

[illegible][illegible]

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—

1910							
Nov. 15	Vinegar..	45845	Mrs. J. R. Wallace, 1 qt., Winnipeg.	10	10	The Blackwood, Ltd., Winnipeg.	Unknown. . . . .
" 15	" ..	45846	A. Ingram, Winnipeg. 1 " ..	10	10	" ..	" .. . . .
" 15	" ..	45847	M. Feinstein, 737 Stella 1 " ..	5	5	" ..	Manufacturers.. . . .
" 15	" ..	45848	Wachnaw, 663 Stella 1 " ..	10	10	Unknown . . . . .	Weidman Bros., Winnipeg. . . . .
" 15	" ..	45849	S. Ginsberg, 664 Stella 1 " ..	10	10	The Dyson Co., Win- nipeg.	Unknown. . . . .
" 16	" ..	45850	J. Iobbt, Winnipeg. . . 1 " ..	10	10	The White Star Manu- facturing Co., Win- nipeg.	A. Macdonald & Co., Winnipeg. . . . .
" 16	" ..	45851	P. Nelson, Winnipeg. . . 1 " ..	5	5	The Blackwood, Ltd., Winnipeg.	Unknown. . . . .
" 16	" ..	45852	S. J. Deroche, Winni- 1 " ..	10	10	The White Star Manu- facturing Co., Win- nipeg.	" .. . . .
" 16	" ..	45853	The Dyson Co., Winni- 1 " ..	nil.	nil.	Vendors. . . . .	Manufacturers . . . . .
" 16	" ..	45854	The Dyson Co., Winni- 1 " ..	"	"	" ..	" .. . . .

DISTRICT OF CALGARY—

Sept. 23	Vinegar..	43944	R. V. Shaw & Co., 1 qt., East Calgary.	20	20	Georgeson Co., Ltd., Calgary.	Georgeson Co., Ltd., Calgary.
" 23	" ..	43945	Jenkins & Comfort, 1 " ..	20	20	" ..	" .. . . .
" 23	" ..	43946	R. J. Frizzle, East 1 " ..	20	20	Wilson, Lyttle & Bad- gerow Co., Toronto.	" .. . . .
" 27	" ..	43947	Georgeson & Co., Ltd., 1 " ..	20	20	Vendors . . . . .	" .. . . .
" 27	" ..	43948	L. T. Mewburn & Co., 1 " ..	20	20	Wilson, Lyttle & Bad- gerow Co., Toronto.	" .. . . .
" 27	" ..	43949	G. F. & J. Galt, Ltd., 1 " ..	20	20	Vendors . . . . .	" .. . . .
" 27	" ..	43950	Campbell, Wilson & 1 " ..	20	20	Wilson, Lyttle & Bad- gerow Co., Toronto.	" .. . . .
" 28	" ..	43951	S. G. Freeze, Calgary.. 1 " ..	25	25	Annapolis Valley Vin- egar Mfg. Co., Bridgetown, N.S.	" .. . . .
" 28	" ..	43952	J. T. Macdonald, Cal- 1 " ..	40	40	Midland Vinegar Co., Birmingham, Eng.	" .. . . .
" 28	" ..	43953	Howson, McEwen Co., 1 " ..	25	25	Crosse & Blackwell, London, Eng.	" .. . . .



2 GEORGE V., A. 1912  
BULLETIN No. 223—

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—

1910.							
Oct. 12	Vinegar ..	38064	B.C. Distillery Co., Ltd., Vancouver.	1 qt.	25	Vendors ..	.....
" 12	" ..	38065	N. R. Estabrooks, Vancouver.	1 "	15	W. J. Pendray, Victoria.	.....
" 13	" ..	38066	London Grocery Co., Vancouver.	1 "	25	Stephens, Gloucester.	.....
" 13	" ..	38067	Empress Mfg. Co., Vancouver.	1 "	25	Wilson Loatte, Toronto.	.....
" 13	" ..	38068	W. H. Walsh & Co., Vancouver.	1 "	25	G. F. Sutton & Sons, London, Eng.	.....
" 13	" ..	38069	A. Antipas, Vancouver.	1 "	25	B.C. Distillery, Vancouver.	.....
" 13	" ..	38070	T. W. Cardinal, Kitsilano, Vancouver.	1 "	25	Crosse & Blackwell, London, Eng.	.....
" 13	" ..	38071	Fraser & McLeod, Kitsilano, Vancouver.	1 "	15	.....	Hudson's Bay Co., Vancouver.
" 13	" ..	38072	Gurhey & Carland, Fairview, Vancouver.	1 "	15	.....	W. H. Malkin & Co., Vancouver.
" 13	" ..	38073	David Spencer, Ltd., Vancouver.	1 "	15	Wilsons ..	W. K. Houston & Co., Victoria.

## DISTRICT OF VICTORIA—

Oct. 12	Vinegar ..	44955	Windsor Grocery Co., Victoria, B.C.	1 qt.	25	Grimble & Co., Ltd., London, Eng.	.....
" 12	" ..	44956	The West End Grocery Co., Ltd., Victoria, B.C.	1 "	20	Purnell, Bristol, Eng.	.....
" 12	" ..	44957	Saunders Grocery Co., Ltd., Victoria, B.C.	1 "	20	Rowat & Co., Glasgow and Liverpool.	.....
" 12	" ..	44958	Copas & Young, Victoria, B.C.	1 "	25	Crosse & Blackwell, London, Eng.	.....
" 13	" ..	44959	H. O. Kirkham, Victoria, B.C.	1 "	25	R. G. Wilcocks, Los Angeles, Cal.	.....
" 17	" ..	44960	E. G. Bailey, Victoria, B.C.	1 "	20	Empress Mfg. Co., Vancouver, B.C.	.....
" 17	" ..	44961	F. E. Plummer, Victoria, B.C.	1 "	15	B. C. Vinegar Works, Vancouver, B.C.	.....
" 17	" ..	44962	Erskine & Co, Victoria, B.C.	1 "	25	E. Lazenby & Son, Ltd., London, Eng.	.....
" 17	" ..	44963	Harrison & McDonald, Victoria, B.C.	1 "	25	W. K. Houston & Co., Victoria.	.....
" 18	" ..	44964	L. Dickinson, Victoria, B.C.	1 "	20	White Cottells, Camberwell, London, Eng.	.....





## APPENDIX S.

## BULLETIN No. 224—TOMATO CATSUP.

OTTAWA, May 30, 1911.

W. J. GERALD, Esq.

Deputy Minister of Inland Revenue.

SIR,—In June and July of last year a collection of Tomato Catsup was made, ten samples being obtained in each of the fifteen inspectoral districts.

The samples in question were all examined by my assistants and reported to me; but the records were believed to have been destroyed in the fire of 4th January last; which also destroyed the samples themselves.

The recovery of part of the reports on these samples of catsup makes it possible to hand you this fragmentary record; which possesses certain features of interest that may justify its publication.

In the cases of the following districts, the analytical records are totally lost, viz:—

	Samples.
Nova Scotia .....	10
Prince Edward Island.....	10
New Brunswick.....	8
Kingston.....	10
London.....	11
Manitoba.....	6
Vancouver.....	10
Victoria .....	10
Total lost .....	75

The present report, therefore, includes as follows:—

	Samples.
District of Quebec.....	10
"    St. Hyacinthe.....	10
"    Montreal .....	10
"    Ottawa.....	10
"    Toronto .....	10
"    Windsor .....	10
"    Manitoba.....	5
"    Calgary.....	10
Total .....	75

Catsup is rather to be regarded as a condiment, i.e., a seasoning for food than as a food proper; for which reason a consideration of the total nutriment derivable from the article would be out of place. The value of a catsup is to be judged rather by its palatability, and its effectiveness as a stimulant to appetite, than by its nutritive quality.

## SESSIONAL PAPER No. 14

If however tomato catsup derive, in any degree, its value from the actual amount of fruit spices and other solid matters used in its production, there is room for astonishment at the great variability in dry solids found in the 75 samples now reported. The total solid matter varies from less than 5 per cent (No. 1349) to above 30 per cent. (Nos. 45089 and 43782) of the weight of the article. The mineral solids (chiefly salt) vary from 0.68 per cent to 3.82 per cent.

Bulletin No. 129 (Dec. 1906) contains a report upon 49 samples of tomato catsup, and in these a variation of from 7.44 p.c. to 29.04 p.c., was noted in total solids; while the mineral matter (ash) varied from 1.60 to 7.66 per cent. It is worthy of note that the highest ash is not found in those samples which give highest total solid matter.

Under the regulations made in conformity with the Pure Food Law of the United States, catsup is defined as 'The clean, sound product, made from the properly prepared pulp of clean, sound, fresh, ripe tomatoes, with spices, and with or without sugar and vinegar.'

This definition is very incomplete, inasmuch as it contains nothing quantitative. It would seem reasonable to insist upon a certain minimum amount of fruit, and perhaps of spices, in catsup. The definition quoted possesses, however, one important and valuable feature, in that it insists upon the pulp being clean and sound, and prepared from clean, sound, fresh and ripe fruit. Many convictions have been obtained against manufacturers whose catsup has been found mouldy, rotten or swarming with bacteria. (See notices of judgment 156, 388, &c.). But even here there is a difficulty, since an absolutely sterile catsup is practically impossible. It would seem well to fix upon a bacterial limit, beyond which the article would be illegal. Section 3 (e) of our Adulteration Act is quite as precise as the definition above quoted.

All of the 75 samples reported were found to be in good condition, and free from moulds or decay.

Three (3) samples contained salicylic acid as a preservative; forty-six (46) contained benzoic acid, and six (6) contained sulphurous acid or sulphites. These last were, of course, artificially coloured.

Coal tar dyes were found in 54 cases. There is no greater objection to harmless colouring matter in catsup than in candy. But a suspicion naturally arises that the colour may be used to conceal inferiority in the article, since it is well known that the use of fresh and ripe tomatoes renders a dye unnecessary; and in fact, some of the most attractively coloured samples herein reported were found to be free from dyes.

The question of fixing a standard for tomato catsup must receive consideration in due course; and a collection to supplement that herein reported, will be made as soon as work in hand permits.

This report is belated, for reasons already given. The work contained in it belongs to the fiscal year ending March 31, 1911.

I beg to recommend its publication as Bulletin 224.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,  
*Chief Analyst.*

2 GEORGE V., A. 1912

## BULLETIN No. 224—TOMATO CATSUP.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.					No. of Sample.
							Total Solids.	Acidity stated as Acetic Acid.	Coal Tar Dyes.	Salicylic Acid.	Benzoic Acid.	Sulphurous Acid.

## DISTRICT OF QUEBEC—E. BELAND, INSPECTOR.

June 23 1910.	Tomato Catsup.	36423	Alexandre Marcoux, Beauport.	3 Bots	30	Quebec Preserving Co., Quebec.	p.c. 10.04	p.c. 2.88	p.c. 1.05	Pre-sent.	None.	None.	36423
" 23	"	36421	Philias Parent, Beauport.	3 "	30	N. Turcotte & Cie, Quebec.	5.50	1.40	0.87	"	None.	"	36424
" 23	"	36425	" " " "	3 "	30	J. B. Renaud & Cie, Quebec.	11.44	1.70	0.71	"	Pre-sent.	"	36425
" 23	"	36426	" " " "	3 "	30	" " " "	17.32	1.56	0.93	"	None.	Pre-sent.	36426
" 23	"	36427	Alphonse Vachon, Beauport.	3 "	45	Unknown	13.44	2.08	0.99	"	"	None.	36427
" 23	"	36428	" " " "	3 "	60	" " " "	18.30	2.30	0.93	"	Pre-sent.	"	36428
" 23	"	36429	Joseph Godreau, Beauport.	3 "	30	Quebec Preserving, Quebec.	8.88	1.34	1.30	"	None.	"	36429
" 23	"	36430	Jule Belanger, Beauport.	3 "	30	N. Rioux & Cie, Quebec.	14.24	2.00	0.74	"	Pre-sent.	"	36430
" 23	"	36431	Elie Noël, Beauport.	3 "	45	J. B. Renaud & Cie, Quebec.	15.40	1.70	0.99	"	None.	"	36431
" 23	"	36432	Narcisse Fortier, Beauport.	3 "	30	N. Rioux & Cie, Quebec.	14.60	1.64	0.68	"	"	"	36432

## DISTRICT OF ST. HYACINTHE—J. C. ROULEAU, INSPECTOR.

June 23	Tomato Catsup	1349	J. Chartier, St. Jean.	3 bts.	45	J. A. Perrault & Cie, Montreal.	4.80	1.80	1.24	Pre-sent.	None.	None.	1349
" 23	"	1350	H. F. Barlow, Magog.	3 "	35	The Aylmer Canning Co., Aylmer, Ont.	12.54	1.74	0.99	"	Pre-sent.	"	1350

## SESSIONAL PAPER No. 14

"	24	"	1351	Ed. Lacroix, Coats- cook.	3	"	60	Grandham Canning Co., St. Catharines.	20.46	3.14	1.12	"	"	None.	"	1351
"	27	"	1352	J. V. Fagnan, 3 Sorel.	3	"	45	Griffith Catsup Co., Dunn- ville.	8.60	1.70	0.99	"	"	Pre- sent.	"	1352
"	28	"	1353	E. Nouri, St. Gre- goire de Nicolet.	3	"	39	The Ozo Co., Ltd., Mon- treal.	14.16	2.46	1.49	None.	"	None.	"	1353
"	29	"	1354	Oet. Petit, Vic- toriaville.	3	"	30	Jos. Lamoureux & Cie, Montreal.	7.26	1.92	1.11	Pre- sent.	"	Pre- sent.	"	1354
"	30	"	1355	J. A. Roussseau, 3 Plessisville.	3	"	30	The Ozo Co., Ltd., Mon- treal.	15.66	3.90	0.68	"	"	Pre- sent.	"	1355
July 11	"	"	1356	J. V. Lavoie, 3 Therford Mines	3	"	30	Quebec Preserving Co., Quebec.	8.88	1.90	0.62	"	"	"	"	1356
"	12	"	1357	E. M. Jacques, 3 West.	3	"	50	Sugars & Camers Ltd., Montreal.	19.54	1.44	1.24	"	"	"	"	1357
"	19	"	1358	Jos. Richard, St. 3 Denis River, Rich.	3	"	30	H. Bonique & Fils, Mon- treal.	14.64	1.34	1.36	None.	"	None.	"	1358

## DISTRICT OF MONTREAL J. I. COSTIGAN, INSPECTOR.

June 17	Tomato Catsup.	39947	A. Rochon, 45 3 Pots Prince Arthur	30	H. Bourque & Fils, Mon- treal.	13 52	1 46	1 36	None.	None.	39947
" 17	"	39948	E. Gougeon, 368 3 Dorchester W., Montreal.	30	"	13 40	3 00	1 05	Pre- sent.	"	39948
" 18	"	39949	W. Bandfont & 3 Sons, Lachine, P.Q.	45	"	10 58	1 90	1 30	"	"	39949
" 20	"	39950	D. Hetu, St. Agathe 3 de Monts.	35	"	11 28	1 42	0 80	"	"	39950
" 21	"	39951	L. V. Giraldeau, 3 Rigaud, P.Q.	45	"	20 80	3 40	1 30	"	"	39951
" 21	"	39952	Chevrier et fiere, 3 Rigaud, P.Q.	45	W. Lorain, Bord à Plouffe, P.Q.	10 14	3 82	1 05	"	Pre- sent.	39952
July 5	"	39953	E. T. Dame, 312 3 Bleury St., Mon- treal.	45	Griffith Catsup Co., Dunn- ville, Ont.	15 14	3 50	1 74	"	"	39953
" 5	"	39954	E. Ferras, St. Lam- 3 bert, P.Q.	30	"	17 28	2 50	0 99	"	"	39954
" 5	"	39955	" " " " 3 " " " "	15	"	14 48	1 34	1 18	None.	"	39955
" 5	"	39956	M. Viger, Lon- 3 gueuil.	75	T. A. Snider Preserve Co., Cincinnati, Ohio	19 20	1 90	0 99	"	Pre- sent.	39956



BULLETIN No. 224—TOMATO CATSUP.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cost.	Name and Address of Manufacturer or Firmisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	RESULTS OF ANALYSIS.				No. of Sample.		
								Total Solids.	Total Ash.	Acidity stated as	Coal Tar Dyes.		Preservatives.	
											Salicylic Acid.	Benzoic Acid.	Sulphurous Acid.	
DISTRICT OF OTTAWA—J. A. RICKEY—INSPECTOR.														
1910.								p.c.	p.c.	p.c.				
June 15	Tomato Catsup.	43046	D. A. Youngblood, 3 Bots band, Elgin St., Ottawa.	3	30	Canada Preserving Co., Ltd., Hamilton.	"Graham's Lily" Brand.	20.14	2.28	1.48	Pre- sent.	None.	None.	43046
" 20	"	43047	J. P. Burrows, 3 O'Connor St., Ottawa.	3	50	H. N. Bate & Sons, Ottawa.	Mfg. by T. A. Lytle Co., Ltd., Toronto.	13.04	2.00	1.24	"	None.	Pre- sent.	43047
" 20	"	43048	S. W. Lee, Elgin 3 St., Ottawa.	3	75	"	Shuler's None made catsup mfd. by T. A. Lytle Co., Cincinnati, Ohio, not arti- ficially colored.	20.04	3.20	1.12	None.	"	None.	43048
" 20	"	43049	E. W. Richardson, 3 Elgin St., Ottawa	3	30	The Turner Co., Ltd., Toronto.	"Turner" Brand.	19.78	1.84	0.62	Pre- sent.	"	Pre- sent.	43049
" 21	"	43050	Alex. Phillips, Som- erset St., Ottawa.	3	30	The T. A. Lytle Co., Ltd., Toronto.	"Canada Brand	18.36	1.80	0.81	"	"	None.	43050
" 22	"	43051	Leacy & Shields, 3 Penbroke.	3	35	H. N. Bate & Sons, Ottawa.	"Graham's Lily" Brand mfd. by Canada Preser- ving Co., Ham- ilton.	18.70	1.00	1.73	None.	"	Pre- sent.	43051
" 22	"	43052	Fenton & Smith, 3 Penbroke.	3	75	Gorman, Eckert & Co., London, Ont.	"Forest City" Brand None made Catsup.	16.70	3.26	1.05	Pre- sent.	"	"	43052

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"	28	"	43053 Mullin Bros., Montreal.	45	Wm. Gabraith & Son, Montreal.	Mfd. by T. A. Lytle Co., Ltd., Toronto.	13-94	1-80	0-80	"	"	Pre-sent.	43053
July 14	4	"	43054 Jno. Whitley, Prescott.	45	Unknown	"Hillcrest" Brand.	11-72	2-24	1-86	"	"	"	43054
"	11	"	43055 Wm. Rhodes, Brockville.	30	Gilmour & Co., Brockville.	"Canada First" Brand, prepared by Aylmer Canning Co., Aylmer, Ont.	13-00	2-20	0-87	"	"	"	43055

## DISTRICT OF TORONTO—H. J. DAGGER—INSPECTOR.

June 16	"	Tomato Catsup.	45087 A. Harris & Co., 3 Bots Uxbridge.	30	The Aylmer Canning Co., Aylmer, Ont.	"Canada first"	12-32	2-20	0-99	Pre-sent.	None.	Pre-sent.	45087
"	18	"	45088 Geo. O. Elder, Mary St. Hamilton.	30	Burlington Canning Co., Burlington.	"Burlington" Brand.	18-18	1-80	0-79	None.	"	"	45088
"	21	"	45089 James Kennedy, Arthur St., Toronto.	45	H. J. Heinz Co., Pittsburgh, Pa.	Heinz Tomato Catsup contains no artificial preservative or coloring.	32-20	2-24	1-79	"	"	None.	45089
"	23	"	45090 John Cheesman, Barrie.	30	Jno. Sloan & Co., Toronto.	"De f i a n c e" Brand.	12-46	1-66	1-05	Pre-sent.	"	Pre-sent.	45090
"	29	"	45091 Ward & Co., Gerard St. E., Toronto.	30	Ingersoll Canning & Preserving Co., Ingersoll.	"Dundee" Brand.	5-30	0-76	0-79	None.	"	"	45091
"	29	"	45092 R. J. Foyntz, Dundas St. W., Toronto.	45	Green & Co., Toronto.	National Brand.	5-84	1-86	2-23	"	"	"	45092
"	30	"	45093 C. H. Crysdale, Oshawa.	30	Napanee Canning Co., Ltd., Napanee.	"Canadas Pride"	16-02	1-08	0-68	Pre-sent.	"	"	45093
July 4	"	"	45095 Thomas Haywood, Orillia.	30	The Meaford Canning Co., Meaford, Ont.	"Vernon" Brand.	6-32	1-90	0-86	"	"	"	45095
"	5	"	45096 Thos. Fielding, Gravenhurst.	45	The T. A. Lytle Co., Ltd., Toronto.	"Canada" Brand.	17-40	1-72	1-18	"	"	"	45096
"	5	"	45097 J. D. Cummings, Bracebridge.	45	The North Land Mfg. Co., Toronto.	H o m e - m a d e choice tomato catsup.	16-44	1-44	1-18	"	"	"	45097

## DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.

June 20	"	Tomato Catsup.	42322 A. H. Scarff & Co., Essex.	35	Wm. Davies & Co., Toronto.	Davies Tomato Catsup.	16-34	2-28	1-98	Pre-sent.	None.	None.	42322
"	20	"	42323 Thos. A. Kennedy, Essex.	45	T. A. Lytle Co., Toronto.	"Canada" Brand.	19-16	2-28	0-99	"	"	Pre-sent.	42323



## SESSIONAL PAPER No. 14

"	23	"	43502	Collins & Munro, 3 pkgs Miami.	45	The Meaford Canning Co., Vernon Meaford, Ont.	43502
"	27	"	43503	G. T. Hoyes, Elm-3 bots. wood.	45	The Dyson Co., Winnipeg. Dyson Red Cross Brand	43503
"	27	"	43504	J. H. McGrath, 3 "	45	T. A. Lytle, Ltd., Toronto Sterling Brand	43504
"	28	"	43505	J. Paterson, Port-3 " age Ave., Win-	75	T. A. Snider Preserve Co., Cincinnati, Ohio.	43505
"	29	"	43506	Pasakov & Zervoin, 3 " Weston.	45	Blackwood, Ltd., Winnipeg	43506
July	6	"	43507	Gregory & Co., St. 3 " James.	45	The Tilbury Canning Co., Ltd., Tillbury, Ont.	43507
"	7	"	43508	A. Biggins, Elgin, 3 " Man.	75	The Dyson Co., Winnipeg. Red Cross Tom- ato Catsup.	43508
"	8	"	43509	Ross & Cumming, 3 " ham, Elgin, Man.	75	Delhi Canning Co., Delhi, Ont.	43509
"	11	"	43510	W. A. Wales, 3 " Neua St., Win-	75	Van Camp Packing Co., Indianapolis, U.S.	43510

## DISTRICT OF CALGARY—R. W. FLETCHER—INSPECTOR.

July	5	Tomato Catsup.	43781	Craddock & Viner, 3 Tins Lethbridge.	40	Delhi Fruit & Vegetable Canning Co., Delhi, Ont.	43781
"	5	"	43782	Hudson Bay Co., 3 Bots Lethbridge.	1 00	Heinz, Pittsburg, Pa.	43782
"	13	"	43783	R. Dunn, Medicine 3 "	60	Gorman, Eckert & Co., Ltd., London, Ont.	43783
"	13	"	43784	The D. Milne Co., 3 " Medicine	1 00	Curcio Bros., Rochester, N.Y.	43784
"	22	"	43785	W. H. Hayes, Cal-3 "	75	Aylmer Canning Co., Ayl- mer, Ont.	43785
"	22	"	43786	F. A. Rosser, Cal-3 Tins gary.	40	" "	43786
Aug.	8	"	43787	C. E. Compton, 3 Bots Wetaskiwin.	90	T. A. Snider Co., Cincin- nati, Ohio.	43787
"	8	"	43788	Thibaudan Trad-3 " ing Co., Wetaski-	1 05	Van Camp Packing Co., Indianapolis, Ind.	43788
Aug.	9	"	43789	Douglas Bros., 3 Bots Ltd., Stratheona.	45	Gorman, Eckert & Co., London, Ont.	43789
"	10	"	43790	A. Livingston, 3 " Edmonton.	75	Van Camp Packing Co., Indianapolis, Ind.	43790





REPORT  
OF THE  
MINISTER OF AGRICULTURE  
FOR THE  
DOMINION OF CANADA  
FOR THE YEAR ENDED MARCH 31  
1911

*PRINTED BY ORDER OF PARLIAMENT*



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1911

[No. 15—1912.]



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# REPORT

## OF THE

# MINISTER OF AGRICULTURE

### 1910-11

*To His Excellency the Right Honourable Sir Albert Henry George, Earl Grey, Viscount Howick, Baron Grey of Howick, in the County of Northumberland, in the Peerage of the United Kingdom, and a Baronet; Knight Grand Cross of the Most Distinguished Order of Saint Michael and Saint George, &c., &c., Governor General of Canada.*

MAY IT PLEASE YOUR EXCELLENCY:

I have the honour to submit to Your Excellency a report of the Department of Agriculture for the fiscal year ended March 31, 1911.

#### I.—GENERAL REMARKS.

A synopsis of the operations of the department and of its various branches which have been efficiently carried out during the past year ended March 31, 1911, is laid before Your Excellency.

The legislation affecting the department during this period consisted of:—

Chapter 31, 9-10 Edward VII, intituled 'An Act to prevent the introduction or spreading of Insects, Pests and Diseases destructive to vegetation.'

Chapter 38, 9-10 Edward VII, intituled 'An Act to amend the Meat and Canned Foods Act.'

Chapter 59, 9-10 Edward VII, intituled 'An Act to provide for the testing of Glassware used in connection with Milk Tests.'

By an order in council of April 6, 1910, townships 1, ranges 2 and 3, west of the third meridian, were reserved during pleasure for the purpose of an Animals' Quarantine.

Vide *Canada Gazette*, vol. xliii, p. 3108.

By an order in council of April 18, 1910, in virtue of the provisions of section 2 of Chapter 128, Revised Statutes of Canada, 1906, intituled 'An Act respecting the Inspection and Sale of Seeds,' the order in council of August 26, 1905, regulating the number of seeds of weeds to be tolerated in any seeds without



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affecting their character, as being within the meaning of the said Act, was rescinded, from and after the first day of July, 1910, and the following regulations made in lieu thereof:—

The number of seeds of the weeds named in sections 6 and 7 of the above mentioned Act that may be tolerated in any seeds without affecting their character as being within the meaning of the said sections free from the seeds of the said weeds, shall be as follows:—

(a) For seed of oats, barley, wheat or other seeds that are similar in size to these grains, one weed seed in one pound avoirdupois;

(b) For seed of timothy, red clover and alfalfa, five weed seeds in one ounce avoirdupois;

(c) For seed of alsike, ten weed seeds in one ounce avoirdupois;

It was further ordered that the standard of vitality for good seed of each of the various kinds of cereal grains, grasses, clovers, fodder plants, field root and garden vegetable crops shall be as follows, and shall take effect from the date of the publication hereof in the *Canada Gazette*:—

	Per cent.
Cereal grains, including Indian corn and millet.. . . .	95
Flax . . . . .	95
Peas, beans and vetches . . . . .	90
Red clover, alfalfa, alsike, white and other clovers . . . . .	95
Timothy, cocksfoot and meadow fescue . . . . .	90
All other grasses . . . . .	81
Mangels and beets, balls, 90 per cent, sprouts . . . . .	160
Turnips, swedes, rape, radish, cabbage, cauliflower . . . . .	90
Spinach . . . . .	80
Carrot . . . . .	80
Celery, parsley and parsnip . . . . .	65
Cucumber, melon, squash and other cucurbits . . . . .	90
Onions and leeks . . . . .	90
Tomato . . . . .	90
Lettuce . . . . .	95

Vide *Canada Gazette*, vol. xliii, p. 3204.

By proclamation dated June 6, 1910, under the provisions of 'The Census and Statistics Act,' it was ordered that the following directions should be observed in connection with the taking of a census of Canada in 1911:—

1. The population to be recorded shall be the population in existence *de jure* on the first day of June, 1911, and other information to be gathered shall also have reference to the same date unless otherwise specified in the schedules or determined by the Minister of Agriculture.

2. The division of the country into census districts and subdistricts shall correspond as nearly as may be with the existing electoral divisions and subdivisions;

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and the said census districts may be further divided into such subdistricts as the Minister of Agriculture may direct as units of enumeration for census purposes; and in territories not so defined or situated as to admit of adhering to circumscriptions already established special divisions and subdivisions shall be formed for census purposes by authority of the Minister of Agriculture.

3. The subdistricts of a census district shall ordinarily consist of townships, parishes, cities, towns and incorporated villages.

4. There shall be a census commissioner for each census district and one enumerator for each subdistrict or part thereof, or for a group of subdistricts when the Minister of Agriculture in special cases so directs; and the duties of such officers and the period of time within which their returns and reports must be completed and made shall be as provided in the Act and according to the regulations and instructions authorized by the Act, or as in special cases the Minister of Agriculture may direct.

5. The remuneration and allowance for the several census commissioners, agents or other persons employed in taking the census may be a fixed sum, a rate per diem, or a scale of fees, together with allowance for expenses in the outlying parts of the Dominion, according to a table of rates to be prepared by the Minister of Agriculture and approved by the Governor General in Council.

6. A census of Indians when living on reserves or otherwise may be taken under direction of the Minister of Agriculture by officers or employees of the Department of Indian Affairs, or by enumerators or agents appointed for the purpose; and the census of the Northwest Territories and other unorganized regions in the northern parts of the Dominion by members of the Royal North West Mounted Police or by other persons or agents, as may in each case be deemed by the Minister of Agriculture advantageous and expedient.

7. At the discretion of the Minister of Agriculture and subject to such limitations of institutions, of establishments or of territory as he may determine, the census of infirmities (schedule 1), of the forest (schedule 8), of factories (schedule 9), of fisheries, (schedule 11), and of mines (schedule 13), may be taken by the regular enumerators or by special agents appointed for the purpose; but so that in every such case provision shall be made for the complete enumeration of every locality, district and province of the Dominion.

8. The Bertillon or International nomenclature will be adopted in taking the census of mortality (schedule 2), and to ensure as full a record of diseases or causes of death as possible it is advisable to obtain the co-operation of provincial or local officers of vital statistics where such offices have been organized under arrangements and terms to be sanctioned by the Minister of Agriculture.

9. That the details of information and forms to be used shall be as indicated by the schedules and by the instructions and blank forms issued by the Minister of Agriculture for the working thereof.

Vide *Canada Gazette*, vol. xlv, (supplement).

By order in council of June 29, 1910, in virtue of the provisions of section 6 of 'The Milk Test Act,' regulations were established. (See Appendix No. 20.)

Vide *Canada Gazette*, vol. xlv, p. 2170.

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By proclamation dated July 6, 1910, under the provisions of chapter 59, 9-10 Edward VII, intituled 'An Act to provide for the testing of glassware used in connection with milk tests,' the said Act came into force from and after the 1st day of January, 1911.

Vide *Canada Gazette*, vol. xliv, p. 165.

By an order in council of July 6, 1910, in virtue of the provisions of chapter 27, 6-7 Edward VII, intituled 'An Act respecting the inspection of meat and canned foods,' regulations governing the inspection of preserved fruits, vegetables and milk were established. (See Appendix No. 18.)

Vide *Canada Gazette*, vol. xliv, p. 167.

By order in council of July 27, 1910, in virtue of the provisions of chapter 3 of 'The Destructive Insect and Pest Act,' the regulations established by order in council of May 11, 1910, were amended by adding thereto the following section after section 13:—

'13½. All nursery stock originating in Japan or in any one of the States of Vermont, New Hampshire, Maine, Massachusetts, Connecticut and Rhode Island, six of the United States of America, shall, after fumigation, be subject to inspection as provided by section 6 of these regulations.'

Vide *Canada Gazette*, vol. xliv, p. 310.

By order in council of November 12, 1910, in virtue of the provisions of section 20, chapter 21, 6-7 Edward VII, intituled 'An Act respecting the inspection of Meat and Canned Foods,' the regulations established by order in council of August 1, 1910, were amended by adding after the word 'cellulosae' in the 24th line of the printed copy of said regulations, the following words:—

'Except when the infestation is slight, in which case a carcase may be rejected and rendered into lard or tallow.'

Vide *Canada Gazette*, vol. xliv, p. 1527.

By order in council of February 27, 1911, in virtue of the provisions of section 3, chapter 31, 9-10 Edward VII, intituled 'An Act to prevent the introduction or spreading of insects, pests or diseases destructive to vegetation,' the regulations established by order in council of May 11, 1910, and amendments thereto, were rescinded and new regulations substituted therefore. (See Appendix No. 19.)

Vide *Canada Gazette*, vol. xliv, p. 2945.

I have to report with regret the retirement on the 31st instant of a valued officer of the department, William Saunders, C.M.G., LL.D., F.R.S.C., who has held the position of Director of the Experimental Farms since their establishment on October 12, 1888.

Doctor Saunders has performed the duties of his office faithfully and zealously and has rendered most distinguished service in the development of agriculture that has taken place in the Dominion during the past quarter of a century.

The department has been fortunate in securing the services of Mr. J. H. Grisdale, B. Agr., Dominion Agriculturist, who will succeed Doctor Saunders as Director of the Experimental Farms.

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Canada's Exhibit at the International Exposition held in Brussels, Belgium, which opened on April 23, 1910, and closed on the 3rd of November, obtained a great success, the display of natural products and resources attracting much attention, being most creditable.

The Report of the Exhibition Commissioner on this Exposition will be found as an appendix hereto. (See Appendix No. 16.)

At the close of the International Exposition at Brussels, preparation began at once for Canada's participation in 'The Festival of Empire and Imperial Exhibition' to be held at the Crystal Palace, May to October, 1911.

I am able to again report most encouraging results in the Tobacco industry.

Appended hereto is the report of the Tobacco Expert, Mr. F. Charlan, on his work during the past season. (See Appendix No. 17.)

## II.—ARTS AND AGRICULTURE.

### THE DAIRY AND COLD STORAGE BRANCH.

The services relating to dairying, fruit, extension of markets and cold storage are grouped together to form the dairy and cold storage branch. At the head of this branch is the Dairy and Cold Storage Commissioner, who is assisted by experts for each of the divisions mentioned.

#### THE DAIRYING SEASON OF 1910.

The season of 1910 was, on the whole, a favourable one for dairying and there was a decided increase in production. A noticeable feature of the season was the large number of silos erected, and the increased acreage of corn grown for silage. Milch cows are reported to have wintered well. It is gratifying to find that a marked increase in the average yield of milk per cow is reported from many sections. This increase is accredited partly to the selection and weeding following cow testing and partly to better methods of and more generous feeding.

#### DAIRYING EXPERIMENTS.

An investigation was begun during the year which had for its object an improvement in the quality of the cream supplied to cream gathering creameries. This has opened a large field for experiment and the work will be continued during the season of 1911.

#### COW TESTING ASSOCIATIONS.

The cow testing propaganda has been continued and extended during the year. There is a large increase in the number of cows being tested, and the interest in this work is spreading rapidly.



## DAIRY RECORD CENTRES.

I have approved of a plan in connection with the cow testing movement which will enable those of my officers in charge of this work to organize several dairy record centres. These centres will cover limited areas with a radius of 6 to 10 miles, and the expert in charge will spend his whole time among the farmers in that territory. He will be required to take a complete census of every herd, and to encourage as many as possible of the owners to have their herds tested. I propose that this work shall be continued in each locality for several years.

## CONVICTIONS FOR VIOLATION OF THE DOMINION DAIRY LAWS.

The laws relating to the manufacture and sale of dairy products in Canada are, on the whole, well observed. Two persons were convicted during the year for manufacturing and three for selling butter containing more than the legal limit of 16 per cent of water. There were also two convictions, with heavy fines, for 'stuffing' cheese with old curd during the process of manufacture.

## EXTENSION OF MARKETS.

The work of this division was fully explained in my report for 1910. It covers, briefly, the inspection of the refrigerator car services, the cargo inspection at Canadian and British ports, and any other work having for its object an extension of, or improvement in, the trade in Canadian food products.

## TRIAL SHIPMENTS OF PEACHES.

I authorized the Dairy and Cold Storage Commissioner to arrange for some trial shipments of peaches to Great Britain during the past season. Special packages were provided and arrangements were made with the growers near St. Catharines to supply the peaches on a guarantee equal to the regular local price. The peaches were packed under the supervision of the chief of the markets division. The shipments covered a period of three weeks, and 1,284 cases were distributed among London, Liverpool, Glasgow, Manchester, Leeds, Birmingham, Cardiff and Bristol.

The peaches were landed in good condition and sold at prices which gave the growers fully three times as much as they were guaranteed or could have obtained at home. That was their reward for extra care and special packing. The shipments cost the department nothing, as all expenses were deducted from the gross receipts.

Full particulars of these trial shipments will be found in Bulletin No. 27 of the dairy and cold storage series.

## FRUIT INSPECTION.

Except in British Columbia, the apple crop was the lightest one there has been for many years. As the number of packages actually inspected was nearly as large as in 1909, it follows that a much larger percentage of the total packages was examined during the past year.



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## SOME TRIAL SHIPMENTS OF COLD STORAGE APPLES.

In the fall of 1909, I authorized the Dairy and Cold Storage Commissioner to purchase seven carloads of apples for the purpose of demonstrating the advantages of cold storage for long keeping.

These apples were finally disposed of during the period under review. Some very definite and useful information has been made available to fruit growers and dealers in Bulletin No. 24, entitled, 'Report on Some Trial Shipments of Cold Storage Apples.'

## APPLES FOR INTERNATIONAL EXHIBITIONS.

The Dairy and Cold Storage Commissioner arranged for a consignment of Fameuse and McIntosh Red apples to the Brussels Exhibition.

One hundred and fifty boxes were secured in eastern Ontario and Quebec, and they were shipped on October 8 last. These apples were selected and packed by members of the staff. My Exhibition Commissioner reported that they were the finest dessert apples, quality and condition considered, ever seen in Brussels.

The Dairy and Cold Storage Commissioner was also requested to procure a collection of apples for the Festival of Empire Exhibition, which is to be held at the Crystal Palace, London, during the coming summer, and I am informed that twelve hundred boxes of the very choicest specimens of suitable varieties have been secured and specially packed for this purpose. The selecting and packing of these apples was done by members of the staff who have had special experience in this kind of work.

## THE NATIONAL APPLE SHOW AT VANCOUVER.

The first Canadian National Apple Show was held at Vancouver on October 25 to November 1, 1910. This was a very notable event in the apple world. It was the largest and finest collection of apples ever brought together. An educational display consisting of sample boxes of certain varieties of apples from the different fruit-growing districts of Canada was made at this exhibition.

## ICED CAR SERVICES.

The usual iced car services for the carriage of fruit intended for export in cold storage, for cheese in carloads, and for butter in any quantity, were arranged for with the railway companies and supervised throughout the season.

## RESERVED CHAMBERS ON STEAMSHIPS.

In order to make sure that shippers of tender fruit would again be able to secure suitable cold storage space, the department guaranteed the earnings on one small chamber on eleven steamers sailing from Montreal to London, Liverpool, Glasgow and Bristol, between September 8 to October 1. These chambers were used for the shipment of peaches and other tender fruits, as well as early apples. There was a very large increase in the total quantity of tender fruit exported in 1910, and a much larger percentage of all fruit was carried in cold storage than in any previous season.

## THERMOGRAPHS.

The use of thermographs on steamships has been continued. One or more is placed in every steamship sailing from Montreal with perishable produce. They have also been used in the Halifax-London service, in the South African service, and in the Vancouver-Australian service.

## COLD STORAGE SUBSIDIES.

Contracts have been entered into during the year for the payment of subsidies on cold storage warehouses, as follows:—

The St. Lawrence Produce Co., Brockville, Ont.  
Flavelles Limited, Lindsay, Ont.  
Gunns Limited, Harriston, Ont.  
The Acadia Cold Storage Co., Halifax, N.S.

Several other applications for the subsidy are now under consideration.

## CORRESPONDENCE.

Over 13,000 letters, not including requests for publications, were dealt with in the office of this branch during the year. A large proportion of these are inquiries on technical subjects relating to dairying, cold storage and fruit, and a great deal of information is disseminated through this channel.

## PUBLICATION.

The following publications have been added to the Dairy and Cold Storage Series during the year:—

## Bulletins—

- No. 23. 'Cold Storage and the Cold Storage Act.'
- No. 24. 'Report on Some Trial Shipments of Cold Storage Apples.'
- No. 25. 'Coulommier Cheese.'
- No. 26. 'Dairy Legislation.'
- No. 27. 'Trial Shipments of Peaches.'

## Circulars—

- No. 2. 'The Milk Test Act.'
- No. 3. 'The Outlook for Canadian Tomatoes in the British Market.'
- The Annual Report of the Dairy and Cold Storage Commissioner for the year ending March 31, 1910.

## MEETINGS.

The permanent fruit inspectors and officers connected with the Dairy Division have attended and addressed about 250 meetings during the year.

## ANNUAL REPORT.

A detailed report of the work of the Dairy and Cold Storage Branch is being prepared as an appendix to this report, and will be published in a separate volume.

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## SEED COMMISSIONER'S BRANCH.

The cereal grain and fodder crops of 1910 furnished an abundant supply of good seed. More than ever before, our farmers now save a portion of the best and cleanest of their grain crops for seed. This is a good practice, recommended for many years by officers of my department, and our farmers already realize much benefit from it in larger yields of better quality grain.

The supply of grass seeds is not as plentiful as in some years, but it is believed to be sufficient and of good average quality. The clover seed crop of last season was abundant and above the average in cleanliness. The province of Ontario produces large quantities of clover seed, more than half of which in the average year is exported. To further improve the quality of the clover and other fodder plant seed, special attention was devoted last season to inspecting the crops in the principal clover seed producing districts. The purpose of the inspection was largely educational. The experts employed were able to go into the fields with the farmers and give them much valuable information about weeds and the best methods of suppressing them. In all, eighteen hundred and ninety-nine farms and upwards of twenty-five thousand acres of clover seed crops were inspected in twenty-six counties.

The field root and garden seeds used in Canada are mostly imported. The production and selection of these seeds is a highly specialized branch of farming and gardening with which comparatively few of our farmers and gardeners are acquainted. It is commonly stated that on account of the cost of labour, these seeds cannot be profitably grown in Canada in quantity for commerce. Some experiments with home-grown vegetable seeds, however, seem to indicate that acclimatized seeds produce a more satisfactory crop than imported stock; and, with the object of gaining further information, my department arranged for a series of experiments to determine what kinds of these seeds may be successfully grown under our soil and climatic conditions. These experiments, which have now been conducted for three years, have demonstrated that practically all of our field root and garden seeds may be profitably grown in the province of Ontario at least; and several individuals and companies have taken up the production and selection of these seeds on more extensive areas than have heretofore been employed for that purpose.

## SEED FAIRS.

The seed fairs, which were first organized by this branch of my department in 1902, have largely increased in number and in usefulness to the farmers. They are local in character, and serve as a special market day when the farmers meet, at an opportune time in the spring, for the sale and exchange of seed grain and other seeds. Competent judges and lecturers are provided, free of cost to the agricultural society under the auspices of which the fair is held. More than five hundred thousand bushels of high-class seed wheat, oats and barley were offered for sale at the seed fairs in the provinces of Alberta and Saskatchewan alone. Six years ago fifteen seed fairs were conducted in all parts of Canada. Last year my department gave

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assistance, in organizing and conducting, to fifty-two seed fairs, not including those now held in some of the provinces under the immediate supervision of the Provincial Departments of Agriculture. In this work my officers have aimed to assist and co-operate with the Provincial Departments of Agriculture in getting the seed fairs established, and I have been pleased to continue such assistance until the province has been able to take over the work.

## PROVINCIAL SEED EXHIBITIONS.

Exhibitions of seed grain, distinctly provincial in scope and character, are now held in every province except British Columbia. The seed shown at these exhibitions consists principally of prize-winning exhibits from local seed fairs. Material assistance has been given in organizing and conducting these seed exhibitions and by direct money grants on the basis of one-half the money paid out in prizes, which grants are made on application from the Provincial Department of Agriculture.

## FIELD CROP COMPETITIONS.

Competitions in fields of standing grain, judged directly before harvest, from the standpoint of suitability for seed, have continued in popularity and greatly increased in numbers, especially in the eastern provinces. The agricultural societies conducting them have received assistance on a plan similar to that for the seed fairs. In the prairie provinces each farmer competing must have at least a ten-acre field of grain for exhibit. In the eastern provinces smaller areas are required. The judging is done by experts supplied by the Seed Branch; in awarding the prizes, they make use of scorecards in estimating the relative value for seed of the different fields. Last year my department gave assistance to four of these competitions in Prince Edward Island, five in Nova Scotia, four in New Brunswick, forty-five in Quebec, forty in Saskatchewan and twelve in Alberta, making a total of one hundred and ten. These competitions were held for the first time in 1906, when the total number was forty. Since 1908 the provinces of Ontario and Manitoba have not required the assistance of this department for similar competitions which were originally organized in those provinces by the Seed Branch.

## CANADIAN SEED GROWERS' ASSOCIATION.

The Canadian Seed Growers' Association has continued to do effective educational work in encouraging the growing and selecting of pure stocks of seed grain and other seeds, and I have been pleased to continue to support it with an annual grant. The quantity of selected registered seed produced by its members, of which there are more than four hundred, is not sufficient to meet the demand. The seed crops which are registered in the records of the association are each year inspected by the permanent and temporary officers of my department. The members of the association usually obtain their foundation stock from our Experimental Farms. In the general scheme of crop improvement, it is hoped that they will take the new sorts, bred and selected at our experiment stations, and will increase the supply of



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seed while retaining its purity and productiveness. The seed thus produced and registered is much in demand by farmers who exhibit fields of grain in the field crop competitions, or threshed and cleaned seed at the seed fairs and provincial seed exhibitions. In addition to their educational influence, these fairs and exhibitions serve as an excellent distributing medium. A considerable proportion of the cereal grain crop now grown in all of the provinces is traceable through these organizations back to the four hundred members of the Canadian Seed Growers' Association, and ultimately to the experiment stations.

## SEED CONTROL ACT.

In the material improvement made in the quality of the seed grown and generally used in all of the provinces, the educational work has been of the greatest importance. The Seed Control Act, however, was needed, and has been effective in supplementing that educational work. Prior to the enactment of this law, it was not uncommon to find grass and clover seeds foul with noxious weed seeds exposed for sale by retail vendors; samples often contained as many as forty thousand weed seeds per pound. My officers have endeavoured to secure the observance of the Act by moral suasion, and, with some few exceptions, they have succeeded. I regret that in a few cases each year (as many as forty-three last year) it was found necessary to secure the condemnation of the court on the acts of careless or indifferent seed vendors.

I recently introduced into parliament a bill to amend the Act, with a view to strengthening it in some particulars. The old Act fixes a standard of quality for certain grass and clover seeds that may be marked No. 1, and a minimum standard below which they are forbidden to be sold except for the purpose of being recleaned. The proposed amendments provide for the uniform grading and branding of timothy, red clover, alfalfa and alsike seed, according to fixed standards of quality to be known as Extra No. 1, No. 1, No. 2 and No. 3. I am pleased to say that the principle embodied in the amendments has been approved by both farmers and seed merchants. I am confident that if and when these new provisions become law they will add to the efficiency of the Act as an instrument for the improvement of agricultural conditions.

## SEED TESTING FOR FARMERS AND SEED MERCHANTS.

The administration of the Act respecting the inspection and sale of seeds makes necessary the maintenance of an efficient service for testing seeds for purity and vitality. The seed laboratories which have been established at Ottawa and Calgary have been able to meet all demands made upon them by farmers and seed merchants, who have their seeds tested and reported upon free of charge. During the twelve months, six thousand four hundred and seventy-six samples have been received and tested for purity or vitality, or both, and reported upon. It is necessary to maintain a large staff for this work because prompt service is essential. Most of these seeds are sent in for test during the late winter and early spring months. For the balance of the year it has been convenient to conduct investigations into the condi-



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tions of the supply of farm and garden seeds. This work has been carried on for a period of years to ascertain the extent to which low-vitality field root and garden vegetable seeds are distributed and exposed for sale. During the past year seven hundred samples were collected by official seed inspectors and tested during the early summer months at the seed laboratory. The condition of the seed, as in past years, was reported to the merchant who had exposed it for sale. When it was found to be of low vitality, both the wholesale and retail merchants were warned that in future the sale of any low-vitality seed by them would be considered a serious offence, punishable under the Seed Control Act as amended in respect to the vitality of seeds a year ago.

#### WEED SEEDS IN FEEDING STUFFS.

Numerous complaints have been made during recent years regarding the occurrence of noxious weed seeds in ground feeding stuffs, and requests have been received by farmers and agricultural organizations for legislation to suppress this evil. I therefore instructed my Seed Commissioner to continue the investigation into the condition of ground feeding stuffs distributed for sale to farmers, and, by collecting and examining samples and by inquiry, to ascertain what practical means, if any, may be adopted to prevent the distribution of vital weed seeds in ground mill feeds. The investigation has shown that, as in previous years, bran manufactured by the larger flour mills is comparatively free from weed seeds; but the forty-eight samples of bran collected had an average of two hundred and forty-six weed seeds per pound. Crushed or ground meals were often found to be in a worse condition, sometimes containing more than eighteen hundred weed seeds per pound. The impression seemed to be quite general that these feed stuffs originated from the large cleaning plants connected with the terminal elevators at Fort William and Port Arthur. The investigations, however, proved that a very small proportion of the screenings from the cereal grains produced in the prairie provinces, which are cleaned out of the grain at the terminal elevators, is distributed in Canada. It was found that the difficulty in most cases emanated from the careless practices of the smaller flour mills and places where ground feeding stuffs are manufactured locally. As a means to suppress this evil, I recommended to my colleague, the Minister of Inland Revenue, that the grain products standards, which are fixed under the General Inspections Act of the Inland Revenue Department, be amended by requiring that bran, shorts and ground feeding stuffs shall be free from the vital seeds of noxious weeds.

#### PUBLICATIONS.

The French edition of the book, 'Farm Weeds,' has been completed, and is held for distribution by the King's Printer. Copies of the first edition of this book were distributed free to public institutions, including rural schools in which libraries had been established. The revised edition now available contains one hundred and eighty pages of text and seventy-six full page coloured plates of weed seeds. Three thousand French copies of this revised edition are now available.

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Other publications which have been issued this year from this branch include, 'A Summary of the Particulars Regarding Prize-winning and Commendable Seed Exhibits in Alberta,' and a catalogue of the seeds held for exchange as botanical specimens. It is necessary, in maintaining a seed laboratory, to compile large standard reference collections. The collection in the Ottawa seed laboratory now contains nearly two thousand specimens, obtained by collecting native species of seeds and exchanging specimens of them with other seed control stations for new sorts. A second revised edition of Bulletin No. S-1, containing a reprint of the Seed Control Act, has been published in both the English and French languages. 'Summary of Results of Competitions in Standing Fields of Seed grain in Saskatchewan and Alberta' has been published and distributed in those provinces, and 'Summary of the Results of the Competitions in Standing Fields of Seed Grain in Quebec, New Brunswick, Nova Scotia and Prince Edward Island' has been published in both English and French and distributed in Quebec and the maritime provinces.

## LIVE STOCK BRANCH.

Following the intimation which was made last year in my annual report of the interest which was being taken in the development of the sheep industry in the Dominion, I have supplemented the previous efforts which have been made in this direction by the appointment of two thoroughly well qualified men to undertake a special investigation of the conditions attending the raising of sheep and the production and marketing of wool in the United Kingdom, Canada and the United States. This inquiry has been instituted in order to ascertain, if possible, the reason for the decline of interest amongst the farmers of this country in the raising of sheep and to secure such information as would enable me to intelligently frame and adopt such a policy as would be most likely to operate toward the encouragement and development of sheep breeding as a business in this country. The gentlemen comprising this commission, Mr. W. A. Dryden of Brooklin, Ontario, and Mr. W. T. Ritch of Montreal, Quebec, visited Great Britain in the months of August, September and October last, and have already made a tentative report of their studies while there. This report includes much valuable data and suggests most effectively the very important part which the breeding and keeping of sheep has played in British agriculture. Since, however, a full discussion of this feature of their inquiry is to be included in the final report of their full investigation and published in that form, no further remarks respecting its contents will be offered at this time.

Since their return from Great Britain, the commissioners have paid a careful visit to every province in Canada, and, through the medium of well advertised meetings amongst the sheep men and by personal contact with well-informed farmers and others in various sections of the country, have been able to gather some very practical and useful information. They are now engaged in making a study of the conditions obtaining in certain of the more important sheep states of the Union, particularly in those in which the methods employed are similar to those practised under like circumstances in the Dominion. It is expected that the investigation will be completed and

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the final report submitted in time to enable me, during the coming fall, to enter upon the proposed campaign to be undertaken in the interests of the sheep industry.

Substantial progress has been made in connection with the official testing of pure bred dairy cows. During the year, 145 have qualified for registration and 586 new applications have been received. Ontario and Quebec lead by a wide margin in the numbers of cows entered in the tests, but the farmers of both the eastern and western provinces are now interesting themselves in the work to a greater degree than formerly. I am pleased to be able to state that the value of the yearly tests, as conducted by my department, is receiving very general recognition at the present time. The demand for breeding stock out of Record of Performance ancestors is increasing rapidly, not only amongst the owners of pure bred cattle but as well amongst farmers possessing grade dairy herds. The use of pure bred sires from high testing dams amongst the common cattle on the ordinary farm is a practice which, in dairy districts, is urgently needed, and, when more widely adopted, will make for the lasting improvement of our great dairy industry.

Co-operation with the various provincial departments in supplying judges and lecturers for a number of their fairs and institutes has been continued as in the past. The reciprocity of thought and of service which has been effected through the institution of this policy has been of immense benefit to the newer and to widely separated portions of the country and has enabled them to make such progress as would otherwise have been impossible.

Some direct assistance in the form of money grants has been given to various organizations, including amongst others the Maritime Winter Fair, the Dominion Exhibition at St. John, the Live Stock Breeders' Association in the province of Quebec, the Manitoba Winter Fair, the Saskatchewan Winter Fair and Annual Cattle Sale and the Alberta Winter Fair. Except in the case of the Dominion Exhibition, these grants have not been large but they have enabled the several organizations to carry on without embarrassment the efficient and important work which they had undertaken.

The National Live Stock Records has also received a substantial grant, and, in accordance with the provisions of the Pedigree Act, all the pedigrees which have been issued have been referred to an officer of my department whose duty it has been to affix the official seal and attach his signature to the documents as an evidence that they have been read and found correct in the light of the applications received. In view of the policies which are being adopted in other countries and particularly in the United States in connection with the organization of their record associations, it is now quite evident that the nationalization of the Canadian Live Stock Records was a most fortunate and timely movement in the interests of the breeders of pure bred live stock in this country.

An important new bulletin entitled 'Beef Raising in Canada' has been issued during the past year and has already been widely distributed. It has been received with much favour by those engaged in the beef industry, and, since it contains the latest available data regarding the production of beef as applicable to different sections of the Dominion, it should prove of value to all interested in this subject.

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## EXPERIMENTAL FARMS AND STATIONS.

The scope of the work being undertaken by these useful institutions is constantly undergoing enlargement. New experimental stations are being established in different parts of the Dominion, and practical information is given to farmers both by correspondence with these stations and by the distribution of annual reports and bulletins. Grateful letters of thanks have been received from many of those who have applied for information, acknowledging the benefits which the sending of these timely publications has conferred on them.

The yearly reports of the superintendents, particulars of which are given in the annual reports, show how the various crops have been cultivated, and these records have been a help and inspiration to many readers.

Unabated interest is felt by the farmers of Canada in the annual distribution of seed grain for the improvement of crops, and full advantage is being taken of the offers of samples for trial, the applications being very numerous and gratefully appreciated. This was especially the case in the newer settled districts of the Northwest, whose future success is largely dependent on the farmer making a good beginning. The applications received from the more settled portions of Saskatchewan and Alberta have been largely in excess of previous years.

At the Central Experimental Farm the trial plots of grain have given good returns. Spring wheat gave an average of 28 bushels per acre, the new variety, Marquis, having ripened from seven to ten days earlier than Red Fife. Of twenty varieties of oats tested, the average yield was 57 bushels per acre. The varieties of six-rowed barley under test averaged 52 bushels, and those of two-rowed, 42 bushels per acre. Turnips gave an average of 30 tons per acre, and mangels averaged 24 tons.

## EXPERIMENTAL FARM, NAPPAN, N.S.

Continued wet weather in the spring delayed seeding in Nova Scotia until very late, the first seeding being done May 11. The unusual wet weather in early spring resulted in a heavy crop of hay, while the dry weather which prevailed in August and September produced great growth in the grain crops and matured them quickly. The average yield of seven varieties of wheat under trial was over 45 bushels per acre. Oats averaged 82 bushels, six-rowed barley, 51 bushels, and two-rowed barley about 28 bushels.

Indian corn cut green for ensilage gave an average of 14 tons per acre, while turnips gave an average of 26 tons per acre, and mangels 30 tons. Potatoes averaged 326 bushels per acre.

## EXPERIMENTAL STATION, CHARLOTTETOWN, P.E.I.

The spring of 1910 was cold and dry in Prince Edward Island. June, July and August were fine growing months, while September had much exceptionally fine harvest weather. The hay crop was fully one-third larger than usual, while grain was



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much above the average in yield. The trial plots on this new Farm, which is situated within a mile of Charlottetown, have given unusual yields. Spring wheat has averaged over 39 bushels per acre, oats 121 bushels, six-rowed barley 65 bushels and two-rowed barley 62 bushels per acre. Peas gave an average of 37 bushels and Indian corn grown green for ensilage, 22 tons per acre. The plots of turnips averaged 26 tons, those of mangels 29 tons, while potatoes averaged 229 bushels per acre.

## EXPERIMENTAL FARM, BRANDON, MAN.

In 1910 the spring at Brandon opened up early, but the first part of the season was unusually cold, with occasional high winds. In June, under the influence of great heat, the grain made rapid growth and ripened very fast. Harvest began on July 27, the first wheat to ripen being the Marquis, which was cut on July 27. This early variety of spring wheat, which has now been under trial at Brandon for three years, has given an average yield of 45 bushels per acre for that period, as compared with 44 bushels for Preston and nearly 41 bushels for Red Fife. The average yield of the different varieties of oats under trial has been 83 bushels per acre. Six-rowed barley has given 43 bushels, while the two-rowed varieties gave an average of 52 bushels. Indian corn gave an average weight of 12 tons of fodder per acre, cut green, while the crop of turnips averaged 17 tons, and that of mangels nearly 16 tons, per acre. Potatoes gave an average of 329 bushels.

## EXPERIMENTAL FARM, INDIAN HEAD, SASK.

The spring of 1910 was one of the earliest in the history of the Farm. Seeding began on April 15, and was completed before the close of the month. The weather was unfavourable in May. High winds prevailed, while heavy frosts at night repeatedly cut down the growth as it appeared above ground. June and July were dry, and the conditions were favourable to the crops, which were good, both in yield and quality, and all the grain was secured in good condition before frost occurred. Harvesting began on August 6, and was finished on the 23rd.

Spring wheat in plots gave an average yield of 50 bushels per acre. In field crops, Marquis has given a very high average. A field of five acres gave a yield of 53 bushels per acre, and another field of six and one-half acres gave 44½ bushels per acre. These were the heaviest yields of wheat this year in field crops on the Indian Head Experimental Farm.

Marquis has now been tested at Indian Head for four years, and during that period has yielded an average of about 41 bushels per acre, as compared with 40 bushels for Huron and 29 bushels for Red Fife.

Sixteen varieties of oats were sown on fallowed land, and produced an average crop of 77 bushels per acre. Twelve varieties of six-rowed barley produced an average of 62 bushels per acre, and nine varieties of two-rowed barley have given an average of 59 bushels per acre. Peas have given an average crop of 33 bushels per acre.

Indian corn cut green for ensilage has done very well at Indian Head, having produced an average of over 24 tons of green fodder per acre. Both turnips and



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mangels have each produced over 27 tons per acre, while potatoes have given the extraordinary average crop of 519 bushels per acre.

## EXPERIMENTAL STATION, ROSTHERN, SASK.

The season of 1910 opened earlier than usual in the Rosthern district, and seeding was quite general by the middle of April. High winds prevailed during the early part of the season, which considerably injured the growth. As the grain was somewhat weakened and weedy, the superintendent thought it necessary to plough up the plots of peas, oats and barley, hence no records of these crops are available. The plots of wheat were preserved, and gave an average yield of over 27 bushels per acre.

The yields of field roots were as follows: Turnips, 18 tons; mangels,  $5\frac{1}{2}$  tons; and carrots,  $3\frac{1}{4}$  tons per acre. Five varieties of potatoes gave an average yield of over 331 bushels per acre.

## EXPERIMENTAL STATION, LETHBRIDGE, ALTA.

At the Experimental Station at Lethbridge experiments are carried on with two series of trial plots, one on non-irrigated and one on irrigated land. On the non-irrigated series there was very little crop on account of a severe and protracted drought. During the autumn of 1909 there were no rains worth mentioning, and during the winter there was practically no snow. From March to July, inclusive, the total precipitation was 1.86 inches. On the non-irrigated portion no crops except those grown on summer-fallowed land developed sufficiently to allow of harvesting.

The different varieties of winter wheat, nine in all, gave an average yield of 11 bushels 3 lbs. per acre. The twelve varieties of spring wheat gave an average of 11 bushels. Sixteen varieties of oats on non-irrigated land gave an average return of 21 bushels 13 lbs. per acre. Ten varieties of six-rowed barley produced 9 bushels 12 lbs. per acre, and nine varieties of two-rowed, 10 bushels 13 lbs. per acre. Four varieties of peas produced an average yield of 11 bushels 37 lbs. per acre. Of turnips, the crop was 1,330 lbs. per acre, of mangels, 8 tons 1,530 lbs. per acre, and of sugar beets, 6 tons 270 lbs. per acre. Fifteen varieties of potatoes averaged 105 bushels 44 lbs. per acre.

On the irrigated land the spring wheat yielded an average of 25 bushels 52 lbs. per acre, oats 71 bushels 10 lbs., barley six-rowed 33 bushels 26 lbs., and two-rowed barley at the rate of 48 bushels 26 lbs. per acre. Peas gave an average of 33 bushels 21 lbs. per acre.

The average yield of the turnips in 1910 was 5 tons 867 lbs. per acre, mangels, 20 tons 1,848 lbs. per acre, and of sugar beets the average production was 14 tons 710 lbs. Potatoes on irrigated land gave the extraordinary yield of 507 bushels per acre.

## EXPERIMENTAL STATION, LACOMBE, ALTA.

The rainfall at the Experimental Station at Lacombe for the growing season of 1910 was only 8.34 inches. Notwithstanding this limited precipitation, grain crops on well-prepared land have been good, especially of carefully handled breaking of 1909 and summer-fallow of that year.

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The ten varieties of spring wheat tested showed the extraordinary average yield of 62 bushels 7 lbs. per acre, and seventeen varieties of oats yielded an average crop of 74 bushels 24 lbs. per acre. Ten varieties of six-rowed barley gave 69 bushels 34 lbs., and nine varieties of two-rowed barley an average crop of 60 bushels 18 lbs. Peas yielded 32 bushels 52 lbs. per acre.

Indian corn gave of green fodder an average of 17 tons per acre, turnips about 23 tons, and mangels nearly 11 tons per acre. The average yield of twenty-one varieties of potatoes was 415 bushels per acre.

#### EXPERIMENTAL FARM, AGASSIZ, B.C.

In 1910 the spring weather was cool and dry at Agassiz, and although germination was a little slow the season on the whole was favourable.

Nine varieties of spring wheat gave an average of 26 bushels 51 lbs. per acre, and seventeen varieties of oats gave 72 bushels 23 lbs. Ten varieties of six-rowed barley, 39 bushels 2 lbs., and nine varieties of two-rowed barley, 43 bushels 14 lbs. Peas gave an average crop of 32 bushels 41 lbs. per acre.

Indian corn cut green for fodder gave 19 tons 148 lbs. per acre. Turnips, 26 tons, and mangels, 21 tons per acre. Sugar beets gave 15 tons, and potatoes an average of 295 bushels per acre.

### AGRICULTURAL AND LIVE STOCK DIVISIONS.

The study of the influence of crop rotation on the cost of crop production is being continued. A comparison of the results as tabulated for the various rotations under trial during the past twelve years seems to indicate the short rotation as the profitable rotation for the stock man, and the right rotation to conserve and to build up soil fertility.

Studies are being made of many matters of comparatively minor importance in field agriculture, as for instance, influence of time and depth of ploughing, best methods of applying barnyard manure, comparative value of various implements in more or less common use in soil cultivation and, probably most important of all less important work (less important in comparison with rotation work), is the study of the influence of size and character of cultural implements on cost of crop production. Results as so far observed point to the advisability of the farmer increasing the motive power, increasing the size of his farming implements from the plough to the harvester, and so decreasing relatively the cost of the guiding intelligence.

#### LIVE STOCK.

*Horses* are at present kept for working purposes only, no attempt being made to breed.

*Beef cattle* are being kept in small numbers. Some work is being carried on to gain information as to the possibility of profitably combining beef production and dairying in the same herd.

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*Dairy cattle* are kept in considerable numbers, and are being experimented with to gain information as to the feeds best suited for milk production, the methods of feeding giving best results for the feed consumed, and the lines of breeding most likely to prove profitable to dairy farmers under varying conditions.

*Steers* are still fed in considerable numbers, although experiments are not being conducted on quite such a large scale as was the case a few years ago. As the breeding herds increase, it has been considered advisable to lessen the work with steers as being less profitable and less useful work than producing breeding stock, and working with dairy cattle in eastern Canada.

*Sheep* are kept to a limited extent only. Shropshires and Leicesters are the two breeds making up the flock. The past year has been very successful, the crop of lambs being very good, and a number of sheep fed experimentally doing well and leaving a good profit.

*Swine* are more than ever a most important class of live stock on the Experimental Farm. Quite large herds of Berkshires, Yorkshires and Tamworths occupy the various buildings devoted to pork production and swine breeding. The past year was eminently satisfactory from both financial and experimental standpoints. A large new piggery built during the year promises to prove a most valuable addition to the equipment for breeding and for feeding operations.

## HORTICULTURAL DIVISION.

The field of work of the Horticultural Division was enlarged this year. The title of the Horticulturist to the Central Experimental Farm was changed to Dominion Horticulturist, the new duties of this officer, in addition to his former work, being to visit the branch Farms from time to time as necessary, and discuss in consultation with the superintendents the experiments being conducted with different kinds of fruits, garden vegetables, and forest and ornamental trees, and flowers. The branch Farms were accordingly visited this year by the Dominion Horticulturist, the plantations carefully gone over, suggestions for experiments made, and notes taken in regard to future work.

The obtaining of horticultural material for the new Farms and additional supplies for the older Farms is now attended to by the Dominion Horticulturist. A uniform system of recording notes of horticultural experiments at the branch Farms is being adopted, which it is hoped will increase the value of the good work already done.

The main lines of work which have been in progress at the Central Experimental Farm were continued this year. These are the testing of varieties of fruits, vegetables, and ornamental plants, and the origination of new fruits and vegetables. A study of the yields of different varieties of fruits, and the yields of individual trees of the same variety; cultural and spraying experiments; correspondence with farmers and fruit growers in many parts of Canada; attending meetings and giving addresses

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in different places. In these and other directions the Horticultural Division did good work during the past year.

One of the most promising lines of work in which the Horticultural Division is engaged is the origination of varieties of apples suitable for different parts of Canada. Over 700 new ones have been originated, of which 142 fruited for the first time this year. The best of these were named, and are being propagated with a view to having them tested in different parts of Canada to find out how they compare in hardiness, yield, appearance and quality with other varieties already on the market. While there are already a large number of varieties of apples sold in Canada, the best of these are limited in their range, as they are not hardy enough. By these new varieties it is expected to widen the range in which good winter apples can be grown, and also to obtain better varieties for other seasons as well.

The improvement of the native plum having offered a good field, experiments have been in progress at the Central Farm for some years. This year trees grown from the earliest variety that was known were planted at Ottawa with a view to obtaining varieties with larger and better fruit. The Americana type is inferior to the Canadian in some respects, it being as a rule much thicker in the skin and the tree breaking down easily under a heavy weight of snow. Native plums bring very good prices, as some of them are very early and can be obtained before the European plums, grown in eastern Canada, are on the market.

The experiments with grapes at the Central Experimental Farm during the past twenty-three years have demonstrated that many varieties can be ripened at Ottawa if the vines are protected with soil each winter. As it was found that by protecting the vines in this way an early variety of the European grape would do well and ripen thoroughly, a number of varieties have been imported from Europe with the object of learning if more sorts can be successfully grown and ripened in the open. These vines made good growth in 1910.

Early strains of corn, tomatoes, peas and beans have been originated in the Horticultural Division in recent years, the object being to obtain the earliest possible strains for the parts of Canada where the season is short, and also for the purpose of demonstrating to farmers and gardeners that it would be to their advantage to save and select their own seed of certain kinds of vegetables. In 1910 a limited amount of seed of these early strains of tomatoes and corn was distributed for test, the results being very gratifying.

Experiments to try the effect of change of seed potatoes were continued in 1910. Potatoes from the Experimental Farm at Indian Head, Sask., were found to yield much more at Ottawa than tubers which had been grown at Ottawa.

The Arboretum and Botanic Garden received the usual attention, and new species and varieties were added to the collection. On January 1, 1910, the Arboretum and Botanic Garden was transferred to the Botanical Division. Henceforth the Dominion Horticulturist will have charge of the ornamental grounds, which have in the past been under the personal charge of the Director.



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Measurements of trees in the forest belts were made in 1910, as in previous years. The details of this work are published from time to time in the annual report of the Experimental Farms.

There is a steady increase in the correspondence of the Horticultural Division, showing a continued and growing interest in this branch of the work. The Dominion Horticulturist has been able to attend a number of important meetings in different parts of Canada during the year and deliver addresses on horticultural subjects.

## CEREAL DIVISION.

The scope of the work in the Cereal Division has been enlarged this year by including in it the annual distribution of seed grain to farmers. The duties of the officer in charge have also been extended to embrace a general inspection of all the work which is being done in the testing of cereals at the branch Farms and Stations. He is expected to consult with the superintendents, and to make from time to time such suggestions in regard to the conduct of the work as may seem desirable. The title of the officer in charge has been changed to Dominion Cerealist on account of this extension of his duties.

## CEREAL CROPS.

Cereal crops throughout Canada were on the whole unusually good last season, and at all the Experimental Farms and Stations except Lethbridge, Alberta, the returns were good. Southern Alberta and parts of Saskatchewan suffered very much from drought, and the crops in some sections of Manitoba also were considerably reduced by dry and unusually hot weather. On the other hand, Lacombe, in central Alberta, had phenomenal yields, and Indian Head, Saskatchewan, produced large crops of grain of excellent quality. In the eastern provinces the season was very favourable, the yields of grain on the Experimental Station at Charlottetown, P.E.I., being particularly large, especially for a newly-established farm. At Ottawa some bad effects were observed from the dry weather in June, but good crops were the rule on all soils naturally retentive of moisture. The yield and quality of most of the early-maturing varieties of spring wheat were quite unusual.

## MARQUIS WHEAT.

It is a source of satisfaction to observe the continued success and the increasing popularity of Marquis wheat, a variety which has now proved itself to be the most important cross-bred cereal yet introduced by the Experimental Farms. In 1909 a remarkable yield of over 52 bushels per acre on a field of four acres was reported from Brandon, Manitoba. The hot, dry weather of last season prevented a repetition of this success at that farm, but a still heavier yield was obtained at Indian Head, where over 53 bushels per acre were harvested on a five-acre field. It is a tribute both to the intelligence and the progressive spirit of western farmers that some thousands of bushels of Marquis wheat have changed hands since the last harvest at



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prices ranging as high as three and four dollars a bushel. The increasing willingness of grain growers in all parts of Canada to pay good prices for seed of unusual merit is one of the most striking signs of progress in agriculture during the past few years.

#### GRAIN DISTRIBUTION.

The annual distribution of small bags of seed grain and potatoes to farmers for the improvement of their crops has been conducted as usual during the past winter, and will be concluded in May. The most important part of this distribution consists in the dissemination of new varieties and improved strains which are not obtainable in commerce. About 25,000 samples have already been sent out since the first of last December, and about 10,000 more will be required to conclude the distribution.

The education of Canadian farmers in regard to the high value of the best seed grain has made them much more critical in their judgment of the material which is sent out to them. It has been found imperative, therefore, to raise the quality of the seed for distribution to the highest practical point. Constant efforts are being made to reach a still higher standard, although some of the difficulties encountered are necessarily very great.

#### NEW VARIETIES OF CEREALS AT OTTAWA.

About 400 new varieties (chiefly cross-bred) of wheat, barley, oats and peas were tested in plots at the Central Farm last season. These sorts, though of cross-bred origin, are now quite mixed in character, and some of them show extraordinary promise. The great majority must, of course, be eliminated by careful comparison and selection, and only a few of the very best can be permanently retained. In determining the value of new varieties of wheat it is found that milling and baking tests are of very great importance in addition to the usual field trials. The results of actual baking experiments have shown clearly that there is no other method by which the value of wheat to the baker can be accurately ascertained. Much may be learned from chemical analysis and from various other methods of examination, but the bread-making qualities of the flour cannot be fully determined except in the bakery.

#### BAKING TESTS.

During the past two years about one hundred and fifty new sorts of spring wheat, originated by the Dominion Cerealists, have been subjected to baking tests by him. Many of these varieties were found to be defective in flour strength and were, therefore, rejected. Quite a large number, however, produced excellent bread, and about a dozen sorts showed such remarkable baking strength that they surpassed Red Fife wheat, which is generally regarded as representing the highest possible standard of excellence. As most of these new varieties are of early-ripening habit, they are of very great interest for the northern parts of the wheat-growing areas of Canada. A few of the best of these sorts will be tested in the west this coming season.

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*Storage of Wheat and Flour.*—The problems connected with the storage of wheat and flour have again occupied the attention of the Dominion Cerealists during the past year. Many additional baking tests have been made, and the deductions drawn from the work of previous years have been confirmed and enlarged. The improvement of flour and wheat (for bread making) continues for some years, under proper conditions of storage; the changes being much more rapid when the material is kept as flour than when kept as wheat. The good effects of the storage are seen during the first few months chiefly in the improved (paler) colour of the flour and its increased power to absorb water in making bread. Later on, there is also a striking improvement in the volume and texture of the loaf produced from the stored material.

*Quality of Western Wheat.*—It is gratifying to observe that the baking tests of wheat grown on the prairies last season have shown that the flour has an unusually high baking strength. This is no doubt due in part to the prevailing character of the summer, which was warm and dry. Such conditions, though they may often reduce the bulk of the crop somewhat, are far more likely to produce wheat of high bread-making strength than the cooler and more moist seasons which sometimes occur.

## FLAX.

A number of pure types of flax have been isolated by the Dominion Cerealists, with a view to finding those which will give the largest yield of seed and those of which the seed possesses the highest oil content. Some attention is also being given to the question of fibre, although this is at present of very much less importance in Canada than the seed. Cross-breeding has also been begun to combine all the best qualities as far as practicable in one variety. In view of the importance of the flax crop, it is believed that valuable results will be obtained from these researches.

## DIVISION OF CHEMISTRY.

As heretofore, this division, in addition to the prosecution of research and the solution of problems affecting the general agriculture of the Dominion, has endeavoured to assist the practical farmer in his everyday work. There are so many matters in connection with the management of soils, the care and use of manures, the choice of a fertilizer, the economic feeding of stock, the preparation of insecticides and fungicides, &c., which call for the aid of chemistry, that a very considerable portion of the Chemist's time is now devoted to the very important work of answering inquiries. Farmers from the Atlantic to the Pacific, we are pleased to say, avail themselves in ever-increasing numbers of this opportunity for obtaining exact information on many subjects of prime importance to them.

In August last, the publication of Bulletin No. 6 (Second Series), 'Western Prairie Soils: their Nature and Composition,' has made available to the public the results of twenty years' laboratory work on the soils of the great plains. The uniformity, the richness in plant food and the favourable physical condition of the soils in general have all been dwelt upon, and a large amount of valuable and important

data to support the belief respecting the great fertility of these soils is now permanently on record. Carefully conducted experiments, however, have shown that exclusive grain growing and fallowing, now so common, must give place to more rational methods of farming if these prairie soils are to be maintained in their present high degree of fertility.

Cultural methods as affecting soil moisture have again been investigated, the work in this connection during the past year being confined to a study of the results of sub-surface packing in southern Alberta. In soil summer-fallowed and packed the previous season and sown to winter wheat the preceding August, the percentages of moisture in the months of May and June were slightly higher than in corresponding but unpacked soil, samples being collected to a depth of 16 inches. As the season advanced no marked differences in moisture content were to be observed between the packed and unpacked areas. From the data of two seasons' work it would appear that the best results from packing are on light loams. It seems very probable that many heavy soils pack themselves sufficiently to re-establish their connection with the subsoil. Further and more extensive work in connection with this problem at various points in the Northwest has been outlined for the coming season.

Inoculation experiments were continued at Ottawa, the plots used in 1909 being continued in order to learn the effect, if any, of the culture on the second year's growth of alfalfa and red clover. The culture employed for inoculation of the seed and soil in 1909 was that known as Hiltner's Nitragin, prepared by Dr. Reiche, Nitragin Company, Milwaukee, Wis. The first season's results indicated that no marked advantage followed inoculation, though the soil had not borne a leguminous crop for a number of years. The data from the crops on these plots for 1910, in like manner, indicated no benefit from the inoculation.

Inoculation has on the whole been found more effective in the Northwest than in other parts of Canada, and particularly has it been successful for alfalfa in Alberta. Surface soil from a field growing the legume has proved very effective, and is to be recommended in preference to 'Cultures' as an inoculation medium.

For a number of years past there has been studied by this division the influence of environment on the composition of wheat, and as a result it has been shown that soil moisture is an important factor in determining the gluten content of the grain. Continuing the experiments at Lethbridge, Alberta, the results of 1910 again show differences between the wheat grown under 'dry-farming' conditions and that under irrigation, the former being the higher in protein. These differences are, however, much less than in 1909, probably due in a large measure to the fact that the irrigated plot did not receive any water until June 22, previous to which (as also subsequently) very dry weather prevailed.

Similar work with barley was begun in 1910, and gave from irrigated land a grain containing much less protein than one grown without the application of water. That a low protein barley, more particularly suitable for malting, might be grown in Alberta under irrigation seems very probable from these initial experiments.

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The influence of age on the quality of wheat and flour has been further studied. In so far as the protein content is concerned, no appreciable change has taken place in the larger number of instances since the previous analysis two years ago. It should, however, be remarked that at that time (January, 1909) the wheat and flour examined had been stored for sixteen months, during which time a very slight increase in the percentage of protein had taken place.

The richness and purity of sugar beets, as grown last season on the various Experimental Farms, have been determined. The results on the whole are very satisfactory, and indicate that beets quite suitable for factory purposes might be grown at widely distant points in the Dominion.

The relative feeding values of the more popular varieties of farm roots—mangels, turnips, carrots and forage beets—have again been ascertained. This investigation has been carried on for a number of years, and the data obtained show that very considerable differences between varieties may exist and, further, that the character of the season has much to do with the storing up of 'dry matter,' and the richness of this dry matter, in sugar. The past season has not been a very favourable one from this standpoint.

In the general analytical work of the laboratories much is done directly for the farming community. However, such demands must relate to purely agricultural matters of wide interest or they cannot be entertained. From this branch of the work valuable information has been furnished respecting our naturally-occurring fertilizers—mucks, muds, marl, sea-weed, gypsum, &c., &c.—newly introduced feeding stuffs, insecticides and many other materials used by farmers.

The examination of waters from farmers' wells is a feature worthy of special mention. Nearly 200 of such samples have been received and analysed at the laboratories of the Experimental Farm this past year. We consider this a work of much practical value, and one that is largely instrumental in improving the water supplies of Canadian farms.

Chemical and microscopical work has been done, as heretofore, on samples forwarded by the Meat Inspection Division, Health of Animals Branch. These samples comprise packing-house products, such as lard, sausages, &c., and various materials used in the packing-house and canning business, such as preservatives, pickling solutions, spices and condiments and colouring matter. The examination in each case is a thorough one. The food products are submitted to a quantitative analysis in addition to an examination for preservatives, &c., while in other cases the extent of the examination is determined by the nature of the material under investigation. In all cases, injurious or poisonous chemicals are carefully looked for.

## DIVISION OF ENTOMOLOGY.

The work of this division, as now organized, comprises: the administration of the 'Destructive Insect and Pest Act,' and of an appropriation for the care of the Indian orchards in British Columbia; the answering of inquiries and the giving of advice concerning insects affecting farm, orchard and garden crops, forest and shade



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trees, live stock, and the public health; the identification of collections of insects for individuals and schools; the carrying on of investigations upon the life-histories of insects, and the study of bionomical problems in relation to the problems of insect control.

In view of the serious menace which existed owing to the presence of the Brown-tail Moth in Nova Scotia, and the discovery of the winter webs of the same insect in shipments of nursery stock from France, it was necessary to take steps to prevent the introduction and further spread of this and such other insects as might be introduced into Canada. Accordingly, the 'Destructive Insect and Pest Act,' an Act to prevent the introduction or spreading of insects, pests and diseases destructive to vegetation, has been passed. In virtue of the provisions of section 3 of this Act, regulations have been passed to govern the importation, fumigation and inspection of trees, shrubs, plants and other vegetation classed as 'nursery stock,' and to provide for the eradication of such insects and pests as are already established in the country. Provision is made for the fumigation of stock from certain countries in the fumigation houses located at the prescribed ports of entry; for the inspection on entry of certain classes of stock from Europe, Japan and the New England States; for the inspection of premises and the treatment of infested trees and other vegetation, and finally, for the payment of compensation where losses are incurred.

In the importation season of 1909-10 over two and a half million trees and plants imported from Europe were inspected in eastern Canada, and 310 nests of the Brown-tail Moth were found. As each of these nests may contain several hundred hibernating caterpillars, the significance of this work will be realized. In addition to these precautions, inspectors of my department worked carefully through those regions of New Brunswick adjoining the State of Maine where the Brown-tail Moth had extended to our borders, in order to discover any infestations. A single egg mass was discovered in August, 1910, and in March, 1911, the first winter nests of the Brown-tail Moth were found in Charlotte county. At the beginning of January a systematic campaign of eradication was commenced in the western part of Nova Scotia, which is infested with the Brown-tail Moth. In this campaign the Provincial Government is co-operating equally with us, and the work is being directed by my Entomologist. The results of this thorough and systematic inspection so far indicate its extreme importance, as heavy infestations have been found in certain sections not inspected last season. The chief danger lies in the possibility of the insect establishing itself in the forests, as it has been found abundantly on the wild apple, thorn and other trees. It is my intention to take every means possible to maintain the control, if not eradicate, this most serious pest, and to prevent a repetition in Canada of the conditions at present experienced in the States, where, in the State of Massachusetts alone over a million dollars are being spent annually on the work against this insect and the Gipsy Moth.

Fruit pests have again been prevalent, and I regret to say that the San José Scale does not appear to be decreasing in Ontario. At the same time there is an increasing tendency on the part of the fruit growers to spray, and it is hoped that the increase in this practice, now essential in the production of good fruit, will



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eventually be a means of permanently reducing the losses sustained by such insects as the Codling Moth, San José and Oyster-shell Scales and Curculio Beetle.

White Grubs and Wireworms have been most frequently reported as injuring field crops throughout Canada. They usually attack crops planted on land recently ploughed and previously under grass. At present, methods of cultivation are the best means of preventing their injuries. The root maggots which attack cabbages, cauliflowers, onions and radishes, &c., are responsible annually for great losses, and the division is giving its attention to methods of prevention with a view to finding the most successful and at the same time most practicable measures. In British Columbia considerable losses have been experienced in the hop-yards, owing to the attacks of the Hop-flea Beetle and the Red Spider. The Red Spider has so reduced the crops in certain districts each year that the area cultivated is gradually being reduced. The Potato Beetle is slowly spreading through the Northwest, and has been reported from as far north as Edmonton.

The division has been studying the attacks of the Spruce Budworm and the Larch Sawfly, and their natural means of control. The former insect is causing no little alarm among the owners of timber limits in the province of Quebec, where it is attacking the balsam and spruce throughout almost the whole province from Lake Temiskaming on the west to the St. Lawrence on the east, and it is distributed sparsely in other parts of the province. It has also been studied in British Columbia, where it is inflicting serious depredations on the Douglas fir. The probable result of its injuries cannot yet be foretold, as the trees, weakened in vitality, may be subsequently attacked by the much more dangerous pests of forest trees—the bark-beetles, whose attacks are fatal. A systematic study of the parasites is being made with a view to discovering the progress of the natural means of control. A study of the Larch Sawfly and its parasites is also being made, and parasites have been reared and liberated from material imported from Europe. In view of the serious losses to our forests incurred by the attacks of forest insects, more attention will be paid to their study, which is essential in order to gain the knowledge of the means of controlling them.

In British Columbia and also in New Brunswick the defoliations of the Tent Caterpillars have been very extensive. The Fall Webworm, the Red-humped Apple-tree Caterpillar, the White-marked Tussock Moth and Canker Worm have been conspicuously abundant in the orchards of eastern Canada, and in certain districts their defoliations have been serious. In certain cities, as Halifax, N.S., and Charlottetown, P.E.I., considerable alarm has been caused by the abundance of the White-marked Tussock Moth, and the defoliation of the shade trees by the caterpillars.

The work which the division has been carrying on for the Department of Indian Affairs in cleansing and caring for the Indian orchards in British Columbia is giving satisfaction to the fruit growers of the province, and a marked improvement in the condition of these orchards and their freedom from insect pests is evident.

In view of the important relation of apiculture to the production of fruit and seed, apart from its inherent value, I am pleased to record the increasing interest

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which is being displayed throughout Canada in this subject, as evinced by the increasing number of inquiries received. We are giving careful attention to the subject, and especially to the question of diseases of bees which is a serious one at present.

From year to year the educational work which is accomplished by means of the entomological collections increases; specimens and collections being submitted for determination from individuals and educational institutions in all parts of Canada. The importance of this branch of the division's activities cannot be overestimated.

The Dominion Entomologist has delivered a considerable number of illustrated lectures and addresses throughout Canada on insects as they affect crops, orchards, forest and public health, and he has investigated the outbreaks of the more seriously injurious insects, such as the Brown-tail Moth, the Spruce Budworm, &c., in the regions where they occur.

#### DIVISION OF BOTANY.

During the year a considerable number of inquiries relating to the treatment of diseases of plants, the identification of useful and noxious plants, and other miscellaneous subjects of botanical nature, were received by the Division of Botany, and every possible assistance was rendered to the correspondents who sought advice in these matters.

#### PREVALENCE OF DISEASES.

Owing to certain unfavourable climatic conditions, the Common Potato Disease was found to be very prevalent during the year. The potatoes were considerably infected; in spite of their inferior quality—owing to the disease—the price was rather high. The presence of this disease, although favoured in its spread by adverse conditions of soil and climate, is a sign of the great indifference still prevailing among many growers of this crop to apply the well-known and effectual sprays at the time when the first signs of the disease become noticeable.

Rather locally a disease of turnips and related plants, known as 'Club Root,' made its appearance, and proved of a destructive nature.

Grain crops were again attacked by the various Smut diseases, and in some districts these diseases involved considerable losses. Loose Smut of wheat, formerly more abundantly found in the eastern provinces, has made slow but prominent progress in the west, and every care was taken to point out the serious nature of this disease to the western farmers. The method of preventing this trouble (hot water treatment), while very effective, involves considerable labour and time, and it is probably on this account not universally practiced. The prevalence of Loose Smut in wheat and in barley becomes more prominent every year. Farmers are under the impression that the treatment of the seed grain with bluestone or formalin is sufficient to prevent Loose Smut, whereas this treatment is really quite ineffective to prevent Loose Smut of these two grains. Special warning was given at farmers'

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meetings held in the western provinces, to recognize the serious nature of this kind of smut which, if treated any longer with indifference, is likely to cause serious trouble in the wheat-growing provinces of the west.

Reference may be made here to an investigation into the nature of a peculiar trouble experienced by a Glasgow (Scotland) brewer with barley obtained from the Canadian Pacific Railway irrigation farm in the west. The raising of a very superior kind of malting barley in Montana on the irrigated lands in that state, exclusively for the European market, resulted in experimenting with this famous barley on lands similar in soil and climatic conditions in this country. A quantity of the progeny of this strain was submitted to a well-known brewing establishment in Scotland for a thorough test along with the original Montana barley. It was in this establishment where the trouble began. The barley did not 'malt,' that is, sprout satisfactorily, but became covered with a slimy bacterial growth that not only interfered with the production of a 'light' malt but rendered the barley practically useless even for 'dark' or kiln-dried malt. The brewer suggested that some organism occurring in the field might have been responsible for this peculiar phenomenon, which, as he stated, had never been met with previously. It was also contended on this account that Canada could not produce a malting barley superior to or at least of the same quality as that raised in Montana. A very careful investigation was immediately started, and a series of experiments were carried out, when it was ascertained that the bacterial organism was perfectly harmless, but liable to develop on any kind of grain that is too slowly malted. The organism is entirely superficial, and may be washed off if the ordinary steeping process is followed by a washing with lime water. On reporting these facts, the brewer stated that while it was his practice to always wash other grain with lime water, this had been omitted in the case of the Canadian sample. Hence I see no reason why the very best of malting barleys could not also be raised in Canada. The barley in question was of exceptionally good quality, plump in grain and sweet in odour.

Late frosts caused great losses to the strawberry crops, and even the milder regions of British Columbia remained not without frost injuries to fruits of all kinds. Occasionally it produced the remarkably conspicuous 'frost belts' on pears and apples, which on that account, though not in the least impaired in quality or taste, had to be sold at low rates.

Of parasitic diseases of fruit trees, several were rather common. Apple Scab, Pear Scab, Leaf Spot, Plum Pockets and Black Knot were reported from many localities. Greatest care has been taken to give the most useful advice concerning the treatment of all kinds of diseases, and if certain diseases are allowed to spread in orchards the fault invariably lies with the owner, who has neglected to apply—or has incorrectly applied—the methods of treatment.

Towards the close of the year a visit was paid to the Niagara district, where a very serious disease of peach trees was investigated. This disease, manifesting itself by from three to fifty and more large cankers on each tree, is of an alarming character. It has been known for four years, but no application has been hitherto made

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for its investigation. An investigation of this or any other trouble if made on observing the first signs, no doubt would have resulted in the prevention of an epidemic, which now threatens the peach-growing districts of Ontario.

#### EXPERIMENTAL ACTIVITY.

The steadily increasing demand for winter-hard varieties of lucern and red clover has been influential in securing a large number of varieties of these seeds from all countries where these useful fodder plants are grown or where they are native. It is hoped by selection and other means to improve the resistance to frost of these plants, and procure varieties which will stand the severe climate of those districts which are specially in need of these fodder plants.

Special instructions have also been given to test the best varieties of broom corn throughout the Dominion, to ascertain whether this plant may not be suited in some districts for the production of the material used in the manufacture of brooms made of the inflorescence of that plant.

Investigation into the unknown cause of several maladies of plants are also carried on in the pathological plant house set aside for this purpose and on the field plots. Owing to the biological questions involved in such investigations, only slow progress can be made.

The Dominion Botanist made during the year an extensive tour through the western provinces, where much valuable information was gathered.

#### POULTRY DIVISION.

Poultry keeping, in recent years, has made rapid and gratifying development, remarkably so in the past three years. Some of these features of development may be noted as follows:—

An increasing demand for strictly new laid eggs during the winter season, and the better quality of poultry at enhanced prices.

A steady increase in the value of the home market, despite greater production and declining exports. The decline in the value of eggs exported during the past three years is shown by the following figures, viz.: 1908, \$301,818; 1909, \$124,315; 1910, \$41,766.

A growing demand for the better quality of eggs and poultry. While the value of the home market has become greater for all poultry products, the preference for the better quality has been marked, even at increased prices. And the neatly put up and inviting packages of eggs and the well-dressed and carefully-picked fowls in almost all cases received the preference.

An interesting phase of poultry development was the formation, during the past year, of co-operative poultry associations, and their offshoots in the shape of circles, which were inaugurated as means of aiding farmers in the better disposal of their



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eggs and poultry. The members of a circle guarantee the freshness of the eggs by stamping the date when laid and the name of the person who sends it on each egg. Poultry is also graded according to quality. It will be interesting to note the progress of these circles, several of which have been formed in different parts of the country.

It is gratifying to note increased interest in poultry keeping throughout the country. Poultry and egg production is essentially the work of farmers, who are, undoubtedly, in the most favourable position to make it, by good management, a paying revenue-producer.

## GENERAL CROPS OF THE DOMINION.

Reports on the condition of crops and live stock have again been collected monthly from agricultural correspondents throughout Canada. Summaries were communicated to the press as soon as ready, and the complete results were published in the Census and Statistics Monthly. Notes on the work of the various branches of my department, crop reports from other countries, prices of agricultural produce in British markets and other information of agricultural interest were also included in this publication.

Statements of the condition of the Canadian crops and estimates of yield were forwarded regularly to the Canadian correspondent of the International Institute of Agriculture for telegraphic transmission to Rome, while notes from the Institute's Bulletin of Agricultural Statistics and other publications were inserted in the Census and Statistics Monthly, with Canadian equivalents of the metric weights and measures.

Outstanding features of the season of 1910 were the uniform excellence of the crops throughout eastern Canada, and the diminution of yield caused by prolonged drouth throughout the southern portions of the Northwest provinces. The result was a lowered average of production for the whole of the Dominion, and a total yield of wheat less than that of the previous year from an area larger by over one and one-half million acres.

The final estimates of the production and value of the field crops of 1910 were issued on December 30, and the following table gives the details of area, yield and value for each crop for the year\*1910, together with the corresponding figures for 1909 and 1908:—



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Crops	Area	Yield per Acre	Total Yield	Weight per mea- sured bushel	Average Price \$	Total Value
	Acres.	Bu.	Bu.	Lb.	Per Bushel.	\$
Wheat.....	1910 9,294,800	16·14	149,989,600	59·91	0·753	112,973,000
	1909 7,750,400	21·51	166,744,000	59·83	0·848	141,320,000
	1908 6,610,800	17·00	112,434,000	59·10	0·811	91,228,000
Oats.....	1910 9,864,100	32·79	323,449,000	36·08	0·354	114,365,000
	1909 9,302,600	38·00	353,466,000	35·65	0·346	122,390,000
	1908 7,941,100	31·64	250,377,000	35·47	0·390	96,489,000
Barley.....	1910 1,834,000	24·62	45,147,600	47·69	0·474	21,400,300
	1909 1,864,900	29·71	55,398,000	47·09	0·459	25,434,000
	1908 1,745,700	26·79	46,762,000	42·02	0·460	21,353,000
Rye.....	1910 84,100	18·35	1,543,500	55·72	0·702	1,083,600
	1909 91,300	18·78	1,715,000	54·53	0·731	1,254,000
	1908 100,350	17·65	1,711,000	55·58	0·740	1,232,000
Peas.....	1910 386,100	16·93	6,538,100	58·73	0·880	5,754,600
	1909 393,300	20·71	8,145,000	60·92	0·887	7,222,000
	1908 412,900	17·09	7,060,000	57·25	0·850	5,970,000
Buckwheat.....	1910 270,608	26·77	7,243,900	47·83	0·563	4,078,000
	1909 282,440	27·64	7,806,000	47·73	0·583	4,554,000
	1908 291,300	24·55	7,153,000	47·49	0·590	4,215,000
Mixed grains.....	1910 575,700	33·76	19,433,600	45·45	0·512	9,953,000
	1909 582,100	33·31	19,391,000	44·59	0·563	10,916,000
	1908 581,900	32·73	19,049,000	45·25	0·530	10,140,000
Flax.....	1910 476,877	7·97	3,802,000	54·96	2·070	7,898,800
	1909 138,471	15·98	2,213,000	55·56	1·248	2,761,000
	1908 139,300	10·76	1,499,000	54·23	0·970	1,457,000
Beans.....	1910 53,034	22·21	1,177,800	59·81	1·780	2,094,200
	1909 55,970	23·67	1,324,600	60·23	1·420	1,881,000
	1908 60,100	27·00	1,245,000	59·18	1·590	1,988,060
Corn for husking.....	1910 328,499	57·00	18,726,000	57·14	0·541	10,135,000
	1909 352,570	54·62	19,258,000	57·80	0·663	12,760,000
	1908 366,200	62·45	22,872,000	59·59	0·520	11,837,000
Potatoes.....	1910 503,262	147·14	74,048,000	—	0·450	33,446,000
	1909 513,508	192·96	99,087,200	—	0·367	36,399,000
	1908 503,600	132·00	73,790,000	—	0·470	34,819,000
Turnips, etc.....	1910 236,622	402·36	95,207,000	—	0·230	21,444,000
	1909 218,047	434·29	107,724,600	—	0·169	18,197,500
	1908 271,443	373·00	101,248,000	—	0·170	17,532,000
		Tons.	Tons.		Per Ton	
Hay.....	1910 8,515,400	1·82	15,497,000	—	9·66	149,716,000
	1909 8,210,300	1·44	11,877,100	—	11·140	132,287,700
	1908 8,210,900	1·39	11,450,000	—	9·960	121,884,000
Fodder corn.....	1910 271,960	9·38	2,531,000	—	4·680	11,957,000
	1909 269,650	10·30	2,779,500	—	5·430	15,115,500
	1908 259,770	11·27	2,928,000	—	4·030	11,782,000

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Data as to the numbers of live stock in Canada were collected from correspondents on June 30, and the following table gives the estimated numbers of horses, cattle, sheep and swine for each of the four years, 1907, 1908, 1909 and 1910:—

Live Stock.	1907	1908	1909	1910
	No.	No.	No.	No.
Horses.....	1,923,090	2,118,165	2,132,489	2,213,199
Milch cows..	2,737,462	2,917,746	2,849,306	2,853,951
Other horned cattle.....	4,394,354	4,629,836	4,384,779	4,260,963
Sheep.....	2,783,219	2,831,404	2,705,390	2,598,470
Swine.....	3,445,282	3,369,858	2,912,509	2,753,964

Estimates of the wages of farm help, of stocks of grain in farmers' hands and of areas ploughed and seeded were also compiled from the returns of correspondents, carefully compared with other available data, and the results published.

In recognition of the valuable services voluntarily rendered by agricultural correspondents in the collection of data for the above reports, I had the pleasure of authorizing arrangements by which a copy of the revised and enlarged edition of the 'Farm Weeds of Canada,' issued by the Seed Branch of my department, was presented gratis to each correspondent. The letters of acknowledgment received from correspondents show that this gift was highly appreciated.

## HEALTH OF ANIMALS BRANCH.

The officers of this branch, which may now be considered fully organized, at least in so far as the work hitherto undertaken is concerned, have been, as usual, very busy during the year just past.

The statistics furnished in the special report of the Veterinary Director General and Live Stock Commissioner indicate that very satisfactory progress has been achieved in securing the control of most of the maladies dealt with under the provisions of the Animal Contagious Diseases Act.

The results of the policy in regard to glanders, adopted in 1904, continue to indicate that this disease is rapidly being brought under control. The number of cases again shows a marked diminution in every province of the Dominion, with the single exception of Saskatchewan. In this province the number of horses destroyed was somewhat larger than in the preceding year, this being the first occasion on which such an increase has occurred since the inauguration of the policy. The increase may be fairly attributed to two causes; firstly, the continual importation of American horses, some of which, although duly accompanied by the certificates required by the regulations, have possibly been in contact with affected animals prior to shipment;

secondly, the rapid growth of settlement over a large area, which renders it extremely difficult for the department to maintain a force of competent and properly trained inspectors sufficient to deal promptly and effectively with the constantly changing conditions.

A few cases of dourine, or *maladie du coit*, were discovered and dealt with in Alberta during the year, the expenditure in compensation being very much less than in the previous season. Every effort is being made to eradicate this disease, which, however, owing to its insidious nature, is often exceedingly difficult to detect.

Mange of horses and cattle still occupies the attention of a considerable portion of the staff in Alberta and that portion of Saskatchewan which lies within the quarantined area. As may readily be imagined, it is a matter of great difficulty to secure the complete eradication of a disease of this kind among animals running at large on the open range, or exposed to contact with stock kept under these conditions. The progress made, however, is very satisfactory, especially in view of the fact that the climatic conditions during the season just past were of such a nature as to largely increase the difficulty of securing the satisfactory treatment of affected animals.

The figures in regard to sheep scab are very encouraging, indicating, as they do, that this disease is now entirely under control in those districts in Ontario in which it formerly existed. Sheep scab was, however, discovered to exist over a limited area in the province of Quebec, prompt measures being taken for its eradication. With this exception the disease is not now known to exist in Canada.

The statistics with reference to hog cholera indicate that the districts in western Ontario, in which this disease for many years maintained a foothold, are now entirely free from infection. Such outbreaks as have occurred either in Ontario or elsewhere during the year just past were in all cases among hogs fed on hotel swill and other garbage of a like nature. In the report of the Veterinary Director General will be found some valuable information regarding this phase of the question.

The stringent measures which, early in 1910, I deemed it necessary to adopt in connection with the serious outbreak of rabies, which was then rapidly extending over western Ontario, have, I am glad to say, proved most effective in stopping the spread of the disease. The outbreaks which took place in February, 1910, the month during which the muzzling order was brought into force, numbered 74, in March, 63, April, 31, May, 30, June, 31, and in July, 5, after which the disease gradually disappeared. In March, 1911, a few cases occurred in the county of Welland, but these, which were evidently due to a fresh infection introduced from the State of New York, have been promptly dealt with and I do not think that any recrudescence of the old infection need now be feared.

Although a few isolated and comparatively trifling outbreaks of Anthrax have occurred in Ontario and Quebec, this disease has not, during recent years, assumed serious proportions in any part of the Dominion. This condition may be largely attributed to the fact that the owners of infected farms are now in the habit of regularly inoculating their animals with the preventive vaccine, which is prepared at the Biological Laboratory and furnished at the nominal price of five cents per dose.

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Very satisfactory progress has been made in the investigation which has for some time been carried on into the nature and causes of Red Water among cattle in British Columbia. The reports furnished by Dr. Seymour Hadwen who is in charge of this work, are very reassuring, and although his official conclusions are not yet available, the indications are that he will probably be able, in the near future, to recommend such measures as will prevent further losses from this malady.

Dr. Watson of the Pathological staff, who is stationed at Lethbridge, Alberta, has, during the year, been continuing his investigations into the nature and treatment of Dourine. Special reports on this subject are published as appendices to the report of the Veterinary Director General and Live Stock Commissioner, as is also a special report by Prof. J. L. Todd, of McGill University, with regard to the disease known as Swamp fever. I am glad to be able to state that, so far as can be ascertained, only three cases of Hemorrhagic septicaemia have occurred in Canada during the year just past. This fact, however, affords no guarantee that the peculiar malady in question will not recur during the present or future seasons. But little is known regarding its true nature and, as it has not yet been definitely shown to be contagious, I have not, so far, recommended its inclusion among the diseases scheduled among the Animal Contagious Diseases Act.

At the meeting of the American Veterinary Medical Association, which was held in Chicago in August, 1909, the International Commission on the Control of Bovine Tuberculosis, of which Dr. Rutherford is chairman, was created on the understanding that the movement would receive the moral, and, to some extent, the financial support of the governments of the United States and Canada, as also of the various state and provincial governments and other bodies interested in the subject. The report of this Commission has already been widely distributed. Although originally published by the parent body, it was also by my authority issued as a departmental publication, a similar course being followed by the Department of Agriculture at Washington, and by many of the state departments and other governmental bodies interested.

The policy recommended in this report is, in my opinion, such as to warrant its approval by any person who has given this subject the study and consideration which it deserves. I have, however, thought it advisable to delay the adoption of active measures until such time as the wide circulation of the report has rendered the stock owning public familiar with its contents, and perhaps more ready to co-operate with the department in carrying out its recommendations.

The enforcement of the regulations with regard to the cleansing and disinfection of stock cars, and the supervision of the various stock yards and cattle markets throughout the Dominion, has brought about a marked improvement in the general conditions affecting the transportation of stock. For some years past the Veterinary Director General has been engaged in collecting information regarding the whole question of live stock transportation and it is my intention on his recommendation to take such steps in the near future as will bring this matter more effectually than hitherto under the direct control of my department.

The quarantine service, especially that along the International boundary, has been strengthened and improved at many points during the year just past. A number of



new buildings have been erected, while others are at present in course of construction. The demand for accommodation of this class, especially in the west, is constantly increasing owing to the continued influx of settlers from the United States and the opening up of new routes of travel.

The meat inspection service has progressed in a very satisfactory manner, and has yearly gained more favour with the consuming public. Owing, however, to the fact that its operations are limited to those establishments which engage in export or interprovincial trade, many of the people of Canada are still without the safeguards which such a service furnishes. Many communities throughout the country, are, however, waking up to the necessity of adopting more active measures in the matter of food inspection than they have hitherto done. For some incomprehensible reason, however, public sentiment with regard to matters of this kind appears to grow very slowly, and it will, I fear, be some time before local conditions are even reasonably satisfactory in this respect.

The supervision which is now maintained over the canneries engaged in the packing of fruits and vegetables has also, I am glad to say, been productive of most beneficial results. Careful attention is also being paid to those establishments engaged in the manufacture of condensed and other forms of preserved milk.

The policy which I adopted some five years ago of combining under one directing officer the Health of Animals Branch and the Live Stock Branch has been fully justified by the results achieved.

The work of the two branches overlaps to a greater or less extent at many points, and their combination has not only effected a very considerable financial saving but has largely increased the efficiency of the service.

### ARCHIVES.

During the past year, the Archives Branch has acquired valuable collections of papers, some exceedingly interesting Canadian prints and plans, and a large number of books and pamphlets bearing on Canadian history.

It is gratifying to announce that His Majesty the King has presented to the Archives copies of letters in his possession relating to our history. Several valuable manuscripts have, moreover, been given by His Excellency the Governor General, the Earl of Durham and Colonel Bagot.

The government has also been fortunate in securing the most complete file in existence of the *Quebec Gazette*, from the first issue of the paper in 1764 to the year 1855.

The Archives Branch has, in addition, installed a machine for the reproduction of manuscripts and plans, which will not only save large sums in connection with the transcription of records, &c., but will enable the Archives to obtain copies of documents unobtainable by other methods. Considering the great dangers to which valuable records in private hands are exposed, I would urge those who may possess



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any of historic interest either to send them to the Archives on deposit, or else to permit them to be copied by the new process and returned. Many documents which would throw light on our development would thus become available to the future historian.

A detailed account of the work accomplished by the Archives Branch during the fiscal year will be found in Appendix No. 21.

## III.—PATENTS OF INVENTION.

The following tables show the transactions of the Patent Office, Department of Agriculture, from April 1, 1910, to March 31, 1911:—

Applications for Patents.	PATENTS AND CERTIFICATES GRANTED.			Caveats.	Assignment of Patents.	Notices under Section 8.
	Patents.	Certificates.	Total.			
8,037	7,249	1,002	8,251	406	3,356	1,044

## DETAILED STATEMENT, Patent Office Fees.

Month.	Notices.	Patents.	Assign- ments.	Certified Copies.	Caveats.	Sundries.	Subscrip- tions.	Total.
1910	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
April . . . . .	133 00	15,310 00	674 96	201 70	190 00	11 10	144 60	16,665 36
May . . . . .	134 00	17,700 75	759 75	242 84	190 65	16 00	124 45	19,168 44
June . . . . .	139 75	16,289 00	643 50	196 46	205 00	5 75	34 75	17,514 21
July . . . . .	178 00	14,746 50	616 50	175 15	165 00	6 00	9 20	15,896 35
August . . . . .	132 00	13,504 17	620 75	220 80	185 00	13 88	17 00	14,693 60
September . . . . .	126 00	14,473 25	544 00	163 45	180 00	9 95	9 80	15,506 45
October . . . . .	182 00	14,400 00	552 05	182 95	170 00	32 75	8 80	15,523 55
November . . . . .	214 00	15,594 75	547 25	211 30	145 00	12 00	13 55	16,737 85
December . . . . .	158 20	14,287 50	641 70	243 70	150 25	8 00	81 05	15,570 40
1911.								
January . . . . .	204 00	15,919 25	655 00	339 00	210 00	17 00	25 65	17,369 90
February . . . . .	253 00	14,811 25	528 25	256 90	140 00	17 00	58 65	16,065 05
March . . . . .	235 00	17,949 90	793 75	229 55	200 00	16 00	44 05	19,448 25
	2,088 95	184,966 32	7,577 46	2,663 80	2,130 90	165 43	571 55	200,164 41

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The Canadian patentees were distributed among the provinces of the Dominion as follows:—

Ontario.	Quebec.	British Columbia.	Manitoba.	Alberta.	Saskatch- ewan.	Nova Scotia.	New Brunsw- wick.	Prince Edward Island.	Yukon.
610	271	108	102	54	47	31	23	.....	.....

Patents issued to residents of Canada, with the ratio of population to each patent granted:—

Provinces.	Patents.	One to every
British Columbia.....	108	3,501
Ontario.....	610	4,575
Manitoba.....	102	5,295
Alberta.....	54	6,909
Quebec.....	271	8,247
Saskatchewan.....	47	9,062
New Brunswick.....	23	15,932
Nova Scotia.....	31	16,349
Prince Edward Island ..		
Yukon.....		

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Patents issued to citizens of foreign countries during the past four years:—

Countries.	1907.	1908.	1909.	1910.
United States of America.....	4,281	5,030	4,602	5,021
Great Britain.....	330	313	346	392
Germany.....	201	214	215	241
Australia.....	97	76	58	60
France.....	78	91	59	75
New Zealand.....	41	31	36	37
Sweden.....	34	46	40	39
Belgium.....	23	18	17	20
Austria.....	23	14	33	23
Italy.....	20	14	10	8
Switzerland.....	12	13	11	12
Denmark.....	10	29	8	8
Transvaal.....	8	6	12	12
Hungary.....	8	8	5	7
Russia.....	8	5	4	14
Norway.....	7	13	9	18
Newfoundland.....	4	4	1	2
Netherlands.....	3	0	4	0
Mexico.....	3	4	4	11
Cape Colony.....	2	0	1	0
Cuba.....	2	3	0	1
Spain.....	1	0	2	1
Chili.....	1	0	1	0
Finland.....	1	5	1	0
Portugal.....	1	0	1	0
Roumania.....	1	0	1	0
Grand Duchy of Luxemburg.....	1	2	1	0
Algeria.....		1	0	0
Japan.....		3	1	2
India.....		1	0	0
Natal.....		1	0	0
Nicaragua.....		1	0	0
Brazil.....		1	0	0
Turkey.....		1	0	0
Poland.....		1	3	2
Holland.....		10	0	2
Argentine.....			4	5
Panama (Canal Zone).....			2	0
Egypt.....				1
Southern Rhodesia.....				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.		Reissues.	
6 years.	12 years.	18 years.	6 years.	12 years.	6 years.	18 years.
7,208	5	26	975	27	8	2

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COMPARATIVE STATEMENT of the transactions of the Patent Office from 1872, when foreign applications were first admitted, to 1911, inclusive.

Year.	Applications for Patents.	PATENTS AND CERTIFICATES GRANTED.			Caveats.	Assignments.	Fees received.
		Patents.	Certifi- cates.	Total.			
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	300	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	33,656.30
1878	1,428	1,172	96	1,268	172	832	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	2,641	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	1,159	65,246.51
1889	3,279	2,725	356	3,081	221	1,437	78,046.72
1890	3,560	2,428	369	2,797	248	1,307	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	2,614	3,153	292	3,445	229	1,345	63,850.19
1894	3,291	2,756	462	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	99,361.95
1899	4,305	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	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	8,037	7,249	1,002	8,251	406	3,356	200,164.41

\* Only ten months.

\*\* Only six months.

The total revenue of the Patent Office for the year ending March 31, 1911, was \$200,164.41.

The number of new applications for patents presented during the year was 8,037, an increase over the preceding year of 248.

The total number of reports issued by the examiners during the year was 11,069, and 10 patents were surrendered and reissued.

Out of the total number of patents granted by this office during the year, there were 4,885 issued to inventors, or assignees, resident in the United States, being 67 per cent of the whole issue.

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This branch of my department continues to receive the official reports of patents from Great Britain, Australia, United States, Mexico and Japan, in addition to other periodicals of a scientific nature, in exchange for the Canadian Patent Office Record.

There were 1,560 patents brought under the conditions of the Compulsory License clause, section 44, of the Patent Act during the year.

The number of notices under section 8 was 1,044.

The present fiscal year shows an increase in the business of the office and in its revenue. The total amount of fees received was \$200,164.41, being the largest receipts for the same period of time in the history of this branch of my department, the increase over the preceding year amounting to \$5,592.87.

#### IV. COPYRIGHTS, TRADE MARKS, INDUSTRIAL DESIGNS AND TIMBER MARKS.

STATEMENT of fees received by the Copyright and Trade Mark Branch from April 1, 1910, to March 31, 1911.

MONTHS.	Trade Marks.	Copy-rights.	Designs.	Timber Marks.	Assign-ments.	Copies.	Total.
1910.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
April.....	2,970.00	171.65	52.00	5.00	31.00	21.50	3,251.15
May.....	3,404.75	150.50	78.00	2.00	44.00	33.75	3,713.00
June.....	4,120.25	161.50	48.00	11.00	68.70	29.75	4,439.20
July.....	2,795.40	144.50	47.00	6.00	120.25	6.50	3,119.65
August.....	2,585.10	141.75	35.00	26.00	114.00	68.00	2,969.85
September.....	2,899.50	191.65	128.00	6.00	23.00	23.25	3,271.40
October.....	2,755.75	142.15	45.15	14.00	17.50	41.50	3,016.05
November.....	3,455.40	138.70	41.00	2.00	28.00	15.75	3,680.85
December.....	3,634.90	216.60	30.00	6.00	16.00	16.25	3,919.75
1911.							
January.....	2,869.55	112.50	61.00	6.00	21.60	37.00	3,107.65
February.....	3,438.07	127.36	95.00	2.00	16.00	9.50	3,687.93
March.....	3,740.53	149.25	45.00	6.50	28.00	8.00	3,977.28
Totals.....	38,669.20	1,842.11	705.15	92.50	528.05	310.75	42,153.76

The particulars of the registrations made by the Copyright and Trade Mark Branch of the Department of Agriculture during the year ended March 31, 1911, are as follows:—



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## 1. Copyrights—

Full copyrights without certificates.. . . .	1,379
Full copyrights with certificates.. . . .	177
Temporary copyrights without certificates.. . . .	31
Temporary copyrights with certificates.. . . .	11
Interim copyrights without certificates.. . . .	83
Interim copyrights with certificates.. . . .	18
Renewals of copyrights.. . . .	2
Assignments of copyrights.. . . .	19

— 1,720

## II. Trade Marks.. . . . 1,021

Renewals of specific trade marks.. . . .	24
Assignments of trade marks.. . . .	262

## III. Industrial Designs.. . . . 118

Renewals.. . . .	8
Assignments.. . . .	3

## IV. Timber Marks.. . . . 39

Assignments.. . . .	2
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 Total registrations.. . . . 3,197

The following table shows a comparative statement of the business of this branch from 1897 to 1910, inclusive:—

Year.	Letters Received.	Letters sent.	Copyrights Received.	Certificates of Copyrig ts.	Trade Marks Registered.	Industrial Designs Registered.	Timber Marks Registered.	Assignments Registered.	Fees Received.
									\$ cts.
1897 .....	2,606	3,548	756	273	446	75	13	94	14,101 93
1898 .....	2,576	3,453	734	275	423	136	15	114	13,535 17
1899 .....	2,487	2,910	702	237	430	112	5	117	14,161 28
1900 .....	2,679	3,213	893	247	447	126	22	136	14,782 53
1901 .....	2,605	3,211	888	149	521	146	24	183	16,823 20
1902 .....	2,687	3,257	900	196	528	164	26	222	17,703 00
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	33,197 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	7,888	1,699	206	1,021	118	39	286	42,153 76

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## V. PUBLIC HEALTH AND QUARANTINE.

Possibly the two most notable events in public health matters during the year have been the epidemic of Plague in its pneumonic form in China, and the epidemic of Asiatic Cholera in Europe.

Plague, in its bubonic or pneumonic form, has occurred during the year in Argentine, Azores, Brazil, Chili, China, Ecuador, Egypt, Great Britain, Hawaii, India, Indo-China, Japan, Malta, Manchuria, Mauritius, New Caledonia, Peru, Rhodesia, Russia, Siam, Straits Settlements, Trinidad, Tunis, Turkey in Asia, Venezuela and Zanzibar.

The most virulent outbreak has been that in Manchuria. There the disease took the pneumonic or pulmonary form. The outbreak began in October last, and is only now dying out. There has been an epidemic disease for some time amongst the small burrowing animals somewhat larger than a marmot, known by the Chinese name 'hanta,' and the Siberian or Russian name 'tarbagan.' These little animals are found in great numbers in western Mongolia. Within the last two years it has been discovered that their skins and fur when dyed may be passed as sable. Since then they have been in considerable demand; and their furs brought out for sale are believed to have brought the infection. The disease has been very fatal, the deaths numbering 31,432 in Manchuria to March 10.

In the United States one case of human plague in San Benito county, California, on June 5, 1910, and one in Santa Clara county, in the same state, on August 23, 1910. Plague-infected ground squirrels were found during the year in nine counties in California.

In Great Britain four cases of Plague occurred in Suffolk in September last; and there were two deaths from Plague in London in October last, both from vessels from Bombay.

Regular monthly supplies of anti-plague serum are received by me from the Lister Institute in London, England, ready to be sent to any point in Canada should it be required.

Asiatic Cholera has occurred this year in the following countries: Arabia, Austria-Hungary, Bulgaria, Ceylon, China, Denmark, Formosa, France, Germany, Hawaii, India, Indo-China, Italy, Japan, Java, Korea, Madeira, Morocco, Persia, Philippine Islands, Russia, Siam, Straits Settlements, Sumatra, Tripoli, Turkey and Turkey in Asia.

It has also appeared at the quarantine stations of Canada and of the United States.

The sixth pandemic of Cholera began in India in 1902, and spread through farther India and China to the Philippines. In 1903 it spread, as usual, by way of Afghanistan, Persia and Arabia, to Egypt, Syria, Palestine, Asia Minor and the Black sea. In 1904 it followed the caravan routes from central Asia to Baku and the lower Volga. During 1905 it spread over eastern and southern Russia and Poland,

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and in the same year it appeared in east Prussia, introduced from Russia by raftsmen on the river Vistula. Remaining prevalent in India, it reached Russia again in the autumn of 1908, and in 1909 it was widespread in Russia, and 6,000 deaths were recorded by the end of August; a small outbreak occurred in Holland. During last year this disease again assumed epidemic proportions in Russia, nearly 200,000 cases and 90,000 deaths having been reported by the end of September. A serious outbreak took place in Italy, causing 1,000 deaths in the Naples district in September. Turkey was widely affected in the autumn months. The disease also broke out in Portugal, while Madeira was seriously affected a little later. Thus by the end of 1910 Cholera was more widely spread in Europe than at any time since 1892, and southern Europe was affected to a greater extent than in any year since the invasion from Egypt in 1884.

At my Quarantine Station of Grosse Isle, in the river St. Lawrence below Quebec, a case of Asiatic Cholera arrived in November last. Immediately upon receipt of the news by telegraph, I directed my Director General of Public Health, as my senior sanitary officer, to proceed to the station and take charge of the situation. The patient—a Russian immigrant—was taken into hospital, and the steerage passengers who had been in contact with him were landed for quarantine of observation. The vessel was thoroughly disinfected and allowed to proceed. The landed passengers, after being bathed and disinfected, with their effects were released all well after five days' observation. No further cases occurred. The disease was therefore arrested and stamped out at my quarantine, as was done under somewhat similar circumstances at the same station in 1893.

Leprosy.—The new cases developed or discovered in Canada during the year have been six. Five in the maritime provinces have been admitted to my Leper Lazaretto at Tracadie, N.B., and the sixth, a Hindu, was taken from Kamloops, B.C., to my Leper Lazaretto at Darcy Island, B.C., and thence subsequently deported to his own country with his full consent.

There have been four deaths in my Lazaretto at Tracadie during the year. At present the patients there number twenty-one: thirteen males and eight females.

Smallpox has prevailed very generally throughout the year. In addition to my regular quarantine inspections, I have found it expedient to establish special temporary inspections against this disease from time to time as its local threatening waxed and waned. Thus on account of smallpox in Newfoundland special inspections were ordered at my Atlantic quarantines. On account of this disease in Nova Scotia and New Brunswick, special inspections were ordered in Prince Edward Island ports. On account of this disease to the south, temporary inspections have been established by me from time to time, at Sault Ste. Marie, Port Arthur, Rainy River and Fort Frances in Ontario; North Portal, in Saskatchewan, and Huntingdon, in British Columbia.

Circular letters of warning and instruction were issued from time to time to my officers; and strict measures—ordinary and special—have been applied by me for the sanitary protection of the country.

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Reports and publications of many sanitary authorities, boards and associations have been received, including the Procès-Verbaux and the bulletins of the International Office of Public Health at Paris, France, as well as the monthly bulletins of the Sleeping Sickness Bureau; which have been of interest and an aid to the public health service of my department.

**VI.—CENSUS AND STATISTICS.**

The Canada Year Book for 1909, being the fifth volume of the second series, was published in May, 1910. Progress was made with the preparation of the Year Book for 1910, and the MS. of the statistical tables was delivered to the Printing Bureau before the close of the fiscal year.

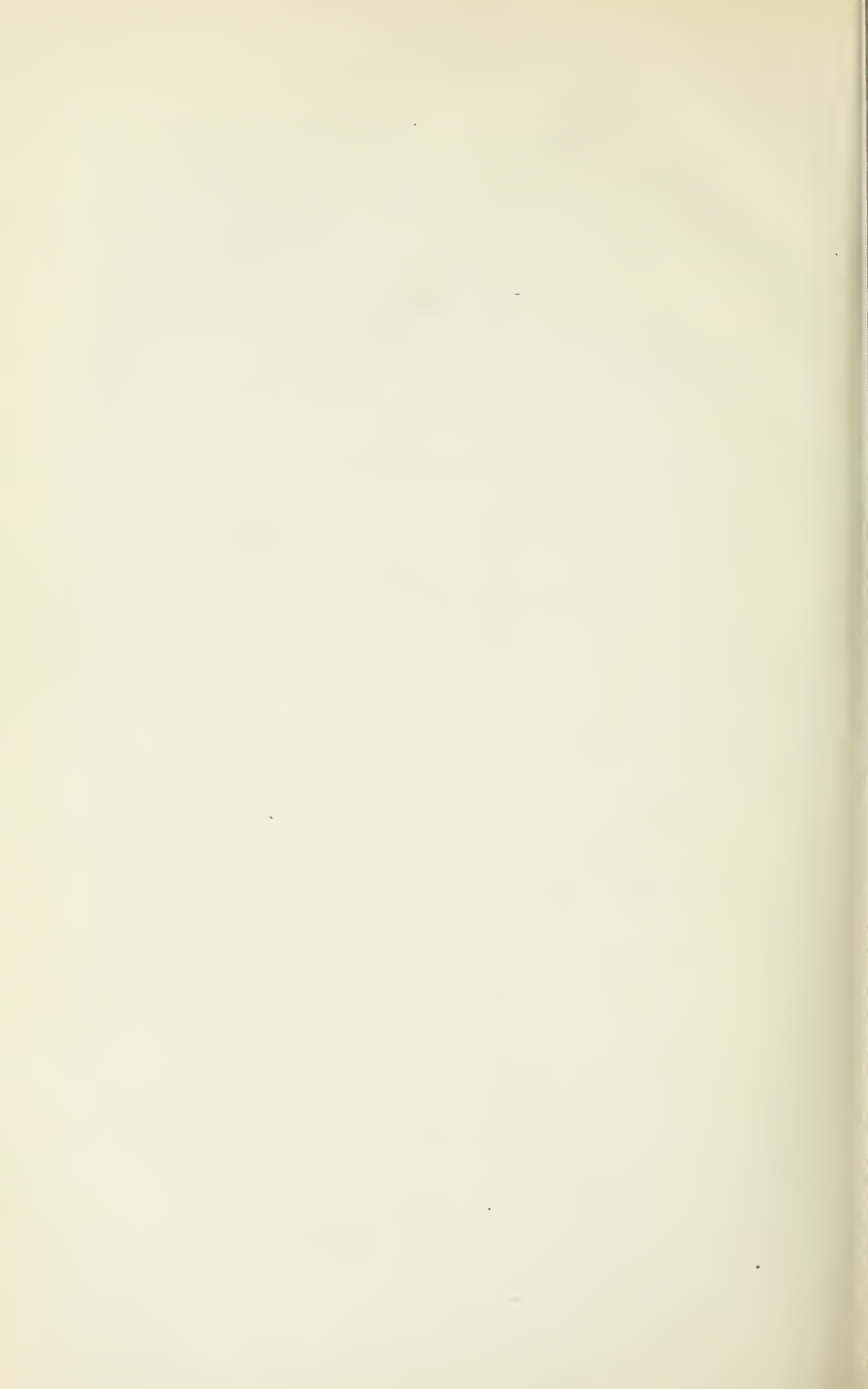
The report on the Criminal Statistics of 1909 was issued, and the report for 1910 is now being prepared.

Much time was occupied in preparing for the Fifth Census of the Dominion of Canada, to be taken on June 1, 1911, in the appointment of commissioners and enumerators and in the general organization. Arrangements were made for the building and installation of electrical calculating and tabulating machinery, by which notwithstanding a larger population the results of the Census of 1911 will, it is hoped, be available in less time and at lower cost than were those of previous censuses. The necessary schedules were prepared and published in the *Canada Gazette* of July 9 and 30, 1910, and the Instructions to Officers, Commissioners and Enumerators were prepared, and were approved by order in council on March 31, 1911.

The whole respectfully submitted.

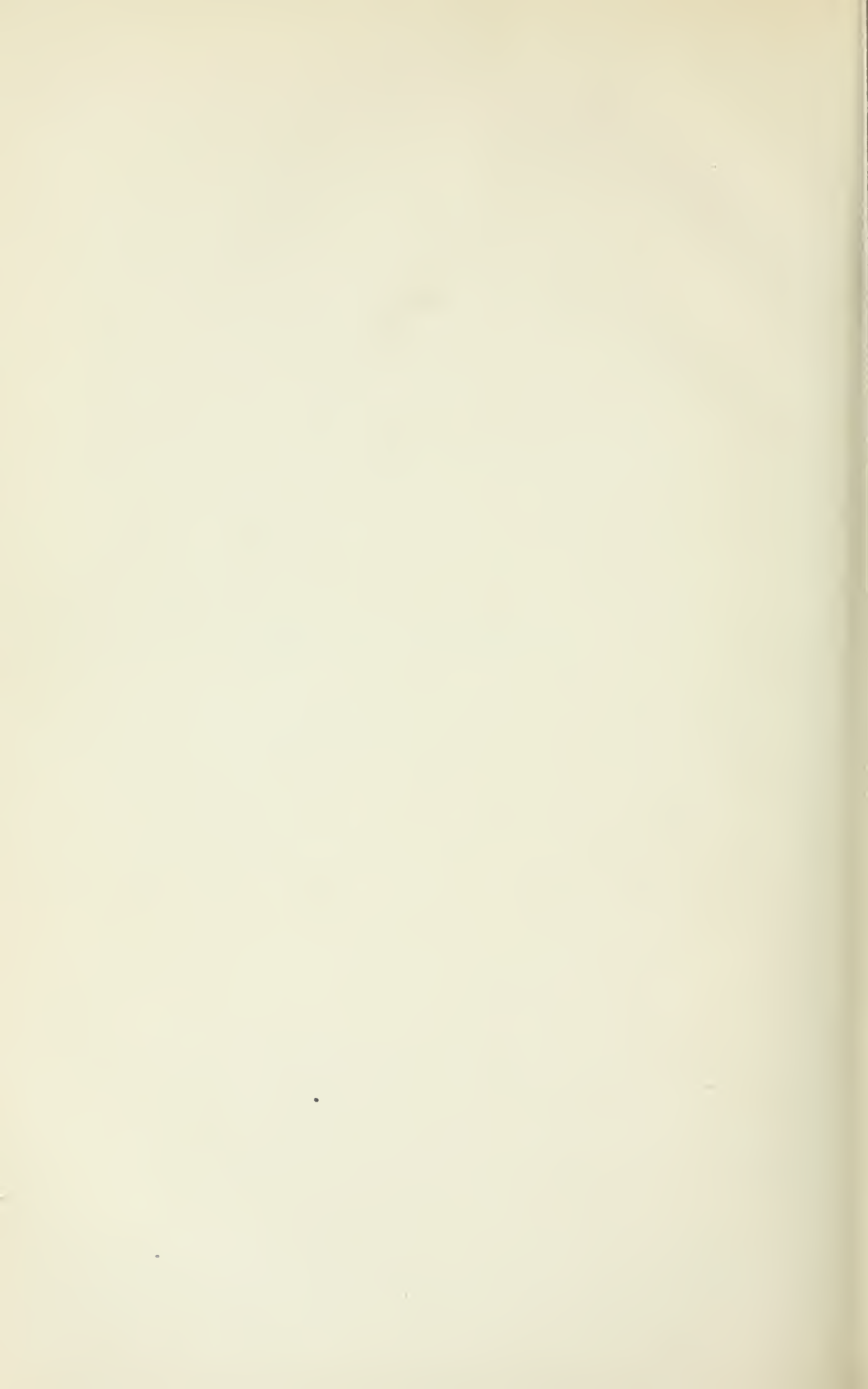
SYDNEY A. FISHER,

*Minister of Agriculture.*





# APPENDICES



# PUBLIC HEALTH.

## APPENDIX No. 1.

### REPORT OF THE DIRECTOR-GENERAL OF PUBLIC HEALTH.

(F. MONTIZAMBERT, I.S.O., M.D. Edin., F.R.C.S.E., D.C.L.)

March 31, 1911.

SIR,—I have the honour to submit this my report as Director-General of Public Health, for the year ending this day.

Amongst the continued threatenings of infectious diseases from abroad, those of Asiatic cholera and bubonic or pneumonic plague have been the gravest in their menace to this country.

*The Plague.*—This disease has shown itself during the year in Argentine, Azores, Brazil, Chili, China, Ecuador, Egypt, Great Britain, Hawaii, India, Indo-China, Japan, Malta, Manchuria, Mauritius, New Caledonia, Peru, Rhodesia, Russia, Siam, Straits Settlements, Trinidad, Tunis, Turkey in Asia, Venezuela and Zanzibar.

The most virulent outbreak has been that in Manchuria. The disease here took on the pneumonic or pulmonary form. The outbreak began October 25, 1910. Every case almost without exception proved fatal. Six hundred persons died of it in Harbin in the first fifteen days. The onset and fatal termination are described as appallingly sudden and rapid; men walking about and declaring themselves in perfect health suddenly developing a temperature as high as 40° centigrade, and dead in two or three hours. So impossible has it been to find a fully authenticated case of recovery, that the *New York Herald* remarks that the experience seems to warrant the Irishism: 'If you recover from this plague it's a sure sign you haven't had it.'

The origin of the outbreak has been attributed to the hunting of the 'hanta' or 'tarbagan,' and the handling of its skin. This little animal, which is found in great numbers in western Mongolia, much resembles the prairie dog or the muskrat in its habits of life. It is a burrowing animal, somewhat larger than a marmot. The Chinese name 'hanta' carries the literal translation of 'land otter,' but the description does not fit the otter as we know it. 'Tarbagan' is the Mongol name, or perhaps the Siberian, and seems to be generally used by the Russians.

Up to three years ago there was no general demand for 'hanta' or 'tarbagan' skins. The natives did not use them, having so many other and larger animals from which to draw their supply of furs. Then some enterprising European furrier discovered that when dyed the skins of these little animals might be passed as sable upon unsuspecting buyers in Europe and America, and since then there has been a very considerable demand; and a rapid rise in price from a few kopecks to rubles was a sufficient incentive to direct the attention of hunters to them.

This animal is peculiarly liable to attack by the plague bacillus. This fact has long been known, and it is equally well known that in their haunts along several of the Siberian rivers they infect each other constantly.

It has been found that the disease amongst them was due to plague, and the furs brought to Harbin for sale are believed to have brought the infection. Whether this be absolutely true, or whether the disease was brought to Mukden, Shanhaikwan,

Tientsin and Pekin through persons travelling on the railroad cannot be stated definitely. The fact is that Harbin was the original hotbed of the disease. It spread from there in all directions, usually following the lines of traffic, the principal of which is, of course, the railroad. The city of Harbin is divided into a Russian, a Japanese and a Chinese part. The Russians and the Japanese took strenuous measures at once to stamp out the disease in their quarters, and they have it well under control in their respective parts of the town; but the Chinese problem was a much more complex one, and their people much more numerous and perhaps less enlightened; consequently, the disease got beyond their control, and it was from the Chinese native city of Harbin that the disease spread. The thing to do would have been to stop all railroad traffic from that city early in the epidemic, but that meant, of course, great loss of money and much inconvenience; so it was allowed to go on until it was too late, for this disease in January was found as far south as Chefu, and had got to several towns some distance away from the line of the railroads. This meant that it would spread inland, for the Chinese towns and villages are numerous and usually not far apart in this region, so that people travelling by cart and on horseback would spread it to other inland villages.

If the disease gets to central China, where the climate is warm and damp, it will find a soil excellently adapted for the spread of the disease. It may die out in the north with the coming of the warm dry season, but with the coming of the wet season again it will be, doubtless, brought up from the south and central provinces again and practically become epidemic unless the Chinese authorities employ most stringent methods to check the spread of the disease at once. It is due to them to say that they were in January rushing both foreign and Chinese doctors and assistants to the cities of Harbin, Mukden, Shanhaikwan and Tientsin, which are the largest cities on the line of the Imperial Chinese and the Manchurian railroads, but they waited too long. January is the most advantageous time of the year for the spread of the disease, for thousands of coolies at that time are returning from Manchuria to the provinces of Chili, Shantung, &c., after having spent a summer and fall in earning their bread in the wheat fields or lumber forests of Manchuria, and also because it is just about the time of the Chinese New Year, when every Chinaman who can returns to his home for the festive season.

Dr. Mallowney, of Pekin, writes to the *Journal*:—

To get down to a few more specific data about this epidemic: 1. The disease started at Harbin. Up to January 24, 1911, about 1,500 Chinese and 27 Europeans had died, of whom two were physicians and one an assistant. 2. The disease is met with, mostly, in the pneumonic and septicemic types. 3. Inoculation with Haffkine's antibubonic vaccines seems to be of considerable value as a prophylactic measure. 4. The administration of Yersin's serum in treatment does not seem to be of much value, although it should be said that it has not been given a full trial. If it were possible to take, say, forty or fifty cases and administer the serum to the patients and compare them with a like number that had not had the serum, we could say something more definite, but so far as I am able to learn this has not been done in this epidemic. 5. It has been conclusively shown that the disease, in the pneumonic form, is transmitted by the sputum and by contact with persons sick of the disease, and that the wearing of respirators is good prophylaxis. 6. The rat, or the rat flea, does not seem to have nearly as much to do with the spread of the pneumonic type of the disease as it has in epidemics of the bubonic type. 7. So far as I am aware, this is the first definite epidemic of the pneumonic type of the bubonic plague. 8. The disease spread along the line of railway traffic from Harbin to Mukden, to Shanhaikwan, to Tientsin and to Pekin and to several smaller places. It also got to Chefu, which is a seacoast town, probably through some Chinese coolies returning from the north in a Chinese junk or fishing boat.

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Exact statistics concerning the plague in Manchuria and its extension to neighbouring provinces are not obtainable. The disease was recognized at Kharbin in Manchuria on October 29, 1910. It was of the pneumonic type; it spread rapidly. It began in the Chinese portion of the town, but the Russian quarter was speedily affected. The dead were in such numbers that burial was impossible, and had it not been that the Chinese followed the Russian example of burning the bodies the calamity would probably have assumed yet more terrible aspects. From Kharbin the disease spread in every direction, but chiefly southwards, owing to the flight of the Chinese in that direction to escape the epidemic. Mukden soon became infected, and subsequently Peking and Tientsin. It is only from these cities, where many Europeans dwell, that any idea can be gathered of the virulence of the outbreak. In the towns and districts unfrequented by Europeans there is no means of gauging the number of people who have contracted or succumbed to the disease. Practically the whole of Manchuria, with its population of between twenty and thirty millions, is in the zone of infection, and the disease has occurred on a large scale beyond the borders of the province. It is stated in a telegram to the *Times*, dated Peking, February 21, 1911, that 'the total number of deaths since the outbreak of the epidemic is given as 19,000.' The Chinese, however, have no registration system by which they can even guess the number of their people, far less the birth-rates and death-rates. One method of estimating the actual number of persons that die in any locality is simplicity itself: the governor of the district sends round to the coffin-makers, and asks how many coffins they have made during a specific time. As, however, in many parts of Manchuria dead bodies are being burnt, this simple expedient is not available. If the return of 19,000 deaths in these thickly populated districts represents the number of persons who have died of plague between October 20, 1910, and February 21, 1911, then must the number be considered insignificant compared, say, with the returns from the United Provinces in India or the Punjab, where even in 1910, when plague prevailed to a minimum extent, the number of deaths in the Punjab alone exceeded 140,000, and during two weeks in April, 1910, the number exceeded 20,000 amongst a population less than that of Manchuria. But it is evident that the mortality returns from Manchuria seriously underestimate the facts. Ever since 1888 plague has been known to exist in the Transbaikial district of Aksha, on the Russo-Mongolian frontier, where 'household' outbreaks of plague occur amongst persons who harbour the tarbagan (*Arctomys bobac*), a species of marmot. The marmot is hunted by the Buriats and the Cossacks of this district, partly for its flesh, which is considered a great dainty, but principally for the peritoneal fat, which is used for greasing straps, harness and other leather materials. A centre of plague however, has, been known to exist for over twenty years, also at Toug-kia-yng-tze, a small village in Mongolia, some 500 miles northeast of Peking, at the foot of the great Mongolian plateau. Here the marmot also is found in numbers, but the people do not consider that it is the cause of the disease, which is not of the 'household' variety, but occurs as an epidemic from time to time, both in the bubonic and pneumonic forms.

As has been said, the epidemic has been so far of the pneumonic form, and in this connection it may be remembered that the natives of Manchuria, during the severe winter which commonly prevails there, are in the habit of shutting themselves up in crowded dwellings, which they seldom leave, a condition of things which would undoubtedly favour the transmission of the infection directly from man to man; at the same time it is important to ascertain whether, even under these circumstances, there is not some domestic animal or vermin concerned. With the advent of spring weather, when the habits of the people change and they spend the greater part of their time out of doors, it is reasonable to expect that the epidemic will decline, and, in fact, there are already encouraging signs of this.

At the present moment the area infected is very extensive. The disease prevails from Lake Baikal in the west to the Sea of Japan in the east, some 1,500 miles,



and in a direction north and south from the Amur river to the Pe-chili Gulf and the Yellow Sea. The epidemic in northern China has caused more serious alarm in Europe than any other outbreak since plague appeared in 1894 in southern China, the reason being probably the direct communication by railway which now exists between north China and Europe, and partly, no doubt, to the virulent type of the malady. That the railway is a danger there can be no doubt. Ships can be quarantined and disinfected, and their arrival in the ports of a country notified, but plague spreading by land is far more difficult to check, and no system of quarantine or cordons ever tried has succeeded in preventing the malady from advancing beyond the confines of a district.

The epidemic of plague in Manchuria must be regarded as an extension of the sixth pandemic of that disease, which had its origin in south China in 1893, and since that time spread to over fifty countries throughout the world. On account of the limited amount of communication by means of ships and shipping, and the almost entire absence of immigration from north China, the epidemic of plague in Manchuria is not at present a serious menace to the health of the world. It indicates, however, that the infection is slowly spreading, and recalls the occurrence of outbreaks in other parts of the world, which are a distinct menace. In many parts of south China plague continued to prevail during the year 1910. In Japan, cases of the disease have occurred in four important centres, including Osaka and Yokohama. In India there was an increase in the number of fatal cases as compared with the two previous years. In Argentine, Brazil, Ecuador, Peru and Venezuela, plague has also been reported during the year as being more or less widespread. In Africa, the disease has been reported from widely separated localities, and prevailed in Egypt in epidemic form. In Europe, cases and deaths were reported from St. Petersburg, Moscow and Odessa, Russia; Lisbon, Portugal; and Suffolk county, England. In the United States, two human cases were reported from rural districts of California. Plague may accordingly be regarded as now being present on every continent.

While only two human cases occurred in California, infected ground-squirrels have been reported from ten counties of that state since April, 1909, as a result of systematic examinations of 253,312 rodents. Recognition of the prevalence of the disease among ground-squirrels in rural districts, the absence of the infection from cities, the natural barrier afforded by the barren mountainous section intervening, and the prosecution of vigorous anti-plague measures in the infected area, have decreased the potential danger to other sections of the country outside of California. Continuation of the systematic campaign that is now being waged against ground-squirrels should further limit this danger to the population in the infected area, and reduce the liability of the spread of the disease to a minimum.

On account of the limited communication with Oriental, African and South American ports, and because of the precautions taken at our quarantine stations, the presence of plague in these ports is not now a serious menace to the health of the country. Of greater significance is the occurrence of the disease in Europe, especially in England, as in Suffolk county rat plague is reported as being widespread, and there is said to be no precise knowledge as to how long the infection has prevailed. The enormous traffic with England by means of shipping makes the prevalence of rat plague in that country a matter of immediate concern. Even though the disease should not spread there and become prevalent among man, its presence among rodents is an element of danger to shipping that must be taken into account.

In reviewing the present status of the sixth pandemic of plague, it is evident that it has begun to recede in only a few isolated localities, and that there yet remains much territory capable of infection. Since the disease seems to be primarily one of rodents, account must be taken of any unusual mortality among them, at least in all ports having relations with infected countries. It would seem, there-

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fore, to be the duty of local health authorities to examine systematically from time to time rodents collected in their jurisdictions, to encourage the rat-proofing of houses, and otherwise to correct insanitary conditions responsible for the continuance of plague in cities.

In the endeavour to prevent the further spread of bubonic plague which is now more or less prevalent in so many countries, a study of the history of the disease is of service, for it throws some light on the occurrence and continued existence of this dread epidemic. Prof. R. T. Hewlitt, writing in *Nature*, December 17, on Oriental and bubonic plague, and quoting largely from Professor Simpson's treatise on the disease, comments on a feature which has characterized plague from the earliest times, namely, the alternation of periods of widespread prevalence with periods of quiescence and complete intermission. Thus, in the fourteenth century in the course of three years plague decimated the whole of Europe, with an estimated destruction of one-fourth of the population. In the fifteenth, sixteenth and seventeenth centuries there were frequent outbreaks in Europe, Asia and Africa, more or less limited in extent, culminating in England in the great plague of London, with 97,306 burials in one year, of which 63,596 were attributed to plague, whereas in the five years preceding and succeeding this terrible visitation the normal number of burials in London ranged from about 15,000 to 20,000. Plague then rapidly disappeared from western Europe, so that by the end of the seventeenth century it was practically extinct, and save for isolated outbreaks occurred only in Turkey, the Levant, Egypt and Asia Minor. It was practically unknown to the present generation until 1894, when it reappeared in epidemic form, this time in Hong-kong.

In the olden days little or nothing was known concerning the means by which plague was transmitted and kept alive, for the role played by animals in the conveyance of disease to man has been recognized only in recent times. At first the rat was held to be the sole harbinger and disseminator of plague, but now many small animals have been convicted and yet more are under grave suspicion. Past Assistant Surgeon W. C. Rucker, United States Public Health and Marine Hospital Service, writes in the *Military Surgeon*, January, 1911, dealing with the investigations of himself and coadjutors in California in regard to the spread of plague by certain small wild animals, notably by ground-squirrels. Plague first manifested itself on a large scale in the United States in 1900, when an outbreak occurred in the Chinese quarter of San Francisco, and it was not until 1904, after having killed 225 people, that it was eradicated. In 1907 plague reappeared among rats and men in San Francisco, and for many reasons, the chief of which was that ground-squirrels for food purposes were being continually brought into San Francisco, it was thought that infected fleas might have been brought into the city by these means. In 1908 four squirrels were discovered to have plague. In the spring of 1909 the Public Health and Marine Hospital Service began the regular examination of the ground-squirrels in Contra Costa county. It was eventually discovered that about one-seventh of the total area of California was infected. Further, plague has been found in the wood rat, which exists in large numbers in all those states west of a line drawn from the southwest corner of North Dakota to Pensacola, Florida, and is also found in the Appalachian chain of mountains which extends from the Hudson river as far south as northern Alabama.

Perhaps the most alarming discovery made is that by Past Assistant Surgeon G. W. McCoy, that squirrel fleas will transmit plague to rats and that rat fleas will carry the disease to squirrels. The disease, too, exists in chronic form in ground-squirrels. Thus, as Rucker says, 'There exists an ideal condition for the perpetuation of the disease without the extermination of the host, and in those places where the life zones of the suburban rat and the country squirrel overlap a rat plague epizootic may be started, these rats in turn communicating the disease to the city rat, which comes into more intimate contact with man from the starting point of an epidemic.'

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Rucker rightly points out that the task which confronts those who are engaged in limiting and eradicating plague in the United States is an herculean one. To destroy rats alone is an almost impossible task, and when ground-squirrels and other animals of a like nature have to be wiped out it would seem as if the obstacles in the way of accomplishing this object were insurmountable. The most hopeful aspect of the situation in California lies in the fact that the state and county officials, the ranchers' associations and the individual land-owners have shown a willingness to co-operate with the Public Health and Marine Hospital Service in the endeavour to exterminate rats and squirrels. The ranchers are especially willing to assist in this good work for the reason that the ground-squirrels do an immense amount of damage to the crops. Rucker suggests that it might be wise to subject the rodent population of the entire nation to a careful examination in order to discover exactly how far the infection may be spread. So far as rats are concerned, in addition to destruction of the animals on scientific lines, paying especial attention to the destruction of breeding places, the main efforts should be centralized on keeping rats out of houses. Plague now seems to be smoldering in the United States and in Great Britain, and if active and permanent steps are not taken to destroy the hosts, or at least keep them well under control, the disease may at any time again break out in most destructive form.

The United States Public Health Reports give the following table of the recent history of plague in that country:—

Place.	Date of last case of human plague.	Date of last case of rat plague.	Date of last case of squirrel plague.	Total number of rodents found infected since May, 1907.
California:				
Cities—				
San Francisco.....	Jan. 30, 1908...	Oct. 23, 1908...	None .....	395 rats.
Oakland.....	Oct. 26, 1909...	Dec. 1, 1908...	do .....	126 rats.
Berkeley.....	Aug. 28, 1907...	None recorded...	do .....	None.
Los Angeles.....	Aug. 11, 1908...	None .....	Aug. 21, 1908...	1 squirrel.
Counties—				
Alameda (exclusive of the city of Oakland).....	Sept. 26, 1909	{ Wood rat, Oct. 17, 1909.	{ Dec. 1, 1910...	{ 85 squirrels. 1 wood rat.
Contra Costa.....	July 21, 1908...	None .....	Sept. 10, 1910...	247 squirrels.
Merced.....	None recorded:	do .....	June 6, 1910...	2 squirrels.
Monterey.....	do .....	do .....	do .....	4 squirrels.
San Benito.....	June 5, 1910...	do .....	July 11, 1910...	20 squirrels.
San Joaquin.....	None recorded...	do .....	Nov. 15, 1910...	9 squirrels.
San Luis Obispo.....	do .....	do .....	Jan. 29, 1910...	1 squirrel.
Santa Clara.....	Aug. 23, 1910...	do .....	Oct. 5, 1910...	23 squirrels.
Santa Cruz.....	None recorded...	do .....	May 17, 1910...	3 squirrels.
Stanislaus.....	do .....	do .....	May 21, 1910...	5 squirrels.
Washington:				
Seattle.....	Oct. 30, 1907...	Feb. 8, 1910...	None .....	22 rats.

In India.—The principal centres in India in which plague occurred during 1910, and the deaths subsequent thereupon, were as follows: Bombay Presidency, 36,831; Bengal, 30,546; United Provinces, 144,266; Punjab, 143,416; Central Provinces, 42,104; Rajputana, 37,657; Burma, 7,605.

The following are the most recent general statistics: October 22 to 31, 1910, 5,641; November, 26,189; December, 39,604. Total deaths, 71,434, making with deaths, July to October, 22, 20,828, total for half-year, July to December, 92,262. During the first six months of 1910 the deaths numbered 360,632. Total deaths during 1910, 452,894.

It would appear that the recrudescence of plague in 1911 has begun in a more virulent form than in 1910. In January, 1911, the deaths from plague in India



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numbered 75,468. This is a higher figure than in 1910, when in January the deaths amounted to 51,437. In February there were 43,503 deaths, while this month the deaths from plague in India have reached the total of 95,884.

In Mauritius.—From November 10 to December 31, 1910, the fresh cases of plague in Mauritius numbered 328, and the deaths from the disease amounted to 188, making for the whole year 1910 a total of fresh cases, 667, and the total deaths from the disease, 442.

In January, 1911, the fresh cases of plague in Mauritius amounted to 95, and the deaths from the disease amounted to 61.

During the weeks ended February 8 and 15 the fresh cases were 4 and 6 and the deaths 3 and 5 respectively.

In Hawaii.—Last case of human plague at Honolulu occurred July 12, 1910. The last plague-infected rat was found at Aiea, nine miles from Honolulu, April 12, 1910.

At Hilo the last case of human plague occurred March 23, 1910. A fatal case occurred at Honokaa, 60 miles from Hilo, December 17, 1910.

The last plague-infected rat was found at Piihuona, four miles from Hilo, April 9, 1910.

In Trinidad.—There were two cases of bubonic plague last month, both fatal.

In Brazil plague has occurred again within the last few weeks.

In London, England, a death occurred from plague on October 18 last, and one on October 19, both from vessels from Bombay.

In Malta a case also occurred in the quarantine station on Comino island, from the ss. *North Wales*.

Japan has adopted the following precautions against plague:—

Vessels arriving at ports in Japan from foreign ports are inspected at the marine quarantine stations of Yokohama, Kobe, Moji, Nagasaki, Hakodate, Karatsu, Suminoe, Kutchinotsu, Kagoshima and Nawa, and by the local authorities in other open ports. If deemed necessary upon inspection such measures as disinfection, detention, and the examination of rodents are taken. It may also be noted that since 1899 a prohibition has been placed upon the importation from Chinese ports into Japan proper of such articles as are liable to be infected with plague germs, namely, rags, old cotton, old clothes, old paper, old hides and leather, old feathers and furs, old carpets and old gunny sacks. The extermination of rodents, bacteriological examinations, prevention of rodents from invading dwelling houses and warehouses, the sanitation of landing places and localities in their vicinity, medical examination of stevedores and other labourers employed in connection with vessels arriving from infected regions, and other measures for the prevention of the introduction of plague are strictly enforced throughout Japan. In consequence of the necessity for carrying out these measures more rigorously and for taking further measures required by the present conditions, the Home Department from time to time issues special notices. Inspectors are occasionally appointed to report on local conditions and to supervise the authorities in charge of sanitary measures.

Plague in Suffolk, England.—England was startled in September last by the discovery that a pneumonic plague, even deadlier than the bubonic plague, was established in Suffolk. A child in the village of Freston died on September 16. The mother and father and a neighbour, who had helped nurse the child, all died within a few days. The illness was then diagnosed, but was considered so malignant that even neighbours were isolated in hospitals. There has been no other case as yet,

but a number of hares and rabbits have been found dead all over the countryside. The true nature of the disease was then established. Official notice was posted calling the public to assist in the destruction of rats, which must not be touched with the naked hand, and also warning everyone not to eat hares or rabbits killed in the district. The introduction of the disease is attributed to plague from Odessa grain vessels. The local government board sent inspectors to organize the local authorities in a campaign for the total extermination of rats in the peninsula of Suffolk, which is inclosed by the rivers Orwell and Stour. An army of professional rat-catchers from all parts of the country was engaged, while the villagers were busy with guns and traps and poison. Thousands of rats were killed daily, while hundreds are being found dead of the plague. The authorities are determined upon the complete extinction of rats in the district. The land owners are burying all the hares and rabbits shot on their estates, which the people everywhere refuse to eat. The panic has grown to such an extent that even pheasants, partridges and grouse shot in the neighbourhood are refused as gifts. The pneumonic plague is the most infectious and most fatal of all types of disease. It corresponds with the black death, which from 1348 to 1369 desolated the world from China to Ireland, destroying one-third of the whole population of England.

After frequent recurrences during several centuries, ending with the great outbreak of plague in 1664-1679, the disease disappeared from Great Britain for more than 200 years. In 1894 it became prevalent at Hong-kong, and since that time it has spread from Asia into various parts of Europe, America, Africa and Australia. In 1900 and in two subsequent years small outbreaks have occurred at Glasgow, and one or more cases have also occurred at Liverpool, Cardiff and Leith during the last ten years.

Dr. Brown, of Ipswich, gives the following details in the *British Medical Journal*:—

Much interest has been aroused by the recent death of four people from pneumonic plague at the village of Freston, four miles from Ipswich, and the subsequent discovery that the disease is fairly widely spread among rats and other rodents in this part of Suffolk.

On September 13 a little girl of nine, living with her mother, stepfather and two or three other children in a small cottage at Freston, became ill. Vomiting was the first symptom. On the 14th she was seen by Dr. Carey of Holbrook, to whom I am indebted for notes of this and the succeeding case. At his first visit Dr. Carey found a temperature of 105°, but no signs of pneumonia. On the following day, September 15, bronchial breathing was detected at the base of one lung. She had been delirious during the night before, but not in the day, though rather drowsy. During the following night the cough was somewhat troublesome, and there was vomiting and diarrhœa.

She died on the next day, September 16. The temperature throughout had been 105°. She was nursed by her mother, Mrs. C., and was buried on September 20.

On September 21 Mrs. C., the mother, was taken ill. She got up as usual on that morning, but complained of headache and a feeling of sickness.

Next day, September 22, Dr. Carey was sent for. He saw her at three p.m. He found a temperature of nearly 105°, rather rapid respiration, and crepitant râles at the bases of both lungs.

During the night of the 22nd there was vomiting and diarrhœa.

On the 22nd she was seen by Dr. Carey at 10 a.m. She was almost pulseless, respiration laboured and gasping. He sent to ask me to see her in consultation with him, but she was already dead when I arrived at about 12 noon. I took away some sputum for bacteriological examination. The sputum was brownish in colour, as though tinged with anchovy sauce, and did not at all resemble ordinary pneumonic sputum.



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I gave the sputum to Dr. Heath for examination, who reported that it contained pneumococci and Gram-negative diplobacilli in large numbers.

On the 26th G. C., the husband of the last patient, and Mrs. P., who had nursed her during the night of the 22nd, were both taken ill. Dr. Carey informed me of the occurrence on the 27th, but as I was unable to visit them that evening I asked Dr. Heath to go instead. He saw G. C., and obtained some blood from the ear for examination.

On the 28th I visited both patients in consultation with Dr. Carey and Dr. Sleigh, and took a syringe of blood from the basilic vein of G. C., and fluid from puncturing the pneumonic lung in the case of Mrs. P. This material I gave to Dr. Heath, who made cultures in agar and bouillon and prepared films.

The films, especially those from the pneumonic lung, showed very numerous bacilli, identical with plague bacilli, with the typical bipolar staining, and the cultures in bouillon, the characteristic 'stalactite' growth. The cultures and films were at once submitted by Dr. Heath to Professor Sims Woodhead, of Cambridge, who confirmed his diagnosis, and later to Professor Klein and Professor W. G. R. Simpson.

The course of the disease in these two cases was as follows:—

G. C., who was a farm labourer, started to work as usual on the morning of September 26, but complained of backache and 'feeling bad.' He attended his wife's funeral on that day and then went to bed.

On September 27 he was seen by Dr. Carey. Head flushed; temperature 103°. He had not vomited, and there were no signs of mischief in the lungs. A nurse was sent from Ipswich on this evening.

On September 28 I saw him with Dr. Carey. He was very flushed and rather drowsy and lethargical, but complained of no pain. On examination of the lungs, I found no dullness or bronchial breathing, but moist crepitant râles over both bases. During the night his temperature was 104° or 105°. He slept at intervals, took nourishment well. He complained of thirst, and of feeling drowsy, but had no pain. There was slight cough and some expectoration. Pulse about 120. Respiration from 30 to 40. He perspired freely. There was no diarrhoea or vomiting.

On the 29th his condition was much the same; temperature a little lower. There was no loss of consciousness or marked change until three minutes before death, which took place at seven p.m.

Mrs. P., the neighbour, who had nursed Mrs. C., was taken ill on the morning of the 26th.

In her case pneumonic symptoms were prominent from the first. She had a high temperature from the commencement, and on the 27th there were obvious signs of pneumonia on the left lung.

She was treated by Dr. Sleigh, of Holbrook.

A nurse from Ipswich took charge of her and G. C., on the night of the 27th. She complained of severe pain on the left side of the chest, near the angle of the scapula. The left side of the face was very flushed. She lay generally on her right side. She coughed very little during the night, and there was no expectoration. Temperature from 103° to 104° F. No delirium; no diarrhoea or vomiting.

On the 28th I saw her with Dr. Sleigh at 11.30 a.m. The respiration was about 50, laboured and rattling; pulse 130, very compressible. Face livid. There was dullness to percussion over the left back, as high as spine of scapula, and bronchial breathing. There was also dullness and signs of consolidation at the extreme right base.

During the night of the 28th she complained of severe pain in the left side. Vomiting and diarrhoea came on at very frequent intervals till death, which took place on the morning of the 29th.

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There had been no loss of consciousness and no delirium. Some cough, but not much expectoration. Temperature 105.6° F. before death.

In all four cases death occurred after a short illness, in only one as late as the fourth day. In all cases there was definite evidence of lung congestion, although in only one was there extensive pneumonic consolidation; and in all except one there was diarrhoea and vomiting before death. The temperature in all was high, from 103° to 105° F. or over, and they were conscious throughout, almost up to the moment of death.

The characteristic bipolar-staining bacilli were found in the sputum of the second case, in the blood of G. C., and in the fluid from the lung of Mrs. P. In this last they were exceedingly numerous.

When the nature of the disease was determined, all who had been in contact were isolated, and the cottages thoroughly disinfected. There have been no fresh cases since.

As numerous rats and some hares and rabbits had been dying in the neighbourhood, two rats and a hare were sent to the Local Government Board, and submitted to Professor Klein for examination. In each the presence of plague bacilli was proved.

Many rats and other animals have been since examined by Dr. Heath and others, and it is evident that the infection among these animals is fairly widely spread; but owing to the energetic measures which have been and are still being taken, it is hoped that the disease may be stamped out.

In working amongst cases of the pneumonic form of plague, the wearing of a respirator is recommended. And with the bubonic form, and in working for rat destruction, the oiling of boots and leggings with coal oil, as well as the wearing of gloves, has been adopted to lessen the risk of infected fleas infecting the workers. Moreover, the Health Officer, Government of Queensland, suggests a dose of sulphur daily, and says, 'I have been in the habit of dealing out a ration of sulphur to the rat gang during plague times.'

Professor Kitasato recently stated in a lecture that the characteristic feature of the pneumonic plague as now present in Manchuria consists of the freedom from infection of the nearly 20,000 rats so far examined. This seems to lead to the deduction that neither rats nor rat fleas have played any part in its spread; and that the infection is contracted through the respiratory organs by coming in close contact with plague victims, and by sputa. If this be so, the troublesome question of dealing with rats may be eliminated as far as the pneumonic form of the disease is concerned. And what would be essential would be the discovery of the appearance of new cases at the earliest possible moment in order to isolate them, together with their contacts for medical surveillance for a proper time. Prof. Kitasato stated that pneumonic plague cannot be transmitted through the air, as plague organisms cannot float in the air except after they have dried up and become innocuous.

The local sanitary department gives a total of 31,432 plague deaths in Manchuria to March 10. Of these, 1,656 occurred at Mukden.

Conditions in Mukden and other towns in south Manchuria continue to show improvement, and there appears to be a considerable revival of business. The cart traffic between the interior and the different grain markets along the railway and the river, which was interrupted by the plague epidemic, is now, according to Public Health reports, being resumed.

*Asiatic Cholera.*—Since my last report this disease has been reported in the following countries: Arabia, Austria-Hungary, Bulgaria, Ceylon, China, Denmark, Formosa, France, Germany, Hawaii, India, Indo-China, Italy, Japan, Java, Korea, Madeira, Morocco, Persia, Philippine Islands, Russia, Siam, Straits Settlement, Sumatra, Tripoli, Turkey and Turkey in Asia, as well as at quarantine stations in the United States and in Canada.

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The unusual prevalence of cholera in Russia and in some parts of southern Europe in the autumn of last year makes it a matter of no little interest and importance to review the present position in the light of the histories of previous epidemics. During the nineteenth century Asiatic cholera spread from India to Europe on no less than six occasions.

It is considered probable by historical students that Asiatic cholera has existed as an endemic disease in the delta of the Ganges for centuries. From this endemic home the disease became epidemic in neighbouring districts, and we have positive evidence of epidemics of Asiatic cholera in Goa (1543), Pondicherry (1768), Calcutta (1781), and other parts of India. In the nineteenth century the disease first assumed pandemic proportions and spread from India over Asia, Africa, Europe and America.

In 1817 the disease spread over all of India and during the period from 1817 to 1837 had become a world disease and a world problem.

Since 1817 six distinct pandemics of cholera are distinguishable:—

First pandemic. . . . .	1817-1823
Second pandemic. . . . .	1826-1837
Third pandemic. . . . .	1846-1862
Fourth pandemic. . . . .	1864-1875
Fifth pandemic. . . . .	1883-1896
Sixth pandemic. . . . .	1902-1910

The sixth pandemic, which may be said to have persisted up to the present time, began in 1902, and spread through farther India and China to the Philippines. In 1903 it spread as usual by way of Afghanistan, Persia and Arabia, to Egypt, Syria, Palestine, Asia Minor and the Black sea. In 1904 it followed the caravan routes from central Asia to Baku and the lower Volga. During 1905 it spread over eastern and southern Russia and Poland, and in the same year it appeared in east Prussia, introduced from Russia by raftsmen on the river Vistula. No great spread of the disease has occurred in the German empire, because of the constant vigilance exercised by the German sanitary authorities and because of the vigorous and thorough prophylaxis employed, although the continued persistence of the disease in Russia has furnished Germany new infection almost yearly. The presence and spread of cholera in Italy, a country from which we receive many immigrants, makes the menace of cholera more direct and threatening than at any time since 1892-3.

In one of these epidemics over a million deaths are stated to have occurred in Russia alone, while 53,000 deaths were recorded in England. In the earlier epidemics the disease, as a rule, spread overland through Afghanistan and Persia to south-eastern Russia; thence it overran Europe and was usually carried also to the Western Hemisphere. The third epidemic, however, spread from western India through the Persian gulf, while a fourth was carried by sea from Bombay to Mecca, and invaded the south of Europe through Mecca.

At the present time the oversea routes are so carefully safeguarded that the danger of the spread of cholera in this way is much diminished. On the other hand, the more common overland route is much less easy to control, while the increased rapidity of communications, due to the steady progress made in the construction of railways, has added considerably to the liability of Europe to invasion by cholera. The first great European epidemic of which we have accurate records originated in Bengal in 1826, reached Arghanistan in 1828, and Persia in the following year. As it did not invade European Russia until 1831, it took five years to cover this distance. In 1867 cholera broke out among the Hurdwar pilgrims in April, was epidemic in Afghanistan in July, and reached Persia by the end of the same year. In 1868 it was very widespread throughout Persia, and reached Russia during the following year. Again, in 1892, the disease followed the same route. Beginning at the Hurd-



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war fair in March, it reached Afghanistan and northeastern Persia in May, the south of Russia, by way of the Trans-Caspian railway, in June, and Hamburg in July. This outbreak thus spread from India to Europe in as many months as the 1826-31 epidemic took years to cover the same ground, so greatly had the construction of railways altered the pace of communications. During the next ten years Europe escaped any serious visitation by cholera, but in 1904 the disease reappeared in southern Russia along the course of the Volga, the artery through which the disease usually enters Europe by the overland route. It recurred in 1905 in the same country. Again in 1908 cholera was unusually prevalent in India, and reached Russia in the autumn. In the following year it was again widespread in Russia, and 6,000 deaths were recorded by the end of August; a small outbreak occurred in Holland. During last year the disease assumed epidemic proportions in Russia, nearly 200,000 cases and 90,000 deaths having been reported by the end of September, or nearly as many as occur in the whole of India in some years. A serious outbreak also took place in Italy, causing 1,000 deaths in the Naples district in September. Turkey was widely affected in the autumn months; the disease also broke out in Portugal, while Madeira was severely affected a little later. Thus by the end of 1910 cholera was more widely spread in Europe than at any time since 1892, and southern Europe was affected to a greater extent than in any year subsequently to the invasion from Egypt in 1884. The position last year is also very similar to that in 1870, which was followed in the next two years by widespread cholera in Europe and subsequently in the United States.

During the last forty years only sporadic cases have occurred in England, the system introduced by Simon of inspecting all vessels arriving from infected ports, isolating suspicious cases and keeping a watch on the remainder wherever they went, having proved very satisfactory in preventing cholera from gaining a foothold in this country, while not interfering to any serious extent with trade. Since that time the sanitary condition of English towns, especially as regards water supply, has been so greatly improved that there need be little fear of any serious outbreak in Great Britain during the ensuing summer. Unfortunately, the same cannot be said of Russia and some of the southern parts of Europe. As is usual, there has been a marked lull in the disease during the winter months; but if history repeats itself, there is good reason to fear a recrudescence of the disease in the hot months of this year in those parts of Europe which suffered last autumn, and grave danger of the extension of the infection to other areas. The comparative mildness of the past winter makes a recrudescence of the disease all the more likely. As we have previously pointed out, when the Medina Mecca railway is completed and hosts of pilgrims are rapidly carried to Turkey, the invasion of Europe by cholera will be still further facilitated.

We have, then, two opposing factors in operation at the present time. First, increased rapidity of communications, especially overland, bringing the infection of cholera more frequently into Europe; and secondly, improved sanitation, tending to lessen its ravages. Unfortunately, the latter factor is least in evidence in just those countries which are most liable to be first attacked, and to become foci from which the disease may spread further west. Fortunately we now possess very definite information concerning the modes of spread and usual vehicles of infection of this once greatly dreaded malady. It is, for example, an incontrovertibly established fact that a sewage-contaminated water supply is responsible in practically all cases for the epidemic prevalence of cholera. Scattered cases of the disease may occur in a city with a pure water supply, but no general and widespread infection need be feared so long as the water supply remains uncontaminated.

An interesting epidemiological fact is the variety of circumstances which explain the abatement of complete disappearance of cholera during the winter, such as the decrease in the use of river water for such purposes as drinking, bathing, &c.; the lower temperature, which is unfavourable for the propagation of vibrios both in

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water and elsewhere; the diminution of traffic, and the far smaller quantity of raw fruit which is consumed during the winter months. But that the cholera germs do remain alive during the cold weather is an established fact, and with the advent of summer they begin to propagate once more on a larger scale; and should their virulence increase and circumstances be favourable, another epidemic may break out. Moreover, the vibrios may remain alive for over three months in the excrements of cholera patients. But one question remains to be solved. What happens to the vibrio when the cholera is really in a dormant state? Does it actually die, or does it by losing its virulence become an innocent bacillus which cannot recover its pathogenic properties in our climate? It is equally important to discover whether, in places where the cholera is endemic, the vibrios live permanently in the human body or outside it. Serumtherapy has hitherto been useless in cholera since, although serums do kill bacteria the infected body does not in consequence of this get rid of the poison contained in the vibrios; and the serums called antitoxic have been proved to be only vibrio-killing. Recent investigations seem to show that inoculation by means of dead vibrios is an efficacious method of prevention. From the epidemiological standpoint it is most important to realize that the cholera vibrio may exist for days, even for a fortnight, in the intestines, not only of persons who have recovered from cholera, but also in quite healthy subjects. Although the vibrios of such 'vibrio-carriers' are not very virulent, and such people are not so likely to spread the germs of cholera as are genuine cholera patients, there can be no doubt that the former are capable of disseminating cholera. It is quite possible that of the people about a cholera patient five to seven per cent may be bacteria carriers, and yet appear perfectly healthy. The germs may also be carried by flies, in which, it has been proved, the vibrios may exist for days and may be inoculated into food. This is an important point if we remember that in the summer vibrios propagate most luxuriantly in foodstuffs.

Jacobsen writes from the Serum Institute at Copenhagen to relate the results of tests to determine how long cholera germs will survive in salt water in ship ballast tanks and also in tanks after they have been thoroughly rinsed out with sea water and filled anew with non-contaminated water. The vibriones were found alive in some of the tests up to 47 days, showing the danger from this source if a ship, for instance, fills its tanks with harbour water at St. Petersburg and reaches its destination in less than this number of days. The tests further showed that flushing the tanks with fresh sea water is not sufficient to free them from cholera germs lurking in the slime and crevices. The last epidemic of cholera in Holland and Belgium, he states, was traced to infected water taken from the river at St. Petersburg and brought in the ballast tanks to the other countries. The tests made during the summer showed a comparatively brief survival of the germs, from seven to seventeen days, the presence of other microbes, more prevalent during the summer, probably checking the growth of vibriones.

Cholera first appeared this year in Russia last May, and by the end of July had spread to forty-two provinces and territories of European Russia, accompanied by an unusually heavy mortality. The figures available at the Sanitary Bureau show that during the present cholera epidemic there have been 191,076 cases, with 88,716 deaths, throughout the country. Since then there has been little check to its progress in Russia, latest reports recording more than 100,000 deaths. As early as June 24 a Russian workman died of the disease at Ruhleben, near Berlin, and there have been several other cases in Germany and Austria.

In August the cholera crossed the Adriatic to Bari, and soon extended over the coast of southeastern Italy, whence it has spread to Naples.

The recent outbreak of Asiatic cholera in Russia caused general alarm in Austria in October, on account of the close commercial relations which exist between the two countries. The common frontier line between Russia and Austria extends for over 250 miles, and as it frequently happens that members of the same family



dwell on either side of it, the strictest precautions are necessary to check any importation of the disease. According to the latest rules laid down by the Board of Health, not only must all persons crossing the Russian frontier into Austria submit to an eight days' quarantine and all goods imported from Russia be disinfected, but the importation of any article of food from the zone of infection is also absolutely prohibited. A special commission has been sent to each cholera centre in Russia, with the object of reporting on the spread of the epidemic and the measures taken to check it.

The sudden outbreak of cholera which occurred in Hamburg in 1892, and which attacked about 17,000 persons and carried off 8,600, might well have been predicted by sanitarians on the basis of the known facts regarding the entrance of sewage into the river water from which Hamburg obtained its supply, and the significant prevalence of typhoid fever in that city. So, too, at the present day, if cholera should become at all widely distributed in this country, we could predict with a high degree of certainty those sections of the country, and even the communities, that would suffer most severely. Cholera in even greater proportion than typhoid fever is a water-borne disease.

Almost any article of food or drink may occasionally serve as a medium for conveying cholera infection. Of course such substances as milk, vegetables and fruits consumed without cooking are to be regarded as particularly dangerous, but any food handled or kept under uncleanly conditions may be the means of introducing cholera vibrios into the intestine. Flies fed with cholera-infected material have been found to contain the vibrios in their intestines for as long as fourteen days.

'Cholera carriers' have been shown to exist in the persons of healthy individuals resident in districts where the disease prevails. There seems no doubt that cholera spreads from locality to locality not by bales of merchandise, but by the carriage of the specific germ in the body of man himself. Dunbar has stated that in the Hamburg epidemic of 1892-93, he was able to detect the cholera vibrio in no fewer than twenty-eight persons who were entirely healthy and had never manifested any symptom of cholera or had suffered the slightest attack of diarrhœa.

Attention to the ordinary demands of civilization, the elimination of sewage from our water supplies, the insistence on clean milk and bread, the banishment of the common drinking cup and the roller towel, the extermination of the house-fly and other vermin, the observance of a decent degree of cleanliness in the streets and in the house—such measures will go far to avoid the danger of cholera epidemics now and henceforward.

Cholera has been more prevalent in parts of Europe the past season than for many years. The disease, furthermore, is widely distributed, and many ports having important commercial relations with this country have been infected. It does not seem improbable that in 1911 a still further extension of the disease will occur. More cases may reach our Atlantic ports, and it is by no means unlikely that some healthy 'carriers' may escape detection and introduce the disease.

It is not possible, nor is it especially important, to determine to what degree the relatively slight alarm over cholera shown at the present time is due to just confidence in the increased wholesomeness of our public water supplies. Other factors, such as the increased efficiency of the national and local public health service and our more complete knowledge of the ways and means by which cholera is spread, certainly are taken into consideration, or at all events should be. The fact remains that we can now soberly face the possibility that a person harboring cholera vibrios may land in a seaboard city. We have no reason to show either unconcern or hysterical fear at the event.

As Professor Roseman points out, cholera has a way of its own, all its own. Like other things that are oriental, it is peculiar. It smoulders for years in certain parts of the world and then breaks loose from its confines, marches along the lines of

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trade and travel, and threatens to become pandemic. This has happened in the history of cholera a number of times, and as far as we are able to see we are at present confronted with such a pandemic. While we understand the cause of cholera pretty well, and realize its mode of spread, we do not know why it acts in this particular way. It is just like a spark in the forest or a smouldering fire in the underbrush; it may remain quiescent for some time, only burning as a little local fire, or it may threaten a great conflagration, or the wind, or the dryness, or the amount of vegetation, and the other factors, may favour the blowing of the sparks to distant parts, where secondary fires or secondary conflagrations are caused. That is very much the way that cholera acts. It is perfectly true that in some definite instances, such as those mentioned at Hamburg, &c., water has been, and probably will again be, the vehicle through which the specific cause of cholera is spread, but for the most part, in cholera, just as in typhoid fever, more cases are spread through what is known as contact, through fingers or flies, &c., than through water.

*Cholera Carriers.*—The recognition of cholera carriers and the rapidity of modern communication has introduced a new factor into questions of epidemiology, and active and keen as are our port medical officers, it is not to be expected that they will always succeed in keeping persons infected with cholera, plague, and like diseases, from landing except in quarantine. The incubation period of cholera is so short that the probability of any person suffering from it getting ashore is not very great; but, on the other hand, the presence of a cholera carrier is always a possibility. The fact that some people are capable of carrying about the cholera vibrio in their intestines without suffering from the disease themselves was pointed out, we believe, by Professor Simpson in his book on the 'Principles of Hygiene' several years ago, and the outbreak last year which produced so much loss of life among the nurses at the European Hospital in Calcutta was believed to be traced to cholera carriers among the native servants of the hospital.

Fortunately, bacillus carrying is not as frequent in cholera as it is in typhoid. In typhoid from two to four per cent of all persons who recover from that disease continue to shed the bacilli, and thus become chronic bacillus carriers. We do not know the exact percentage in cholera, sufficient data not having been accumulated upon that subject, but from all the work that has been done we do know that within a few days, usually four days after symptoms have ceased, the specific organism disappears from the discharges. We also know definitely that people in perfectly good health, corresponding in all respects to the typhoid carriers, may shed the cholera organism, so that the danger, while less, nevertheless exists.

In Italy the announcement of the presence of Asiatic cholera, August 17, came as a surprise. There had been no disturbing rumours, although the cholera situation in the Black Sea provinces of Russia had become disquieting.

Reliable information gives the cause of the outbreak as the debarkation at Brindisi of a party of Russian gypsies from Batum, who proceeded by rail to Trani, which is to be regarded as the primary focus of the epidemic. Whether any of the wanderers were ill upon arrival admits of doubt; but it is certain that arriving in Trani they washed clothing in vessels used for drawing water from a well, and in due course there followed cases of choleriform disease, the nature of which was not immediately recognized, and which were regarded by the authorities as 'grave gastrointestinal disturbances.' The infection spread to various towns and cities in the provinces of Bari and Foggia, both in the region of Apulia.

The town of Trani has up to this time suffered most severely, and it is to be regarded as the primary focus of infection, the outbreak partaking of the characteristics of a water-borne epidemic.

In Naples, in the last part of September, the epidemic of Asiatic cholera assumed such alarming proportions that it was officially recognized, and official notification of

its presence was sent from Rome to the nations adhering to the International Sanitary Convention.

All foreign steamship lines suspended the taking on either passengers or freight.

On October 30—no case of cholera having been reported during the previous seven days—Naples was declared exempt from that disease, in accordance with the Convention of Paris, and the powers adhering thereto were duly notified to that effect.

Madeira was infected with Asiatic cholera, apparently early in October, when the disease was brought there by a mail steamer. But although the first cases appeared a few days thereafter, the cholera bacillus was not found until November 28. Up to January 15, 1,646 cases of the disease and 535 deaths were reported, a mortality of somewhat over thirty per cent. About half the cases were in the town of Funchal.

Funchal, the capital of Madeira, is an important port of call for steamships. It has telegraph lines to Lisbon and Brazil, two banks, several newspapers, several public buildings and well paved but very narrow streets. There are two Anglican churches, one Presbyterian and several Catholic churches. It is the see of a bishop. Its eighteen or twenty thousand inhabitants are largely increased during the winter by tourists.

In London, England, in November, the bodies of three rats found dead in the docks showed upon examination that they had died from cholera infection. They were believed to have been brought on an Italian ship from the cholera-infected regions about Naples.

In Japan, at the marine quarantine stations at Nagasaki, Moji and Yokohama, cases of cholera have been found since August last on vessels arriving from Shanghai. Special attention therefore was paid to vessels arriving from that port, and strict precautions were taken. In September some boatmen employed on lighters in the port of Kobe were attacked with cholera. Other boatmen who had come to Osaka from Kobe in lighters were also attacked by the disease. Osaka and Kobe have since become the centre of the cholera epidemic. The disease has spread to various localities, there having been at one time as many as 100 new cases daily in one locality. The epidemic has, however, gradually subsided, and at present there are only a few new cases occurring daily in the entire country. It is therefore confidently hoped that with the strict enforcement of preventive measures the epidemic will soon be stamped out.

Honolulu.—The cholera outbreak was officially declared to be ended on the 20th instant, but quarantine and other special precautionary measures will be continued until the sanitary work for which the legislature appropriated \$50,000 is completed. There were 27 cases of cholera in this outbreak in Honolulu, of which 21 proved fatal.

New York.—Several cases of Asiatic cholera were found on steamships arriving at New York, in four vessels at least. In every instance the disease was stamped out at quarantine.

The Public Health reports give the following details of precautionary measures enforced by the United States Government:—

‘A request was made of the honourable the Secretary of State, through departmental channels, on July 14, 1910, that instructions be issued to United States consular officers at Hamburg, Bremen, Antwerp and Rotterdam, and the continental and British ports, to detain steerage passengers from cholera-infected districts in Russia, and to disinfect baggage prior to embarkation for the United States. This request was made on account of the recent reports and prospect of spread of cholera in Russia in Europe. It was requested that the various consular officers at the ports above be instructed to enforce the provisions of paragraphs 30, 31 and 32 of the Quarantine Regulations of the United States, 1903, which provide that steerage passengers and crews should be detained five days in suitable houses or barracks located where there is no danger from infection, and all baggage should be disinfected, and that cabin passengers coming from cholera-infected districts embarking at clean



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or infected ports should produce satisfactory evidence as to their place of abode during the five days immediately preceding their embarkation. To this request a reply, dated July 20, 1910, was received from the Department of State containing the information that the desired instructions had been sent by cable to the consular officers mentioned.'

The detention includes five full days of observation; this in addition to the five days spent in the control stations.

The hand baggage of the emigrants is opened and inspected under the supervision of the consul-general, and undesirable foodstuffs are removed. All baggage of Russians and all soiled clothing not bearing a label showing that they have been disinfected are reinfected by steam. This rule has resulted in the elimination from the baggage of emigrants of a great deal of soiled clothing.

If these five days have passed uneventfully (five days covering the period of incubation in the great majority of cases), they are then permitted to embark, however again being carefully examined at the time of embarkation. They are under the eye of the surgeon during the voyage, and upon arrival both the master and the surgeon of the vessel must certify under oath that no case of diarrhoeal disease has occurred on the voyage. At the port of arrival, we will say Boston, they again meet another barrier, where the quarantine officer again carefully examines all the personnel on board the vessel for cases or suspected cases, and finally, if everything is all right and they are permitted to land, the commissioner of immigration, through a plan that has been promulgated from Washington through the Public Health and Marine Hospital Service, requires the commissioner of immigration to send the names of these immigrants through the state boards of health to the state to which these people are going, so that each state may keep track of these various immigrants. If anything happens, the health authorities are thus in possession of important information, and are able to take proper measures so as to nip any growing infection in the bud.

Quebec, Que.—A case of Asiatic cholera presented itself on November 17; the first case of this disease since its coming to the St. Lawrence quarantine in the year of the Hamburg cholera epidemic, 1893.

Upon receipt of telegraphic information of the arrival of this, you directed me, as your senior public health officer, to go to Quebec and the Grosse Isle quarantine station and take charge of the situation. This I at once did.

The history of the patient as given me by himself, as far as the facts prior to his arrival are concerned, is as follows:—

Poulick (or Godlieb) Seide, aged 30, left his home in the village of Michelsdorf, in the district of Vlodawski, in the province of Szedista, in Russia, on Tuesday, October 18, 1910. He persistently asserted that there was no cholera whatever or anything resembling it in the country at or near his home in the village above named. He drove by team from his home to the town of Wlodawa, thence went by rail, two days' journey, to Libau. Had with him in a basket, bread, sugar, tea, boiled meat. Bought fruit at stations on way to Libau. At Vrifcz bought four apples; ate them, and drank some beer. Had only the basket with above provisions; and three shirts, bought about a fortnight before in the village store of Israel, at Michelsdorf; also one towel or handkerchief.

In Libau he spent one day and one night at an emigrant boarding house; to which he was conducted by the agent of the steamship line. In this house there were also at the time some thirty more people, Russians, Jews and others. He was examined by a doctor, and passed; his eyes having been looked at, and the skin of his forearms. His clothing and basket were not disinfected.

From Libau to London on a small Danish steamship eight days. No stoppages.

In London met by a team and taken to emigrant boarding quarters. Many nationalities. Was there eight days. Thence by bus to depot; on train two hours to Bristol, where he directly boarded the steamer.

Was quite well during first three days of the voyage, except a little seasickness. Fourth day was stormy, he vomited, and was very thirsty. During first three days, one stool a day. On fourth day no appetite, no stool. Fifth day had no vomiting, but drank continually. Stools, one or two. Sixth day (third of sickness), the same; no appetite, great thirst, no vomiting, two loose stools; no cramps in stomach, pains in arms and legs which lasted till he reached Québec. He vomited only once, and that was on the fourth day. He had diarrhœa until he arrived at Quebec. He had no retention of urine. He had two chills at the beginning. Ate almost nothing but some of his own bread.

On the Danish steamer and in London he seems to have eaten the food prepared for him; but when he was ill on the *Royal George* he seems to have eaten and finished the bread which he brought with him in his basket. He had a friend, Gustav Yanke, from his own neighbourhood, who also had some provisions with him.

On arrival at Quebec at 9 a.m., on Thursday, November 17, Seide's temperature was 102.9. At 2 p.m. it was 103.1. These temperatures were taken by Dr. Bailey, the United States immigration officer, before the ship was sent back from Quebec. The temperature of the patient when he was landed late that evening at quarantine was 101.2. On Friday, the 18th, his morning temperature was 101; his evening temperature, 102.2. He had one stool. On Saturday, the 19th, his morning temperature was 101.4; his evening temperature, 101. Two stools. On Sunday, the 20th, his morning temperature was 99.3. One solid stool. The observations that occur to one in connection with this case are as follows:—

In the first place, we have the assertion of Seide that there was no cholera or anything resembling it at or near the place from whence he came; though he knew of its existence in distant provinces. None of his acquaintances or friends or anybody in his neighbourhood or in the districts through which he passed had anything to resemble the complaint which afterwards attacked him.

The period of incubation for Asiatic cholera as agreed upon by the International Health Conferences of Vienna and of Paris, and universally accepted by all sanitarians, is five days; yet here we have a man two days from his home to the port; at least a day there; eight days from Libau to London; eight days in London, and three days well on the ship; making a total of some twenty-one or twenty-two days between his departure from his home and the appearance of choleraic symptoms.

Suspicion is thus thrown upon the food that he was bringing with him; and the rush or grass basket in which were his shirts and towel, and a few crumbled remains of bread, were sent to Professor Adami to endeavour to establish whether or not they have been the cause of the mischief. It will be noted that in Seide's report of his proceedings, he states that he did not use his own provisions on the Danish steamer, and that he did eat some of his own bread when his appetite failed at the beginning of his sickness. It may therefore well be that in the transition from the cooking on the Danish steamer, which would more or less approximate to his own, to that of the boarding house in London, he may have found the English cooking less to his taste, and been therefore driven to the consumption of the food that he had brought with him. If that was contaminated, it would account for the late appearance of the attack. The only other explanation is that Seide was (and is) a 'cholera-carrier.'

The case was a mild one, Seide never having reported himself to the ship's surgeon, and he remained up and about all the time, and walked ashore at Quebec with the other passengers.

The clinical picture of the patient Seide on and after arrival is as follows:—

Anxious expression, with pinched nose and cheeks, and lips blue. Temperature at 7.30 a.m. is 103. F. Weak, thready pulse of 138, and he complains of abdominal cramps and intense thirst. He says he has been unable during the five preceding days to retain any food in his stomach except a few bits of bread that he and his travelling companion had brought with them from their village in Russia, and at times had no



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control over bowels' movement. At no time during the whole voyage has he eaten any uncooked meat, vegetables or fruit except the four apples purchased and eaten unpeeled between Wlodenski and Libau.

At two o'clock he had a first stool since seven in the morning, which was collected in a sterile vessel, from which specimens were sent to Dr. Adami, Montreal, and to the Hygienic Laboratory in Washington.

Some hot milk and Vichy water was fed to the patient during the day, which was retained.

When the ship left at 7.30 p.m., the temperature had gone down one degree.

When the patient arrived at the quarantine station, Grosse Isle, I examined him very carefully, and the following is what I noted:—

18th. General appearance not very good. Pinched nose and cheeks and lips blue. Good and strong pulse of 100. Gargle in the right iliac hole. No spots on the body. Skin rather subject to transpiration. Tongue moistened, trembling, and covered with a thick white coat, except the borders and point, which are red. Temperature,  $102\frac{2}{3}$  F. Had one liquid motion during the night. Night temperature,  $102\frac{1}{2}$ .

19th. Seems much better, and asks to get up. Has a good and strong pulse of 90. Morning temperature,  $101\frac{2}{3}$ ; night one,  $101\frac{1}{2}$ . Had two liquid motions to-day. All the stools collected till now have the appearance of pea soup.

20th. Seems better, but complains of headache, sore throat and pains in the shoulders. Good and strong pulse of 80. Morning temperature of  $99\frac{2}{3}$ ; night one,  $99\frac{1}{2}$ . At night complains from severe pains in the shoulders and bladder. Had a very abundant transpiration of a very strong acid smell, after which all pains disappeared. Had his first solid motion to-day.

21st. Morning temperature,  $98\frac{1}{2}$ ; night one, 99.0. No complaint of any kind except being very hungry. One solid motion.

22nd. Morning and night temperature normal. Was very hungry. One solid stool.

From that time the temperature continued to be normal and stools to be solid. The 23rd we allowed him to get up. On the 24th he had some solid food for the first time.

I found the vessel at the station, the patient landed, but any further action suspended on account of the gale that was raging. I found that although during the voyage the foreign immigrants had been separated from the others, this had not been maintained until the end, but that they had been redistributed according to destination. On account of this mixing, and the occupation by the different classes of the forward and aft steerages alike, I deemed it necessary to land all the steerage passengers, 260 in number, and to disinfect both the forward and aft steerages. The ship's hospital was disinfected by steam, the alleyways, latrines, &c., with mercuric chloride solution, and the steerages fumigated with sulphur dioxide. The vessel was then released. The landed passengers were held five days after disinfection. No subsequent case occurred; this proves the efficacy of the measures taken, the disease being confined to and stamped out at the quarantine station, as was done when it last appeared in 1893.

Specimens of Seide's excretions were sent to Professor Adami, of McGill University, Montreal, for bacteriological examination. Professor Adami, after detailing the steps and processes of his examination, gave the following as his conclusions:—

From the various characteristics, namely:—

I. The presence of abundant 'spirilla' in the preparations made from the centrifugized sediment;

II. The free growth of a curved, or 'comma' bacillus or spirillum in Dunham's medium in eight hours, this form being present to the exclusion of others;

III. The identity of this form so growing with individuals of a known and tested strain of the cholera spirillum grown similarly and for a like period in Dunham's medium;

IV. The motility of the organism thus isolated;

V. The presence of a single flagellum at one pole;

VI. The milky semitranslucent colonies developing on the surface of peptone-agar medium in 10-12 hours,—

I am forced to the conclusion that the material forwarded contained the spirillum of cholera, *i.e.*, the spirillum cholerae asiaticæ, and that the individual from whom this material or these dejectas were obtained was suffering from true or Asiatic cholera.

At the same time a specimen of Seide's excretions was sent to the United States Hygiene Laboratory at Washington by Dr. Bailey, the United States medical inspector of immigrants at Quebec. A subsequent letter to him states: 'I have to inform you that a negative report was made regarding this material by the Director of Hygienic Laboratory, the statement being made that the material was too old for a proper test for the vibrios of cholera, five days having elapsed between the time of shipment and arrival at the laboratory.'

The examination of the basket and its contents, which constituted all Seide's luggage, by Prof. Adami, proved negative in its results, except in the case of the handkerchief or towel, which may very possibly have been infected during his recent attack or exacerbation.

Since the date of these reports specimens of Seide's excretions have been sent from time to time to Dr. Vallée, of Quebec, bacteriologist at the Hotel Dieu Hospital, and at the Municipal Laboratory, who confirmed Prof. Adami's conclusions, and has continued to find the cholera spirillum in Seide's excretions up to the present time, more than four months after his choleraic attack.

The fact is thus very clearly established that he is a so-called 'cholera-carrier.' Owing probably to the quick death or recovery of cholera patients in epidemic times, no extensive researches have been made as to the continuance or persistence of the cholera spirillum in the excretions of convalescents from this disease. In the Hamburg cholera epidemic of 1892-93, Dunbar, however, discovered a typical cholera spirillum in the stools of 28 apparently healthy individuals who had never shown signs of the acute disease. In October last, also, a bacillus-carrier of this disease was detected at the New York quarantine.

The presumption would seem to be that this man had the cholera spirillum of low virulence growing in his intestinal canal for at least the three weeks between his leaving home and his attack; and that when he became depressed or had his vitality and resisting powers lowered by the increased seasickness after the bad weather sprang up on the fourth day of his voyage from Bristol, the spirillum growing and multiplying rapidly induced an attack, which though mild, bore all the earmarks of true Asiatic cholera.

*Generalizations.*—Amongst the lessons the occurrence and recognition of the possibility of cholera-carriers impresses upon us, three at least stand out clear cut and emphatic.

First: The necessity for the most careful examination of all cases of diarrhœa during cholera seasons.

Secondly: The importance of the steam sterilization at ports of arrival of hold luggage from infected countries possibly contaminated before packing.

Thirdly: The urgent expediency of a system of notification to provincial health officers inland, sent from the ports of arrival, of passengers from infected countries and infected vessels, with their destination.

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With respect to the second of these, if the threatening of cholera continues during this winter, it may be necessary to resume the work which was done in 1893-4 during the threatening of cholera from the epidemic outbreak of that disease in Hamburg. The said work consists in the steam disinfection and sterilization at the deep-water landings in the ports of arrival of hold luggage which has been packed in an infected country. The unpacking of such luggage at inland points, and the washing there of the soiled linen and clothing, often hurriedly put into their trunks by the lower class of immigrants before leaving home, would create a danger both to those who wash such infected clothing and to any who drink from streams or other water supply into which the thrown out water of the washing may percolate. The steam cylinder erected at the Quebec embankment in 1893, and through which so much of the clothing of the Russian immigrants was then passed, has been removed, and I believe broken up, under the authority of the Immigration Department. If cholera continues to threaten, I would strongly urge that either that department or our own undertake the resumption of this most necessary work.

With respect to the third, it is of the greatest importance that health officers inland should be promptly notified of the arrival of passengers from infected countries and from infected vessels, destined to come within their districts. This enables them to keep such persons under sanitary surveillance, and warns them what disease to be on the lookout for. Such a system is in use in England and in the United States. It was by my recommendation in use in this country for years, but has latterly been allowed to lapse. The provincial boards of health all ask for its revival; and it seems a thing greatly to be desired.

*Leprosy.*—From time immemorial leprosy has been held in almost superstitious horror by the laity—thanks probably to the scriptural attitude toward it; and to physicians even now it presents problems such as are encountered in few, if any, other diseases. In light of recent contributions towards its study, however, many of these problems appear to be in a fair way toward solution. It is almost two years since Clegg first announced the successful prolonged cultivation of the organism of leprosy on artificial media, and Duval since then has devised methods that make this proceeding one of comparative simplicity. Clegg's method consisted in first growing the organism along with amebas and symbiotic bacteria; after several transplantations under such conditions, the bacillus became altered sufficiently to permit growth in pure culture. Duval, however, has shown that the essential element necessary for its artificial growth is the presence in the medium of tryptophan and other free amino-acids—factors that were furnished in Clegg's experiments presumably by the action of the bacteria on dead amebas. Like Clegg, Duval found that the bacillus grew more readily after being cultivated artificially for some time. The organism was found by both investigators to be extremely hardy; it resisted a temperature of 70 C. for half an hour, and Duval and Gurd were able to cultivate it from tissues kept in salt solution at room temperature for over eight months. Nor did overgrowth with saprophytic or pyogenic organisms appear to affect its vitality in the least.

Success in animal inoculation has advanced almost equally with the progress in artificial cultivation of the organism. Clegg was able to produce, from inoculation of pure cultures, localized lesions in the guinea-pig closely resembling those in man; and Sugai showed that the Japanese dancing mouse was sufficiently susceptible to undergo systemic infection from local inoculation. Neither of these animals, however, showed a clinical picture like that in man. But Duval has recently, by successive injections of a pure culture of the leprosy bacillus, succeeded in producing in the monkey (*Macacus rhesus*) a type of disease very similar to the human form, and in reobtaining the acid-fast organism from the remote lesions.

Of considerable interest as bearing on the methods of transmission, is the fact that Duval and Gurd were able to cultivate the organism from nasal secretions in two of five cases. They also succeeded in inoculating mice by rubbing cultures of



the bacillus into their nares after gentle scarification. Taken in connection with the high resisting power of the organism, these facts would appear to speak strongly in favour of the usually adopted, though much disputed, measure of segregation.

The same investigators have taken up the serum reactions of leprosy. Amboceptor, specific apparently for the lipoid constituents of the organism, they found present in considerable amounts. Agglutinins occurred in small quantities; and the serum of leprosy patients was found by them not to differ from that of normal individuals in content of complement. Their results as to specific amboceptor are confirmed by the work of Biehler and Eliasberg, but unlike them, Eliasberg claims to have demonstrated the absence of free complement in the serum of lepers.

It will be seen that as a result of the foregoing work, Koch's postulates have now been fully carried out for leprosy. Considerable light has been thrown on the much-argued question of methods of transmission. And with means at our disposal both for obtaining *Bacillus lepræ* in pure culture, and for successfully inoculating experimental animals, further progress should be rapid. Profiting, however, by our many disappointments with tuberculosis—a disease resembling leprosy in so many respects—it will be well to guard ourselves against expecting too much in the way of effective therapy of the disease as a result of recent experimental work.—*The Journal*.

At a special meeting of the New York Academy of Medicine, held December 29 last, under the auspices of the Section on Dermatology, Dr. S. Pollitzer read a paper in part as follows:—

Leprosy existed in the Orient from the earliest time. It was probably brought into Italy by the soldiers of Pompey in the first century, B.C. It then spread over the greater part of Europe. The notion that the disease was carried by the crusaders into western Europe was without foundation. The disease existed in western Europe long before the crusades. In England the first leper house was founded at Canterbury in 1084, more than ten years before the first crusaders left that country. In Spain the first leper house was founded in 1067. Leprosy increased rapidly; by the end of the thirteenth century there were about 2,000 asylums in France and 200 in Great Britain and Ireland. Then the disease began to decline; at the time of the discovery of America leprosy was, however, quite commonly met with in Europe; while it was evidently on the wane it still existed to a considerable extent during the next two centuries, the period of the colonization of the United States. In view of the relative frequency of the disease in western Europe during the period of the discovery of this country, it seemed remarkable that there was no record of the occurrence of the disease in the early colonial period. One source of leprosy in the United States was the importation of negro slaves from Africa; most of these slaves came from the coast of Guinea and the Niger and Congo Hinterland, where the disease was to-day extremely prevalent. The first historical reference to the presence of leprosy in the United States was found in a work published in 1775, 'A Concise Natural History of East and West Florida,' by Capt. Bernard Romans. At this time the disease existed in Louisiana; it was a matter of record that the disease existed there from the time of the Spanish regime; also that in 1786 the number of leprosy beggars in the streets of New Orleans was so large that the authorities took action, and these patients were isolated in a house established for this purpose. This was the first leper house in the United States, and was in use for fifteen years, sheltering forty cases. In Louisiana there had been a notable increase in the number of cases; Dr. Dyer estimated the present number between 300 and 500. In 1815 leprosy was known to have been introduced into New Brunswick by a woman of St. Malo in Brittany; within a few years a number of cases occurred in her immediate family and among neighbours. In 1844 a lazaretto was established for these cases and, up to the present time, there had been about 150 cases in this settlement; this was during a period of nearly a century. About the year 1856 great numbers of Scandinavian immigrants settled in this country, the major portion of them in Wisconsin, Minnesota, Iowa and Dakota. Among these there were about 170 lepers; among

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their descendants it was estimated that there were about 30 cases living to-day. The Pacific coast had received a large influx of natives of the far east and the Pacific islands. China had from time immemorial been the home of leprosy. San Francisco was one of the most cosmopolitan ports of the world, and among its heterogeneous population were lepers from almost every country on the globe. In 1902, 24 living cases were reported. In 1907, Dr. Montgomery reported the histories of 33 cases which he had personally observed since 1891. Within recent years the number of lepers in Texas had assumed notable proportions. In 1902, the Marine Hospital Service reported a total of 278 cases of leprosy in the United States, more than half of these (155) in Louisiana. Of these, 176 were males and 102 females. One hundred and eighty-six cases were said to have contracted the disease in the United States. One hundred and forty-five were American born. The foreign born came from Norway (22), China (20), Germany (12), Bahamas (12), Iceland (11), Sweden (8), Ireland (6), West Indies (4), England (3), France (3), Mexico (3), Italy (3), &c. In this report 155 cases were ascribed to Louisiana, 24 to California, 24 to Florida, 20 to Minnesota, 16 to North Dakota, 7 to New York, &c. If Dr. Dyer's estimate of three to five hundred cases in Louisiana was nearer the truth than the official report of 150 cases in that state, and the estimate of 40 cases in New York nearer than the 7 given in the report, and a like discrepancy occurred throughout the list, one might conclude that the official record of 278 cases was by far less than one-half the true number of cases in this country. About ten years ago Dr. A. W. Hitt, after a careful review of the subject, arrived at the conclusion that there were about 530 lepers in the United States, and this might be regarded as a conservative estimate.

From Molokai, the island prison for the plague stricken in the Hawaiian group, word has reached Washington of an achievement accounted second only to the discovery of the lepra bacillus by Professor Hansen in 1879.

Three surgeons of the United States Public Health and Marine Hospital Service, after months of unremitting toil, have grown lepra bacilli in pure culture outside the human body. In tiny thin glass tubes in the laboratory the loathsome germs are now growing in their third generation.

Four times the scientists have artificially propagated the bacillus on beef broth, egg or the amoeba of the intestines of a guinea-pig. The work of Dr. Moses T. Clegg, who declared less than a year ago at Manila, that he had found that the bacillus could be cultivated outside the human body, is verified and extended. Dr. Clegg has been rushed from the Manila Scientific Station to Molokai to assist in the experiments.

This achievement of the scientists at the government's leprosy investigation station is the first step in the production of a vaccine or a serum for the cure or prevention of leprosy. It is hoped a leprosin to detect the disease in its early stages may be found. Precisely the same ground has been covered by the men who evolved the diphtheria anti-toxin and the serum for tetanus. In each of those cases the growing of the germ in pure culture has been the stepping stone to the cure.

Dr. Donald H. Currie, director of the station; Dr. Walter R. Brinkerhoff and Dr. H. T. Hollmann are the scientists who have grown the cultures. After four months careful work they were about to give up, defeated, and tubes containing the specimens were about to be destroyed, when one of the physicians determined to make a last inspection of the cultures in a forlorn hope. To his astonishment he found the germ living. The discovery spurred the investigators to new effort, and back over the trail they had covered so often they worked again.

Dr. Clegg had found that by feeding the bacillus of cholera to the amoeba the lepra bacillus did better. That was supplemented by gelatine, beef extract and eggs, and within three weeks the searchers were rewarded again with the living germ. Dr. Currie obtained a pure culture, which means he has eliminated the amoeba and the cholera bacillus, and now has the lepra bacillus propagating of itself.



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Dr. Brinkerhoff has just left the Public Health and Marine Hospital Service to become professor of pathology in the Harvard Medical School. Dr. Clegg, the original propagator of the bacillus, takes his place.

An ordinance enacted by the Legislative Council of Hong-kong, September 21, 1910, providing for the segregation and treatment of lepers, authorizes the governor in council to establish leper asylums from time to time and in such localities as he may see fit, and confirms the establishment of the leper asylum now existing at Au Tau. The ordinance allows lepers detained in asylums to build separate dwellings for their own use and at their own expense within the limits of the asylum, subject to such conditions as to plans, site and drainage as the governor may impose. Any person knowing of the existence of a leper or a person reasonably suspected of being a leper outside the limits of an asylum is required to give information of the fact to the police authorities, who shall report the same to the civil medical officer, who shall report to the colonial secretary, and he in turn to the governor. After medical inspection and on certification by two physicians that the person is suffering from leprosy, the governor shall order the leper to be committed to an asylum.

If the leper can show that he is able to provide medical treatment and isolation in his own abode, he shall not be removed to an asylum, but he shall remain subject to observation, and in the event of a breach of the conditions under which he is allowed to remain in his own abode, he shall be removed to a leper asylum. No person detained in a leper asylum shall leave the asylum without a written permit, and no one may enter an asylum without a permit, under penalty of fine. The governor may from time to time make such regulations as he may deem necessary, (a) for inspection, examination and removal of lepers to a leper asylum; (b) for the proper management and sanitation of asylums; (c) for the discipline and good order of the inmates; (d) for the custody and imprisonment within such asylums of lepers accused and found guilty of offences; (e) for regulating the sittings and procedures of courts to be held under this ordinance; and (f) generally for the better carrying out of the provisions of the ordinance and for the well-being of the inmates of the asylums.

The governor may prohibit any leper who is not a naturalized British subject from residing within the limits of the colony of Hong-kong, and may order such leper into arrest and detention until his departure.

This Hong Kong ordinance of last September is in all essentials entirely on the same basis as your Act respecting leprosy of June, 1906.

At your Tracadie Lazaretto there are at this date twenty-one patients, thirteen males and eight females. There have been five admissions and four deaths. Good results still follow the use of Chaulmoogra oil where it can be assimilated. Although the 'Nastin' treatment, especially in fresh cases, justifies certain hopes only a continuous treatment lasting for years can show us whether we can obtain by it a definite result respecting a cure. Still, the reports with regard to it are such as to warrant a trial of it, and that has accordingly been authorized at the Lazaretto.

In July last a case was reported of a Hindu leper at Kamloops, B.C. He was taken to the Darcy Island, B.C., Lazaretto, and thence deported to his own country. This was in accordance with his own desire.

*Smallpox.*—This disease has again had a world-wide appearance during the year. Owing to the prevalence of it in Newfoundland last spring, a quarantine inspection of vessels arriving from there was ordered by you on the 6th of May. This included the inspection and where necessary the vaccination of passengers on the SS. *Bruce* upon her tri-weekly arrivals at North Sydney, and so far all other vessels arriving from Newfoundland.

At the date of my last annual report, special inspections were in force at Charlottetown and at Georgetown, P.E.I., on account of smallpox in New Brunswick and Nova Scotia. This inspection is still in force with the exception that when the ice

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prevents the crossing of the steamers from Point de Chene to Summerside and from Pictou to Charlottetown and Georgetown, and the service is between Cape Tormentine, N.B., and Cape Traverse, P.E.I., an inspector serves you at the latter place.

Owing to the prevalence of smallpox in the neighbouring States south of western Ontario and Saskatchewan, medical inspectors at Fort Frances and Rainy River, Ontario, on duty at the date of my last report were retained, and on April 5th a similar inspection was established by you at the port of entry, North Portal, in Saskatchewan.

Montana has followed the lead of Minnesota and has discontinued the quarantine of smallpox. The bulletin of the State Board of Health says: 'Get vaccinated and protect yourself. The State should not be expected to protect citizens who can protect themselves at a minimum cost, and by the exercise of common intelligence. Smallpox is a disgrace, a dangerous disease, and a reflection upon any person of intelligence.'

This is very well in its way, and may teach the people to be vaccinated, but the fear is that it may need an appalling outbreak to make them understand and profit by the drastic measure of the State Board of Health. Meanwhile, the chances are that an unprotected generation is growing up, a standing menace to neighbouring States and countries.

In England and Scotland also they are preparing themselves for a dreadful future by the 'conscientious objectors' clause in the Vaccination Act. A recent article in the British Medical Journal runs as follows:

'Reference was made in these columns some weeks ago to the dangers which may affect the health of the community owing to the fact that large use has been made of the 'conscientious objectors' clause in the Vaccination (Scotland) Act, 1907. The whole circumstances of the situation have been occupying the attention of the town council of Edinburgh, through one of its committees, for some weeks. A sub-committee of the Public Health committee has been in communication with representatives of the Edinburgh Practitioners Association, who are moving in the direction of getting the latitude allowed under the 1907 Act greatly restricted. A call was made at the recent meeting of the town council for definite figures and statistics, and it appears that in Scotland in the three years up to 1908—the latest year for which figures are available—the number of those who have taken advantage of the exemption provisions are as follows: 1906, number of exemptions, 253; 1907, 7,258; 1908, 15,846. This gives a total of 23,357 persons who have never been vaccinated, and who, it is urged, would be a serious menace to the general community, and entail a large amount of expense to the public in the event of a smallpox epidemic taking place in Scotland. After considering the question fully, the sub-committee resolved to adhere to the recommendations previously made by the Public Health committee, and to point out that in consequence of the facilities given under the Act there was growing up a rapidly increasing number of unprotected persons who would be a source of danger in the case of an outbreak of smallpox. It proposes, accordingly, that parliament should be memorialized to amend the 1907 Act with the view of reducing materially the numbers of those persons who at present take advantage of the exemption facilities. It has been stated by some of the magistrates that persons who come before them for the purpose of securing exemption have in many cases the vaguest ideas as to the purpose and efficacy of vaccination.'

The medical officer of the local government board has issued an important report on the cold storage of vaccine lymph. During the past 12 months 400,820 charges of glycerinated calf lymph were issued from the board's laboratory (which supplies all the public vaccinators of the country). In primary vaccination the 'case success' was 99.4 per cent, and the 'insertion success' was 95.9 per cent, which shows that a high quality of lymph was maintained. Some time ago a preliminary report was published by Dr. Blaxall and Mr. Fremlin on the results of sustained subjection of glycerinated

calf lymph to temperatures below freezing point. The present report contains further information on lymph kept in cold storage for periods of 2 years and 6 months, respectively. The 2-year old lymph was found to be free from extraneous organisms and to give a 'case success' of 97.8 per cent, and an 'insertion success' of 91.4. Since July, 1908, the lymphs collected from two calves have been divided into two portions, one being placed in cold storage for 6 months and then issued to public vaccinators, the other being issued without being subject to a temperature below freezing. The former gave a 'case success' of 99.6 per cent, and an 'insertion success' of 96.7; the latter was issued 6 to 8 weeks after it was taken from the calves and gave a 'case success' of 99.5 per cent, and an 'insertion success' of 96.5. Thus the results in the two cases were practically identical, showing that the cold storage had not impaired the activity of the lymph. This result is important, as it shows that by cold storage a supply of lymph may be stored to meet any sudden expansion of demand which may arise by reason of an epidemic of smallpox.

*Beri-beri.*—Food theories as to the origin of beri-beri are strongly held in the East, and on the whole seem to be gaining ground. The bacteriological evidence which, when first brought forward by Baelz and Scheube, seemed so convincing, has not been confirmed, or at least there has been so much conflicting evidence, that up to the present no specific organism has been proved to be present. One of the latest views is that it depends upon over-complete shelling of the rice. Thus, Osler states that in Java the proportion of cases is 1 to 39 where the rice is eaten completely shelled, and 1 to 10,000 when the grain is eaten with its pericarp, while in some places the disease has disappeared after the substitution of unshelled for shelled rice. This question has been investigated by Dr. Henry Fraser, Director of the Institute for Medical Research, Federated Malay States, and Dr. A. T. Stanton, bacteriologist to the institute. They claim that the theory originated by Braddon now rests on a solid body of evidence, as it is supported by the observations of Fletcher and Lucy in the Malay States, of Dubreuil in French Indo-China, and of Gilmore Ellis, whose paper was published last year in this *Journal* (October 2, page 935). Although there has been the consensus of opinion respecting the power of white rice to produce the disease, the mechanism by which the result is effected has remained obscure. Some attribute it to diseased rice, others to the presence of a supposed poison in the rice for which an equally hypothetical antidote exists in the pericarp. Following these lines of thought, Fraser and Stanton, of whose investigation we gave some account in our issue of April 16, have experimented on fowls, and found that when fed on white rice they suffer from a form of polyneuritis, which they believe to be analogous to beri-beri, and which, at any rate, serves as an indicator of the beri-beri producing power of a given sample of rice. On the other hand, if the rice is parboiled the fowls remain quite healthy. Unhusked rice is spoken of in the East as 'padhi'; from 40 parts of padhi when cleaned, 25 parts of rice are obtained, 10 of husks and 5 of polishings. Twelve fowls fed on padhi remained healthy; of twelve fed on white rice six suffered from polyneuritis; of twelve fed on white rice and polishings all remained healthy; lastly, of twelve fed on the padhi husked in the primitive Malay method by a native woman, all remained healthy. Although parboiled rice was unable to produce the disease if it was extracted with alcohol and then dried in the sun, fowls fed on it contracted polyneuritis. Following a suggestion made by Dr. F. W. Mott, it was decided to determine the amount of phosphorus calculated as phosphorus pentoxide in the various kinds of rice in use. It was found to be greatly deficient in white rice. The authors refer to an address delivered by Dr. H. Schaumann before the German Society of Tropical Medicine, in which he had advanced the conjecture that beri-beri is a disease of metabolism associated with a diet deficient in organically combined phosphorus. They conclude that the prevention of beri-beri may be achieved by substituting for ordinary white rice one in which the polishing process has been omitted or has been carried out to a minimal extent, or by adding to a white rice diet articles



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rich in those substances in which it is deficient; such an article, cheap and readily obtained, is the polishing from white rice.

Dr. Victor S. Heiser, Director of Health and Chief Quarantine Officer for the Philippine Islands, writes in *The Journal* as follows:—

‘Extensive inquiry made throughout the Philippine Islands has almost invariably shown that in districts in which hand pounded or, in other words, unpolished rice is commonly used, there is little, if any, beri-beri; whereas in districts in which machine or polished rice is used as the staple article of diet, beri-beri is common. An apparent exception to this general rule is found, however, among the residents of the Batanes Islands. It may be mentioned that these are isolated islands north of Luzon and south of Formosa, which have communication with the outer world only a few times each year, and owing to their inaccessibility they generally escape visitations of cholera and many other dangerous communicable diseases.

‘The Batanes are poorly adapted to rice culture, and for this reason considerable polished rice is imported each year, and it would seem reasonable to infer that if the present theories with regard to the etiology of beri-beri are correct, cases of this disease should be encountered. An investigation of the dietary of the inhabitants of these islands shows, however, that meat and potatoes are more commonly used than in other parts of the Philippines. In brief, food of various kinds, other than rice, is so plentiful that rice is not the staple article of diet to the same extent as it is elsewhere in the archipelago.

‘Considerable difficulty has been encountered and much opposition has resulted from the attempt to introduce unpolished rice on a large scale in the Philippines. When the army and the insular government entered the market to purchase large quantities of unpolished rice it developed that the dealers were unable to supply the demand, because managers of rice mills refused to adjust their process of manufacture to meet the new requirements. This resulted in large quantities of rice being used that came from the mills immediately after it was husked.

‘The machines that are used locally for this purpose let many of the smaller rice grains pass through without the husks being removed from them. Previously such rice went directly to the polishing machine, which not only polished the rice, but removed the husks from such grains as still retained them, so that the finished product was clean. It was apparent then that much of the unpolished rice that was issued in the beginning was not very clean and contained many husks. This gave rise to much complaint among those who were required to use it. It was frequently alleged that the husks tickled the throat and often caused gastritis. On investigation, no reliable evidence as to the gastritis could be obtained. Commissary officers, prison wardens and others who were directly charged with carrying out the orders to use unpolished rice, were constantly besieged with complaints, and it was but natural that they should take the course of least resistance, and recommended that its use be discontinued. To add to the difficulties of those who were insisting on the use of unpolished rice, the rumour spread that unpolished rice when stored in bulk soon spoiled, thus causing great financial loss. Investigation of this matter showed that there was no reason to believe that unpolished rice, when stored under the same conditions as polished rice, spoiled more quickly.

‘A campaign of education was then begun. Dr. Aron frequently went to the rice mills in person, and was invariably able to demonstrate that rice could be rendered clean and free from husks without polishing it to a degree that would be harmful. Similar work, with like results, was accomplished by Hight in Siam, so that it may now be said that clean, unpolished rice, satisfactory in appearance, can be obtained in the Philippines and abroad, and that the original objections to its use no longer exist.

‘By January, 1911, so much evidence had accumulated that unpolished rice was an important factor in the prevention of beri-beri, that it was deemed most desirable

to bring about its general use in the Philippines, for a few years at least, in order to test the theory thoroughly. At the most, no harm can result, and on the other hand there is every promise that many hundreds of lives may be saved and a still greater morbidity avoided. Experimental investigations made by Dr. Aron showed that a rice which has only been polished to a point where it still contains 0.4 per cent of phosphorus pentoxide may be regarded as incapable of producing beri-beri. Almost coincidentally, similar conclusions were announced by Highet.

'For purposes of convenience, then, a rice that contains less than 0.4 per cent of phosphorus pentoxide is regarded as polished rice, and that which contains a greater percentage of phosphorus pentoxide is regarded as unpolished rice.

'Accordingly, a bill was drafted which had for its purpose the bringing about of the general use of unpolished rice in those places where rice was the staple article of diet. After considerable discussion with physicians, lawyers, legislators and others, it was deemed advisable to attempt this with a law that would impose a tax of 5 centavos (2½ cents U.S. currency) per kilo on all polished rice sold, whether foreign or domestic.

'Owing to the fact, however, that the legislature adjourned during the early days of February, there was not sufficient time to present this matter to both of its branches.

'On account of the successful experience with unpolished rice in the prophylaxis of beri-beri in the Philippines during the year, and since these data confirm the work of Fraser, Stanton, Aron, Kilbourne, de Haan and Highet, as reported at the last annual meeting of the Far Eastern Association of Tropical Medicine, it is believed that the time has come for the medical profession to aid in completing the last step in the test which promises to place another weapon in the hands of prophylactic medicine for the eradication of another of the world's serious and costly diseases.'

*International Office of Public Health, Paris.*—The monthly bulletins from this office were regularly received throughout the year. They gave much valuable information as to the movements of infectious disease and of the means employed by different countries to meet and control them.

In accordance with the international agreement, the fact of the occurrence of a case of Asiatic cholera amongst the immigrants who arrived ex ss. *Royal George* at Quebec and Grosse Isle in November, was promptly notified to the International Office of Public Health in Paris by cable.

*Sleeping Sickness Bureau.*—The bulletins of this bureau, issued under the direction of the honorary managing committee in London, have also been regularly received.

In both cases spare copies received have been distributed to the provincial boards of health.

*Special Inspection for Smallpox.*—At the date of my last annual report the presence of smallpox in Montana and North Dakota had been reported; and the advisability of instituting special quarantine inspection at North Portal, Saskatchewan, was under your consideration. It was instituted by you within a few days thereafter, on April 5, 1910, and continued until August 16.

In British Columbia you instituted special smallpox frontier quarantine inspection at Sumas (Huntingdon), with guards on frontier trails and at Peardonville, on January 27. These guards were withdrawn on February 15. The medical inspection at Huntingdon you have ordered raised at midnight to-night.

In Ontario, frontier inspection was established at Fort Frances before the date of my last annual report. It was raised on August 16. It was re-established on January 4, 1911, and is still in force. At Rainy River it was established on April 1, 1910, and raised on August 16. It was re-established on January 4, 1911, and is



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still in force. At Sault Ste Marie it was established on June 4, and raised August 16, 1910. At Port Arthur it was established on June 11, and raised August 16, 1910.

In Prince Edward Island temporary quarantine inspection has been established from time to time during the year on account of the prevalence of smallpox in New Brunswick and Nova Scotia. This is the only province that has the right of quarantine protection against her sister provinces at the hands of the Dominion government. This was included in the guarantees to her when she entered Confederation. At Georgetown special inspection was in force at the date of my last annual report, and has been maintained throughout the year. At Charlottetown similarly all arrivals from New Brunswick or Nova Scotia have been specially examined by your regular officer there. At Summerside inspection was established on October 14, 1910, and raised March 3, 1911. At Cape Traverse, when the winter crossing was made to that point from Cape Tormentine, N.B., inspection was established on February 18, and is to be raised at midnight to-night.

At Sydney, N.S., during the prevalence of smallpox in Newfoundland the ss. *Bruce* from that island was inspected at Sydney upon her tri-weekly arrivals. This was in force from May 7 to July 21, and during that period also all arrivals from Newfoundland were inspected specially for smallpox at all quarantine ports in the maritime provinces by your instructions.

*Circulars.*—Circular letters were issued from time to time to your different officers, calling their special attention to various matters, during the year. On June 29, *re* cholera in southern Russia; August 20, *re* cholera in Italy; September 27, *re* cholera in Naples; January 3, 1911, *re* plague in East Anglia; February 11, 1911, *re* water ballast in vessels arriving; February 20, *re* plague in Glasgow.

*Official Visits and Inspections.*—On May 10 last, by your instructions, I visited the New York Quarantine Station and the Ellis Island immigration buildings. I was accompanied by Mr. Billings, an architect of the Public Works Department. Our visit was to get information that might be of use in designing new buildings for quarantine purposes in this country. Dr. Doty, the health officer at the port of New York, with his usual courtesy gave us every opportunity of gaining the information desired.

On May 31, I left for Toronto, and attended the annual meeting of the Canadian Medical Association.

On June 6 and following day I attended the annual meeting of the Canadian Association for the Prevention of Tuberculosis.

On June 24, I left for the Atlantic coast, and inspected the Leper Lazaretto at Tracadie, N.B., and the quarantine stations at Chatham and St. John, N.B., Halifax, Sydney and Louisburg, N.S., Charlottetown, P.E.I., the quarantine buildings at Pictou, N.S.; and the quarantine station at Grosse Isle, Que., in the river St. Lawrence.

On July 5, I left for British Columbia. I inspected at Vancouver, and at William Head, Victoria. Went up to Prince Rupert, and with Dr. Watt, the superintendent of British Columbia quarantines, and Dr. Tremayne, the quarantine officer of Prince Rupert, selected sites for the proposed buildings at your new quarantine station in the Lima passage, on Digby island.

On my return trip I stopped at Edmonton and Winnipeg, to confer with the executive officers of the principal boards of health.

On September 3, I left for Milwaukee, Wis., to attend the annual meeting of the American Public Health Association.

On November 18, I went to Quebec and the Grosse Isle quarantine station to take charge of the situation in view of the landing of a case of Asiatic cholera ex ss. *Royal George*.

## STATIONS.

*Grosse Isle, Que.*—Vessels inspected, 378; a total increase over last year of 14 vessels, and a relative increase of 41 per cent in the number of passenger-carrying vessels. Persons inspected, 178,167, an increase of 57,941 over last year. Admissions to hospital, 727; largest number in at one time, 420. The diseases were Asiatic cholera, scarlet fever, diphtheria, measles, varicella, enteric fever, mumps and erysipelas. The deaths were 11. The arrival of a case of Asiatic cholera for the first time since 1893 was a marked event of the year. I have referred to it at length under the head of Asiatic cholera.

The late retention of patients and others at this quarantine—as last year and this year—is likely to increase from year to year as the immigration increases, and points to the fact that the Grosse Isle quarantine station can no longer be regarded as a summer quarantine alone. The water pipes now laid above the ground, and therefore requiring to be emptied before the frost comes, should be sunk to a frost-proof depth throughout the station.

The wooden buildings, built in 1848, for the detention of suspects at the western end, should be replaced by two-story brick buildings, furnace heated.

The wharf now to be extended into deep water, should be provided with a 'T,' giving mooring length of at least 500 feet, so that vessels ordered into quarantine may be able to come to it and land their passengers and supplies, and not have to depend upon the ferrying in of them for two miles in the small station boats, which cannot lie alongside of the big steamer if the sea is heavy, as it was, though only moderately so, on the Friday which the *Royal George* lost at quarantine for that reason.

A laboratory should be built at once at the station, exactly similar to the one already built at the William Head quarantine, and an expert bacteriologist should be added to the Grosse Isle staff, who should be obliged to devote several hours a day to work in the laboratory. This is essential for any one who desires to keep up the technique and to keep the materials in his laboratory in working order. Apart from the few hours so occupied during each day, such an assistant should be available for the other work of the station, which is yearly increasing with the increasing immigration.

*Rimouski, Que.*—Advance substation of Grosse Isle. Vessels inspected, 31.

*Halifax, N.S.*—Vessels inspected, 330, being 32 more than last year. Persons inspected, 101,594, being 20,677 more than last year. Admissions to hospital, 45; diseases: smallpox, scarlet fever and measles. Deaths, 3, from scarlet fever. The new quarantine steamer *Minoca* has arrived from England, where she has been built, and has been put into commission for the service at this station.

*St. John, N.B.*—Vessels inspected, 182, an increase over last year of 14; persons inspected, 34,281, an increase of 14,677. Admissions to hospital, 21; diseases: measles, chicken-pox, enteric fever, scarlet fever and diphtheria. No deaths. The new wharf space is now completed and ready for the larger disinfecting appliances.

*Sydney, N.S.*—Vessels inspected, 150. This included inspection of the ss. *Bruce* during the prevalence of smallpox in Newfoundland. No quarantinable disease presented itself during the year.

*Louisburg, N.S.*—Vessels inspected, 14; persons inspected, 348. No quarantinable disease.

*Chatham, N.B.*—Vessels inspected, 30; persons inspected, 567. No quarantinable disease.

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*Charlottetown, P.E.I.*—Vessels inspected from beyond the seas, 10. No quarantinable disease. Daily inspection of steamers from Pictou from April 1 to January 25, at which latter date navigation at this port closed.

*William Head, B.C.*—Vessels inspected, 164; persons inspected, 33,223. Amongst the crews there were 5,215 Chinese, 2,550 Japanese and 134 other Asiatics. Amongst the passengers there were 11,655 Chinese, 1,628 Japanese and 9 Hindus. This has been an exceptional year, in as much as there has not occurred any case of any of the graver quarantinable diseases, although deaths from plague and from beri-beri, and cases of smallpox, were reported as having occurred on vessels arriving. By your permission the coastwise ss. *Princess May* was disinfected and her crew vaccinated. Smallpox was found on her at Vancouver, and at the request of the provincial authorities she was received at William Head for treatment. Similarly H.M.C.S. *Rainbow*, which had had a case of diphtheria on board, and her sickbay disinfected; the effects of the recruits (23) were disinfected, and the recruits bathed.

*Victoria, B.C.*—No foreign vessels inspected.

*Vancouver, B.C.*—Three foreign vessels inspected.

*Prince Rupert, B.C.*—On December 10 the 20-foot quarantine launch *Evelyn* for service at this station arrived from Victoria under her own power, and is now in commission. The works you have now approved of, wharf, medical officer's residence, and hospital, will fit this station as a mercantile quarantine station. The addition of detention buildings, disinfecting and other appliances, laboratory, &c., will be necessary to fit it as a passenger quarantine station, before the lines of passenger travel are developed through.

*Tracadie Leper Lazaretto, N.B.*—Five new cases admitted during the year. There have been four deaths. Present number of patients 21, males 13, females 8. Alleviation has continued to follow the use of chaulmoogra oil in cases where it can be administered. Treatment with nastin is now to be tried.

*Darcy Island Leper Lazaretto, B.C.*—One leper was received at this lazaretto during the year, a Hindu discovered at Kamloops, B.C., to be affected with the disease. He was subsequently deported with his own consent.

*Public Works Health Act.*—Your inspector under this Act—Mr. Chas. A. L. Fisher—reports for the territory from Winnipeg, Man., east to the Atlantic ocean. He reports this year as an exceptional one in the almost complete absence of infectious diseases. He found the medical service on the different works of railway construction to be adequate, and the sleeping quarters and boarding of the men fully equal to the very good conditions in that way reported last year.

Dr. A. E. Clendenan, your western inspector from Winnipeg to the Pacific ocean, reports upon the railroad, bridge and irrigation ditch construction works in his district. He states that the medical service has on the whole been very good. Whenever convenient, the old-established hospitals in cities and towns are utilized instead of the temporary camp hospital, but this applies, of course, to prairie works much more than to trans-mountain works. Throughout the works the men are well fed and pretty well housed. The general health condition on the whole has been good.

I have the honour to be, sir,

Your obedient servant,

(Sd.) 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, 1911.

SIR.—I have the honour to submit my annual report of the St. Lawrence Quarantine Service for the year ended March 31, 1911.

There were 378 vessels cleared during the season, being an increase of 14 as compared with last year. Of these 55 per cent were passenger-carrying vessels; this being an increase of 41 per cent in this class of vessels since the past decade.

The total number of persons examined was 178,167, being an increase of 57,941 over the past year, and also exceeding any other year by about 20,000. They were divided among the different classes of passengers as follows: 1st cabin, 7,309; 2nd cabin, 36,030; steerage, 90,877; cattlemen, 861; crew, 43,032; stowaways, 58.

Infectious disease was discovered or reported on board every passenger boat arriving here, on one or more occasions, with the exception of ten.

The diseases so discovered or reported were Asiatic cholera, scarlet fever, diphtheria, measles, varicella, rotheln, typhoid fever, mumps and erysipelas.

On three different occasions parties refused vaccination, viz.: May 10, ss. *Grampian*; May 22, ss. *Hesperian*; July 1, ss. *Virginian*. They were landed for the usual period of observation.

Births during the voyage were reported on five different occasions, and deaths on eighteen. The causes of death being: Heart failure (4), syncope and Bright's disease (1), nephritis complicating heart disease (1), pneumonia (2), apoplexy (1), scarlet fever (1), measles (1), suffocation (1), alcoholism (1), lost overboard (3), cerebral hemorrhage (1), meningitis (1), accident (1).

*Cholera*.—SS. *Royal George*, which sailed from Bristol on November 9, arrived at the quarantine about 4 a.m. the morning of November 17, and presented a clean bill of health from the port of departure (Bristol).

The ship's surgeon reported only two cases of varicella, which were landed, and stated that there were no other cases of sickness whatever during the voyage.

In accordance with the regulations, the vessel was granted pratique on the sworn affidavit of the ship's surgeon and captain that there was no other illness on board except the above mentioned; but the immigration medical officers at Quebec having discovered one suspicious case of cholera among the steerage passengers, the steamer was, by instructions of the department, sent back to Grosse Isle with all passengers on board. It was then agreed between the immigration and our department that we should land for observation only the steerage passengers, and the steamer having been thoroughly disinfected was released with the rest of passengers that had not been exposed to infection.

No other cases of infectious diseases of any kind having developed among the passengers detained under observation, they were released after a period of five days of detention.

The bacteriological examination of patient's stools proved that we had to deal with a case of Asiatic cholera; but this case presents great interest in as far as it has developed and has continued to be in the course of time. While the immigration medical officer at Quebec has diagnosed this case by the weakness, drawn character of the face, blueness of the lips and profuse watery diarrhoea for two or three days, the other observations upon the condition of the patient and his rapid convalescence demonstrate that there was not a severe and typical choleraic seizure. In fact, when I examined the patient at Grosse Isle, he presented more typhic than choleraic symptoms and characters.

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The same organism of cholera to the one discovered in the first bacteriological examination having continued to be obtained from the well formed stools of the patient, there is no doubt that we have to deal with a 'cholera-carrier.' Such cholera-carriers were recognized many years ago by Dunbar during the Hamburg cholera epidemic, when he discovered on six occasions a cholera spirillum in the stools of apparently healthy individuals who had never shown signs of the acute disease. Some other doctors also came across 'cholera-carriers.'

The presumption is that our patient, as in the Hamburg cases, had the cholera spirillum of low virulence growing in his intestinal canal for at least several weeks, and becoming depressed or having his vitality lowered, induced a mild choleraic attack.

He is now perfectly well, at least physically; but as stated previously, the different bacteriological examinations made from time to time until now have proved that he still carries germs of cholera, although in less abundance than at first; and it is very difficult to say how long this will last, but it is quite possible that the spirilla will completely disappear.

This year has certainly been one of the busiest at this station since a long time; and the first one that the station has been kept open all the year round. There were admitted 727 persons at the hospital, and we had constantly to treat a number varying from 30 to 420 persons at a time, suffering from different diseases.

The deaths numbered 11. One from intestinal rupture caused by whooping cough, 3 from broncho pneumonia complicating measles, 1 from measles, 2 from diphtheria complicating scarlet fever, 2 from infantile diarrhœa, 1 from phthisis secondary to measles and 1 from typhoid fever.

There were also landed for burial at quarantine, the bodies of three persons who died on shipboard.

One birth occurred in the hospital.

*Quarantine Staff.*—The Rimouski substation continued to be in charge of Dr. E. Belisle, who made the inspection of the weekly mail steamers. I visited this advance port, and coming up from there on the mail steamers, made a detailed inspection between Rimouski and Grosse Isle.

*Improvements.*—The installation of two furnaces in the hospital may be regarded as one of the most important improvements carried out this year.

*Requirements.*—Since many years, I am asking that a building for a laboratory be erected; but the time has come when this improvement is more indispensable and necessary than ever; and I have every reason to believe that this will be carried out this year. Also it will be necessary to appoint an expert bacteriologist to take charge of it.

As already stated in previous reports, the old wooden sheds which date from 1832 and 1848 should be replaced by more modern buildings and appliances.

Three new buildings are also required. One to be used as quarters by our captain and chief engineer, one for the hospital staff and the other one for a store where to put the provisions, beds, &c., used at the hospital.

There are still some other works and repairs, the list of which is in the hands of the department.

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. 2a.

(ERNEST BELISLE, M.D.)

RIMOUSKI QUARANTINE SUBSTATION, April 1, 1911.

SIR,—I have the honour to submit to you my annual report for the year ended March 31, 1911.

Thirty-one vessels were inspected at this station during the season.

Infectious diseases were reported on the following vessels calling here to land English mails: On June 3, ss. *Virginian* had to continue to Grosse Isle on account of one case of diphtheria; June 16, ss. *Victorian*, one case of measles; June 23, ss. *Empress of Britain*, one case of measles; June 30, ss. *Virginian*, because a passenger refused to be vaccinated; July 28, ss. *Virginian*, one case of measles; July 29, ss. *Laurentic*, one case of measles; August 18, ss. *Empress of Britain*, one case of varicella; September 22, ss. *Virginian*, one case of measles; October 28, ss. *Empress of Ireland*, one case of whooping cough; November 3, ss. *Victorian*, one case of chicken-pox.

Of 31 vessels examined here, 10 had to stop at Grosse Isle to land infectious cases.

I have the honour to be, sir,

Your obedient servant,

ERNEST BELISLE, M.D.,

Quarantine Officer.

The Honourable

The Minister of Agriculture,  
Ottawa.

## APPENDIX No. 3.

(N. E. MacKAY, M.D., M.R.C.S.)

HALIFAX, N.S., April 10, 1911.

SIR,—I have the honour to submit my annual report of the work of this station for the year ended March 31, 1911.

The work of the station was uneventful during the year just ended. We had only one case of the major quarantinable diseases at the station hospital, but we had several of the minor forms of diseases.

We had three deaths at the station from a very virulent type of scarlet fever. One death was due to the intensity of the primary fever (hæmorrhagic scarlet fever), and two to intense angina with extensive suppuration of the glands of the neck.

The smallpox case was brought to port by the steamer *Uranium* from Hamburg on June 17, 1910. We detained 289 of the immigrants in quarantine of observation, and released the ship with the crew after disinfection and vaccination. No new case developed amongst those detained in quarantine of observation or amongst those released with the ship. I understand the United States Marine Hospital Service detains smallpox contacts under observation only for 14 days, the usual incubation

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period of the disease. It is time our law was so amended as to make the detention period 14 days, too.

One operation was performed at the station hospital for disease of the middle ear and mastoid cells secondary to measles. The operation is known as 'Stacke-Schwartz's' operation. It was successful, and the child made a good recovery.

During the year just ended there were 101,594 persons inspected, classified as follows: Cabin, 2,695; second-class, 16,837; steerage, 56,233; crew, 25,477; cattle-men, 106; Chinese in bond, 246. This is 20,677 more than was inspected during the year ended March 31, 1910.

We inspected 330 vessels during the year just ended. This is 32 more than in the preceding year.

There passed through this port in bond, 246 Chinese, which we inspected in transit.

The repairs to the wharf at Lawlor's Island are about finished. A coal shed was erected on this wharf last fall, which was much needed. In two years the shed will save, in the consumption of coal, an amount equal to the cost of construction.

To keep the plant and buildings in good repair always, we should have a permanent engineer and carpenter living on the island.

There were 11 cases of scarlet fever, 7 of measles and 1 of smallpox admitted to the hospital during the year, and accompanying these patients there were 7 men, 9 women and 10 children. Total admissions between sick and well, 45.

Quarantinable diseases were found in the following vessels: SS. *Hesperian*, from Glasgow, April 10, 1910, 3 cases of measles, for New York; ss. *Campania*, from Rotterdam, April 15, 3 cases of measles, for New York; ss. *Tunisian*, from Liverpool, April 15, 1 case of measles (convalescent); ss. *Victorian*, from Liverpool, April 22, 1 case of measles (convalescent); ss. *Brandenburg*, from Bremen, April 27, 9 cases of scarlet fever and 1 of measles; ss. *Parisian*, from Glasgow, May 7, 1 case of scarlet fever; ss. *Volturro*, from Rotterdam, May 11, 6 cases of measles; ss. *Campania*, from Rotterdam, May 31, 3 sick with mumps; ss. *Uranium*, from Hamburg, June 15, 1 case of smallpox; ss. *Empress of Ireland*, from Liverpool, November 24, 2 cases of measles, bound to St. John; ss. *Tunisian*, from Liverpool, November 25, 1 case of measles; ss. *Tunisian*, from Liverpool, December 23, 1 case of measles (convalescent); ss. *Grampian*, from Liverpool, December 9, 1 case of whooping cough (convalescent); ss. *Corsican*, from Liverpool, January 28, 1911, 1 case of varicella (convalescent); ss. *Megantic*, from Liverpool, February 26, 2 cases of measles; ss. *Sicilian*, from Liverpool, November 9, 2 cases of measles, for Portland (U.S.A.).

Diseases other than quarantinable occurred on the voyage or existed on board the following vessels when they arrived in port: ss. *Empress of Ireland*, from Liverpool, April 14, 1910, acute intestinal obstruction in child four years old (died); ss. *Mongolian*, from Liverpool, April 12, acute peritonitis (from duodenal ulcer—died), pneumonia (2); ss. *Brandenburg*, from Bremen, April 27, pneumonia (2), erysipelas (1); ss. *Pisa*, from Hamburg, May 27, pneumonia (1); ss. *Mongolian*, from Liverpool, August 25, one child with bronchitis (died); ss. *Campania*, from Rotterdam, November 14, 1 case of erysipelas; ss. *Canada*, from Liverpool, December 1, 1 case of heart disease (died); ss. *Hesperian*, from Liverpool, December 16, simple diarrhoea (1); ss. *Tunisian*, from Liverpool, February 10, 1911, pleuresy (1); ss. *Grampian*, from Liverpool, February 17, acute bronchitis (1); ss. *Corsican*, from Liverpool, March 31.

Deaths occurred on the following vessels: SS. *Empress of Ireland*, from Liverpool, April 14, 1910; cause, acute intestinal obstruction in a child four years old. SS. *Mongolian*, from Liverpool, April 21; cause of death, acute general peritonitis secondary to ruptured duodenal ulcer. SS. *Brandenburg*, from Bremen, April 27; 2 deaths; causes, 1 scarlet fever and 1 diphtheria. SS. *Mongolian*, from Liverpool,

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August 25; 1 death; cause, acute bronchitis. SS. *Canada*, from Liverpool, December 1; 1 death; cause, heart disease, probably valvular. SS. *Corsican*, from Liverpool, March 31, 1911; 1 death; cause, premature birth.

The new quarantine steamer *Minoca* arrived in port from England on January 8 in a slightly damaged condition. She struck a submerged buoy outside the entrance of the harbour, which slightly dented six or seven plates in her bottom, but she was not otherwise injured. This caused considerable delay in taking her off the hands of the builders, Philip and Son, Dartmouth, England. All the damage was made good by the underwriters, after which the steamer was taken over by the department on the certificates of the government inspectors of hulls and machinery.

The steamer is well and substantially built, and after some slight alterations and suggested improvements have been made she will be well adapted for the quarantine work of this port.

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. RUDDICK, M.D.)

ST. JOHN, N.B., March 31, 1911.

SIR,—I have the honour to submit my report for the year ended March 31, 1911.

There were 182 vessels inspected at this station this year; this is an increase of 14 as compared with last year.

At the same time we inspected 34,281 persons, classified as follows: Cabin, 703; intermediate, 4,616; steerage, 18,932; crew, 9,806; cattlemen, 179; stowaways, 18. This is an increase of 14,677 as compared with last year.

No vessels arrived with any of the graver quarantinable diseases.

Cases of minor quarantinable diseases were found on the following vessels: The ss. *Lake Michigan* arrived on April 4, 1910, with 2 cases of measles; the ss. *Pomeranian*, on April 12, 1910, with 2 cases of measles; the ss. *Victorian*, on April 24, 1910, with 1 case of diphtheria; the ss. *Mount Temple*, on November 28, 1910, with 2 cases of measles; the ss. *Empress of Britain*, on January 6, 1911, with 1 case of measles; the ss. *Montezuma*, on January 10, 1911, with 1 case of typhoid; the ss. *Lake Michigan*, March 11, 1911, with 2 cases measles, 2 cases scarlet fever and 1 case typhoid fever; the ss. *Champlain*, on March 13, 1911, with 2 cases of measles; the ss. *Mount Temple*, on March 24, 1911, with 1 case of measles; the ss. *Cassandra*, on March 20, with 1 case measles; the ss. *Empress of Britain*, on March 24, 1911, with 2 cases chicken-pox and 1 case of measles.

We had 13 cases of measles, 2 of chicken-pox, 2 of typhoid, 2 of scarlet fever, 1 of diphtheria and 1 of pneumonia. Also 31 were detained for observation.

All made good recovery, and at the present time we have three cases in our hospital, two of measles and one of chicken-pox.

No deaths have been reported to me occurring on the passage here.

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*Improvements.*—Our new wharf is completed, and is ready for our new disinfecting building. Our fencing of quarantine property is about completed.

*Requirements.*—The two cottages for our staff, which have been applied for, are still much needed; but we hope to see our staff occupying the same before very long. A great deal of repairs have been going on to our water pipes crossing the channel, and while we get a supply sufficient for ordinary requirements, three times per week, in case of fire it would be almost impossible to save our buildings, the water only being turned on for one hour each time. A new water pipe is the only way to solve the difficulty. Our buildings need painting, and the roofs repaired.

Our boatman is building a new boat for a runabout, to take the place of the old one. The new one is nearly completed.

I have the honour to be, sir,

Your obedient servant,

R. C. RUDDICK, M.D.,

*Quarantine Officer.*

The Honourable

The Minister of Agriculture,  
Ottawa.

## APPENDIX No. 5.

(H. RINDRESS, M.D.)

NORTH SYDNEY, C.B., March 31, 1911.

SIR,—I have the honour to submit my annual report for the year ended March 31, 1911.

The total number of vessels inspected for the year just ended number 160. Of these, 129 were steamships and 31 sailing vessels.

I am pleased to say no quarantinable disease reached the port during the year from any of the foreign vessels inspected.

Owing to the prevalence of smallpox in Newfoundland during a portion of the year, regular inspections were made, by ministerial orders, of the ss. *Bruce*, which makes tri-weekly trips between Newfoundland and North Sydney. All other vessels from Newfoundland were also inspected by the same order. During these inspections a systematic vaccination of all unprotected arrivals was carried on.

At the request of the Public Works Department the quarantine station at Point Edward was placed at their disposal last December for the care of three smallpox patients who all contracted the disease from local sources.

I have the honour to be, sir,

Your obedient servant,

HORACE RINDRESS, M.D.,

*Quarantine Officer.*

The Honourable

The Minister of Agriculture,  
Ottawa.



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**APPENDIX No. 6.**

(FREEMAN O'NEIL, M.D.)

LOUISBURG, March 31, 1911.

SIR,—I have the honour to submit my annual report for this quarantine station for the year ended March 31, 1911.

There were fourteen (14) vessels inspected, with a total number of three hundred and forty-eight (348) men.

No quarantinable disease was brought to this port during the year.

I have the honour to be, sir,

Your obedient servant,

FREEMAN O'NEIL, M.D.,

*Quarantine Officer.*

The Honourable

The Minister of Agriculture,  
Ottawa.

**APPENDIX No. 7.**

(J. BAXTER, M.D.)

CHATHAM, March 31, 1911.

SIR,—I beg leave to submit the following report for the past year ending to-day of affairs transacted at this station.

The damages done to the wharf the fall before were repaired.

The first arrival this past spring was the Norwegian barque *Skien* from St. Thomas. This is said to be the earliest arrival for a sailing vessel since 1846.

The keeper's house and the two hospitals received a couple of coats of paint, which were much needed.

A cellar was also dug under the keeper's house and cemented to resist tides. This was very much needed, as there was no place for storage of vegetables and such like material before.

On October 4 we had the lowest tide ever seen here in the memory of the oldest inhabitant. Blocks of an old wharf were seen at the southeast corner of the island that nobody knew were there.

The number of vessels inspected, 30; steamships, 18; barques, 8; barquentines, 3; three-masted schooner, 1.

Number of men examined, 567.

No quarantinable disease.

River closed, December 6.

I have the honour to be, sir,

Your obedient servant,

J. BAXTER, M.D.,

*Quarantine Officer.*

The Honourable

The Minister of Agriculture,  
Ottawa.



**APPENDIX No. 8.**

(PETER CONROY, M.D.)

CHARLOTTETOWN, P.E.I., March 31, 1911.

SIR,—I have the honour to submit my report for the year ended March 31, 1911.

There was no case of infectious disease brought to this port during the past year.

Daily inspection of steamers from Pictou was made from April 1, 1910, to January 25, 1911, at which latter date navigation at this port closed.

Communication with the mainland was thereafter taken up by the winter steamers between Georgetown and Pictou, and by the ice boats between Capes Traverse and Tormentine. These routes at this date are still in use.

On account of the prevalence of smallpox throughout Nova Scotia and New Brunswick, and particularly so in the lumber districts where many persons from this province are employed, a careful inspection of all persons coming from those places was particularly necessary.

One case of smallpox was imported from Nova Scotia, the disease developing two weeks after the man's arrival at his home. The disease in this case was communicated to six other members of the household. Another case was brought from the Maine lumber woods, and from it the disease spread to about a dozen other persons.

The local authorities have had charge of all those cases.

There were ten inspections of vessels from beyond the sea.

During the past year the hospital has been provided with screen doors and windows, and is in a suitable condition of preparedness.

I have the honour to be, sir,

Your obedient servant,

PETER CONROY, M.D.,

*Inspecting physician.*

The Honourable

The Minister of Agriculture,  
Ottawa.

**APPENDIX No. 9.**

(A. T. WATT, M.D.)

VICTORIA, B.C., March 31, 1911.

SIR,—I have the honour to submit this my report of transactions at the William Head quarantine station for the twelve months ended March 31, 1911.

During the twelve months there were 164 vessels inspected. The members of crews of vessels numbered 14,073, in which number there were 5,215 Chinese and 2,550 Japanese and 134 other Asiatics. The cabin passengers numbered 4,734 and the steerage, 14,392, of these, 11,655 were Chinese and 1,628 Japanese. Other nationalities numbered 143, of whom 9 were Hindu. There were 24 stowaways reported.

During these twelve months there has occurred no case of any of the graver quarantinable diseases on any of the vessels coming from foreign ports, and it has, therefore, been an exceptional year in that respect.

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From Vancouver, the ss. *Princess May* was remanded May 13 by the Provincial Board of Health, as one of the passengers, from the north, was found to have smallpox on the day he landed there. At the request of the provincial authorities, this steamer was disinfected and the crew vaccinated. On December 1, H.M.C.S. *Rainbow* reached the station, and the request was made that the sick bay be fumigated, as a case of diphtheria had been put in city hospital in Vancouver. This case had occurred amongst the recruits, who had been taken on two days before. The effects of all the recruits, to the number of 23, were disinfected and the recruits bathed.

Cases of measles and mumps were reported to have occurred on voyage, but these were in convalescent stage on arrival here. These cases were amongst passengers by the Canadian-Australian line.

The Blue Funnel liner *Ning Chow* arriving here March 18, reported that amongst pilgrims carried from Jeddah to Singapore there had been one death from plague and two from beri-beri, and that there had been five cases of smallpox. After landing pilgrims at Singapore, the vessel was thoroughly fumigated and proceeded on voyage. All of the crew were well on arrival at this station, five weeks afterwards.

On other steamers cases of beri-beri were found in convalescent stage. Cases of malaria were also seen, and three deaths resulting from this disease, with other complications, were inquired into. In one case the illness was thought to be suspiciously like yellow fever by a physician in one of the ports touched at. This case died at sea the following day, and a week later vessel arrived here. An inquiry brought out the fact that the patient had been poorly for some months and was addicted to overdosing with drugs, and that his death was superinduced by a fever which appeared to have been malaria.

There were in the hospital last spring two cases of smallpox which had been admitted at last of the previous twelve months' period. These cases were convalescent, and were discharged during the month of April last.

The cases of plague in Hong-kong and vicinity of Canton have not been numerous during past season. In north China, more especially in Manchuria, a severe epidemic of pneumonic plague has continued for the last three or four months. Fortunately, there is no direct communication with north China with any of our ports. During the past month there was a sharp outbreak of Asiatic cholera in Honolulu,—31 cases, of which 22 were fatal, occurring before the disease was stamped out. The origin of this outbreak has not been explained, but has been attributed to infection brought from Philippine islands by coolie labourers.

The work undertaken during the year, in the nature of repairs and improvements, consisted in repairing wharves and roads and putting in new pipe to replace a stretch of defective piping and to give better fire protection. General repairs about buildings were made, also to plumbing, and the putting in of earthenware laundry tubs in steerage buildings was effected.

Last August I accompanied Dr. Montizambert, Director-General of Public Health, to Prince Rupert, when the reserve for the quarantine station was, in company with Dr. Tremayne, quarantine officer, carefully gone over and the location of buildings settled, more particularly that of the hospital now under construction. Beds, bedding, furniture and furnishings for this hospital have been selected, and will be on hand when this building is complete.

A 50-foot trunk cabin launch, the *Evelyn*, equipped with 25 H.P. gasoline engine, was built in Victoria during the year for the Prince Rupert station, building and equipment of launch being under the supervision of myself and the staff at William Head station.

The bacteriological laboratory has been more fully equipped, and under Dr. Walker's charge is in readiness for such work as may be required to be done there.

Darcy Island lazaretto has been occupied by but one leper during the twelve months. This case was that of a Hindu found in a railway construction camp near

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Kamloops. He was brought to Darcy island, where he remained some weeks, pending the sailing of a steamer which would take him on his way back to India.

I have the honour to be, sir,

Your obedient servant,

A. T. WATT, M.D.,

*Supt., B.C. Quarantines.*

The Honourable

The Minister of Agriculture,  
Ottawa.

## APPENDIX No. 10.

(R. L. FRASER, M.D.)

VICTORIA, B.C., March 31, 1911.

SIR,—Coasting vessels entering Victoria were exempt from inspection during the year, hence I have nothing of interest to report.

I have been prepared at any time to perform any duty assigned to me by Dr. Watt, Superintendent of Quarantines for B.C.

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. 11.

(L. N. MACKECHNIE, M.D.)

VANCOUVER, B.C., May 5, 1911.

SIR,—I have the honour to report that three vessels have been inspected by me, and that no case of contagious or infectious disease has been found during the past year.

I have the honour to be, sir,

Your obedient servant,

L. N. MACKECHNIE, M.D.,

*Quarantine Officer*

The Honourable

The Minister of Agriculture,  
Ottawa.

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## APPENDIX No. 12.

(H. ERNEST TREMAYNE.)

PRINCE RUPERT, B.C., April 14, 1911.

SIR,—I have the honour to submit my report for the year ended March 31, 1911. No quarantinable diseases of any kind were brought to this port during the above period.

In December, 1910, the new quarantine launch *Evelyn* arrived from Victoria under her own power.

I am glad to report that work has commenced on the new hospital. The site has been cleared and partially graded, and material for building being gathered on the ground.

I have the honour to be, sir,

Your obedient servant,

H. ERNEST TREMAYNE,

*Quarantine Officer*

The Honourable

The Minister of Agriculture,  
Ottawa.

## APPENDIX No. 13.

(J. A. LANGIS, M.D.)

TRACADIE, N.B., March 31, 1911.

SIR,—I have the honour to submit this my annual report of the Tracadie Lazaretto to March 31, 1911.

There are at present 21 patients at the hospital, 13 males and 8 females.

Four died during the year and five were admitted.

Seventeen are of French, two of English, one of Icelandic and one of Russian origin.

Ages of the patients vary from nine to seventy-nine years. One case, of the slighter form, anæsthetic, remains outside. Over this I keep a constant supervision, and before long I will have him at the hospital.

There has been much intercurrent illness among our patients during the winter months; one died of measles, of which disease we had a few cases. It likely was brought into our wards by visitors, relatives or friends of the inmates, who are permitted, with some restrictions, to visit them.

Of the five cases admitted during the year, two are old patients, who were sent home, disease being arrested, and who, by not following the doctor's advice to continue the same treatment, are just as bad, if not worse, as when they first came.

Mental influence has much to do in accelerating the course of the disease. Our long and weary winter months played on the mind of the poor inmates, who are forced

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to remain indoors. They are longing for the tardy but beautiful summer, when they can enjoy an incomparable sail, and inhale the invigorating breeze to their heart's content.

The good hygienic measures, including a regular system of healthy diet, the help and sympathy of all who are interested in their keeping, has great power in checking rapid progress of the disease, and their life is thereby prolonged.

I am pleased to report the best results with the treatment by chaulmoogra oil, strychnine, &c., especially in three cases. Unfortunately there are but few patients who can take the oil, and they have heard with pleasure of the introduction in the near future of Dr. Deycke's Nastin therapy.

The first experience we cite is that of the discoverer himself. Dr. Deycke reports that he was permitted to treat 112 out of the 440 inmates in the asylum at Mahaica, British Guiana. He did not select these patients, but took them as they offered themselves, hence he has treated all forms and grades of the disease, some of them very advanced and seemingly hopeless. 'The results,' he says, 'so far as purely anæsthetic cases were concerned, were far beyond my expectations; in fact there was not a single case which did not show some objective improvement. Of the tuberous cases, 90 per cent showed improvement.'

Prof. D. H. Ziemann, 'Report on Leprosy in the Cameroons (German West Africa)': 'In all of the cases treated with Nastin we had the most satisfactory results.'

The British, German and Dutch governments have introduced the Nastin therapy for the benefit of the unfortunate lepers, and I am pleased to say that our Canadian Government has already taken steps to introduce it at the Tracadie Lazaretto.

I have the honour to be, sir,

Your obedient servant.

J. H. LANGIS, M.D.,

*Medical Superintendent.*

The Honourable

The Minister of Agriculture.

Ottawa

## APPENDIX No. 14.

(CHAS. A. L. FISHER, J.P.)

MONTREAL, March 31, 1911.

SIR,—I have the honour to submit this my report for the twelve months ended March 31, 1911, as Public Works Health Inspector, for the territory from Winnipeg east to the Atlantic ocean.

During that period I have several times personally visited and inspected all such works covered by the Public Works Health Act, 1899, as have in any way 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.

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 adequate, and the sleeping quarters of the men to be fully equal to the very good conditions in that way reported last year.



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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.

The following is a detailed report of the works I have personally visited and inspected during the past twelve months, as coming, more or less, under the regulations of the Public Works Health Act, 1899.

#### NATIONAL TRANSCONTINENTAL RAILWAY.

This road is being built by the Dominion Government, and at present all the sections have been given out on contract, between Winnipeg and Moncton, N.B., and are now under construction, or completed.

I am pleased to report that on my visit to the works on said sections I found excellent hospital accommodation provided, the men comfortably housed and well fed, the camps in good sanitary condition, 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. 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 camps, with other particulars of the works carried on by the various sub-contractors.

Section from Winnipeg, east to junction of Grand Trunk Pacific branch, from Fort William, 245 miles. This is under contract to Mr. J. D. McArthur, of Winnipeg.

J. K. McLennan, M.D., of Winnipeg, is the chief medical officer on behalf of the contractor.

The J. D. McArthur Company, Limited, were doing this work, and about 300 men were employed, who were housed and boarded in boarding cars. There were two cases of typhoid, the general health of the men being good. There was one death from typhoid and one from accident. The General Hospital at St. Boniface was used.

Dr. McLennan personally looked after patients. This work is about completed, but has not yet been taken over from the contractor.

*Superior Junction Section.*—From Superior Junction east for 150 miles, to junction of the Nepigon section, let to Messrs. E. F. and G. E. Fauquier. This is under contract to Messrs. O'Brien, Fowler and McDougall Bros., who have their headquarters at Superior Junction, Ont.

J. E. Joseph, of Pembroke, 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, with John Brandon, M.D., as inspecting officer for the contractors.

Six hospitals were maintained on various parts of the contract. Access to the work is from West Fork, Ont., over the branch of the Grand Trunk Pacific railway from there to Superior Junction.

*Superior Junction Camps.*—Gravel Pit, Messrs. Morris Mackie & Co., Messrs. Anderson & Mason, the Pembroke Contracting Co., the Eastern Construction Co., Messrs. Bonfield & Harvey, A. J. Isbester, Messrs. Cameron & Chapelle, and Messrs. W. and A. McDougall Bros., being the sub-contractors, and a steel gang operated by the O'Brien, Fowler, and McDougall Bros. Company.

About 1,050 men were employed, who were located in sixteen camps, and housed and boarded in log and board dwellings by the sub-contractors, and the steel gang in boarding cars. The camps of the last three named contractors are now closed, their work having been completed.

There were twenty-one cases of typhoid fever, but the general health of the men and the sanitary conditions were good.

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There have been a number of minor accidents, one death from typhoid, one from general debility and seven from explosions. A good hospital (No. 1) is maintained for these camps, located on the work about twelve miles from Superior Junction. W. Graham, M.D., is the resident medical officer, and he, with Doctors Gordon L. Campbell and G. E. Denison, have been looking after the welfare of the men in the camps of the above-named contractors.

*Wako Camps.*—Entrance thereto was from Westfort, via Wako, Ont.

Messrs. Finlayson & Barry, Quebec Constructing Company, and Messrs. Reid & McEwen being the sub-contractors. These camps were closed last fall, the work being completed. Hospital No. 2, which was used for these camps, and was located about twelve miles east from No. 1, with Dr. L. W. Bourne as resident and district medical officer, was also closed last fall. There had been seven cases of typhoid, but no deaths.

*Heathcote Lake Camps.*—Entrance to these camps is from Superior Junction, Ont. Messrs. Fortin & Moffat, Fortin & Gravelle, and Reid & McEwen being the sub-contractors.

About 250 men were employed, who were distributed over six camps, and housed and boarded in log buildings by the sub-contractors. The general health of the men has been good, and also the sanitary conditions of the camps. There were two cases of typhoid fever, but there were no deaths. There was a number of minor accidents, but none serious. A good hospital is established there (No. 3), some miles east from No. 2, and for the past year has been in charge of the following medical officers as residents thereat: Paul Poissant, who was succeeded by L. W. Bourne, he by G. W. Campbell, and he by G. B. Bailey, who resides there and is the district medical officer of the camps at present.

*Nepigon 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 sublet it to the Nepigon Construction Company, Limited, who have their headquarters at Nepigon, Ont., and from which access is had to the work.

*Nepigon Camps.*—Messrs. McCaffrey & McQuigge, Sherwood & Russel, Chambers & McColeman, Wallace Mackie, I. W. Murray & Sons, W. T. Parsons, and H. Synn & Co., were the sub-contractors from the Nepigon Company. There were fourteen camps, access to which is by boat, then a tramway of fifteen miles, and then a boat over Lake Nepigon. About 550 men were employed, who were housed and boarded in log buildings by the sub-contractors. There were only five cases of typhoid fever, one of tuberculosis and one of erysipelas from all these camps, the general health of the men and the sanitary conditions of the camps being good. There were no serious accidents, and only three deaths, two from pneumonia and one of heart failure. There are two hospitals maintained, central to these camps, and R. McTavish, M.D., and J. W. Counter, M.D., are the district medical officers resident thereat.

A number of the above camps are now closed, the work being completed, and the Murray camps (concrete work) have been closed down for the winter.

*Missinaibi Section.*—This is the least and final section of the Transcontinental railway to be given out by the commissioners, and is under contract to Messrs. M. P. and J. T. Davis, of Quebec, who have sublet it to Messrs. O'Brien, McDougall & O'Gorman, the contract covering the route from the east end of the Nepigon work, for 150 miles further east, to the junction of the Abitibi west work, under contract to Messrs. E. F. & G. E. Fauquier.

*Missinaibi Camps.*—There are ten sub-contractors on this work, and about 700 men employed, who are located in twelve camps, and housed and boarded in wooden buildings by the sub-contractors. There were forty-one cases of typhoid (mostly from

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one camp, which had to be closed). There were six deaths from typhoid, and one from pneumonia. The general health of the men in the other camps and the sanitary conditions thereof was good. There was an hospital at Missinaibi river, and a main hospital on the completed line west of Cochrane. A. Henderson, M.D., of Cochrane, was the chief medical officer, and he had four district medical officers on the work and residing thereat.

*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.*—Messrs. Fauquier Bros., Bonneville & Co., Kennedy & Co., and Fournay & Co., are the sub-contractors.

About 250 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-contractors. There were no contagious or infectious diseases.

There was one death from dysentery, and a few serious accidents, but none fatal. 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, and G. A. Ramsay, A. L. Kinsey and H. W. Rogers have been the M.D.'s residing at the hospital and visiting the camps adjacent thereto. This contract is well advanced towards completion.

*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 sublet by them to Messrs. Foley, Welch & Stewart, who now have their headquarters at Cochrane, Ont. The entrance to this work is from Cochrane, Ont. Three hospitals are maintained on the work. John McCombe, M.D., is the chief medical officer, with four district medical officers as assistants.

*Abitibi East Camp.*—Messrs. McDougall Bros., Tomlinson & Co., Foley & Co., Andrea D. Shirbiuni & Co., Hogan & Johnson, and McPeake Bros., were the sub-contractors.

About 1,550 men were employed, who were located along the line in thirteen camps and several house cars, and boarded and housed in wooden buildings and cars by the sub-contractors.

There was one case of typhoid and four deaths, one burnt in shack, one crushed, one typhoid and one from heart failure. There were two serious accidents as above. The general health of the men and the sanitary conditions of the camps were good. Four excellent hospitals were maintained for these camps, located, No. 1 at Abitibi crossing, No. 2 at Whitefish, No. 3 at Harricanaw, and No. 4 at Deer river, each within easy access of and fairly central to the construction work and camps.

D. R. Cameron was the resident medical officer at No. 1, D. B. Kennedy at No. 2, A. B. Wickware at No. 3, and T. A. Brandon at No. 4.

*Ontario and Quebec Section.*—From the easterly limit of the Abitibi East Section, sublet to Messrs. Foley, Welch & Stewart, to a junction with the Quebec West Section at Weymontachene, Que., about 250 miles. This work is under direct contract to Messrs. Macdonnel & 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., D. R. MacDonald, Macdonnel Co., M. McCarthy, Doheny & Donovan, C. L. Hervey, Craig & Thompson,



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Doheny & Gordon, Frank Waters, Hugh Grant, H. McKinnon, Watters & McGlade, O'Brien & Martin, Donovan & Co., and Jackson & Connolly, are the sub-contractors.

About 2,985 men are employed, who are located along the line in thirty-six camps, and boarded and lodged in wooden buildings by the sub-contractors.

There were twelve cases of typhoid, one of pneumonia and one of epilepsy.

There were twenty-one deaths, two being from typhoid, one from pneumonia, one from epilepsy, two killed by falling rocks, one by falling off train and fourteen by three explosions. 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 about four miles west of La Tuque; No. 2 is located at the end of steel, and is an hospital car which is moved along the line as the work of laying steel progresses; No. 3 is located at East Cache, convenient as possible for the west camps of the work.

Doctors Thos. H. Jackson, T. L. Raymond and James J. Binny 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 St. Maurice hospital, four miles west from La Tuque, and takes charge of and gives the work his general supervision.

*Quebec Section West.*—Quebec Section, District B., from Weymontachene, Que., east to a point a few miles northwest of La Tuque village, a distance of about forty-five miles.

This section was let to the Grand Trunk Pacific Construction Company, and was sublet by them to Messrs. Macdonnel & O'Brien. Entrance to this work is now obtained over the Transcontinental railway on the section now completed by Messrs. Macdonnel & O'Brien from Hervey Junction to a few miles northwest of La Tuque, a distance of about 100 miles. This work is completed.

*Weymontachene Camps.*—Messrs. Macdonnel & Co., Craig & Thompson, Doheny & Donovan, H. McKinnon, M. McCarthy, and D. R. McDonald, were the sub-contractors.

About 350 men were employed, who were located in five camps at various points running east along the line, and were housed and boarded in good log and board buildings by the sub-contractors.

There were four cases of typhoid fever, with two deaths therefrom, and one from fracture of skull. The St. Maurice hospital was used for these camps, and A. L. Raymond was the district medical officer. This work is now completed.

*Vermilion Camps.*—Messrs. O'Brien & Martin, Hugh Grant, D. R. McDonald, and a steam shovel outfit, were the sub-contractors.

About 400 men were employed, who were located in five camps about one mile apart, and boarded and housed in good log and board buildings by the sub-contractors.

There were no contagious or infectious diseases, deaths or serious accidents, and the health of the men and the sanitary conditions of the camps were good. The St. Maurice hospital, about four miles west from La Tuque, where John McCombe, M.D., makes his headquarters, is used for these camps, and J. C. Byers and P. O. Coulombe, M.D.'s, were the district medical officers thereof. This work is now completed.

*Quebec Section East, District B.*—From a point near the Quebec bridge easterly for a distance of 150 miles. This section is under contract to Messrs. M. P. and J. T. Davis, of Quebec, and is about completed with the exception of the steel.

*Notre Dame du Lac Camps.*—Messrs. Caviachi & Pegano are the sub-contractors.

About 200 men were employed, who were located in three camps, and boarded and housed in good board buildings by the sub-contractors. There were no contagious diseases or deaths and no serious accidents. The health of the men was excellent and the sanitary conditions of camps good.

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F. B. Prigay was the district medical officer of the work. This work is near completion, and has been closed for the winter months.

*New Brunswick Section, District A.*—From a point near Grand Falls, westerly to the boundary between the provinces of New Brunswick and Quebec, a distance of about sixty-two miles. This was let to Messrs. Lyons & White, who have made their headquarters at Edmundston, N.B., and sublet the work to various sub-contractors, all of whom have completed their contracts with the exception of Messrs. Kennedy & Macdonald, who had about 275 men employed and located in four camps, distributed along the whole route. There had been no contagious or infectious diseases and no deaths. The general health of the men and the sanitary conditions of the camps had been fairly good. The general hospital at St. Basile, N.B., is used. Doctors J. A. Guy and A. M. Sarmony are the district medical officers. The camps have been closed since the end of November last, but the work is not completed.

*Grand Falls Section, District A.*—From a point near Grand Falls, N.B., to Plaster Rock, N.B., thirty-one and a half miles. This is under contract to the Willard Kitchen Company, who have their headquarters at Grand Falls, N.B.

*Grand Falls Camps.*—Messrs. M. F. Hinniger, Johnson Bros., Whitehead Bros., and J. C. Kitchen, were the sub-contractors.

About 350 men were employed, who were located in seven camps, and housed and boarded by the sub-contractors in wooden buildings. There had been no contagious or infectious diseases, serious accidents, and one death, the general health of the men being excellent and the sanitary condition of the camps good.

A temporary hospital is maintained at Grand Falls. B. A. Puddington, M.D., is the district medical officer of the work, which is well advanced.

*Grand Falls Camps.*—Messrs. Phillips & Burden and Harry Kitchen are the sub-contractors.

About 75 men were employed, who were located in two camps, and housed and boarded in wooden buildings by the sub-contractors. There had been no contagious diseases and no deaths, the general health of the men being good. J. D. Coffin, M.D., is the district medical officer of these camps. Work has been shut down since December last.

*Plaster Rock Section, District A.*—From Plaster Rock to Chipman, N.B., 107 miles. There are two divisions in the above distance, one of 67 miles and one of 40 miles, both under contract to the Grand Trunk Pacific Construction Company, who sublet them to the Toronto Construction Company, who make their headquarters for the work at Plaster Rock.

There were twelve camps, about 500 men being employed, who were housed and boarded in good board camps by the sub-contractor. There had been no contagious or infectious disease, serious accidents or deaths, the health of the men and the general sanitary conditions being good. An hospital was provided at Plaster Rock. J. D. Coffin, M.D., was the district medical officer. This work is now completed.

*Cross Creek and Boiestown Camps.*—From the junction of the Plaster Rock camps east to Chipman. There were ten sub-contractors, but 1,063 men employed, who were located in sixteen camps.

There had been no contagious or infectious disease, but there were two deaths from accidents. The general health of the men and the sanitary condition of the camps were good. The men were housed and boarded in good log and board buildings and in boarding cars by the sub-contractors. An excellent hospital was maintained at Chipman, N.B., by H. B. Hay, M.D., who was the chief medical officer of these camps, and had A. Sterling, M.D., at Cross Creek, and L. Chapman, M.D., at Boiestown, N.B., as district medical officers. This work is now completed.



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*Chipman Section, District A.*—From Chipman, N.B., east, eight miles. John W. McMames Co. are the contractors. There are two camps, with about 75 men employed, who are housed in log and board buildings, some boarding themselves, others boarded by the contractors.

There had been no contagious diseases and no deaths. The general health and sanitary conditions were fairly good. H. B. Hay, M.D., is the medical officer of the work, as his hospital at Chipman is used.

*Moncton Section, District A.*—Some eight miles east of Chipman to Moncton, N.B., 50 miles. This is under contract to the Grand Trunk Pacific Construction Company, and was sublet by them to the Corbitt Floisch Company.

About 550 men were employed, who were well housed in five camps, and boarded by the sub-contractors, with the exception of a few who lived in that locality. There had been no contagious diseases or deaths, with a few minor accidents. The general health of the men was good and the sanitary conditions excellent. Dr. Hay's hospital at Chipman and the general hospital at Moncton were used. H. B. Hay, M.D., of Chipman, was the chief medical officer, and attended the men in the eastern camps, and E. R. Meyers, M.D., of Moncton, attended the men of the western camps. This work is now completed.

## CANADIAN NORTHERN ONTARIO RAILWAY.

*Selwood Branch.*—From Sudbury, Ont., north about 32 miles, to Gowganda Junction, has been completed, and the line is now being extended another 15 miles westerly. Messrs. Mackenzie, Mann & Co., of Toronto, are the chief contractors, and Angus Sinclair, C.E., the sub-contractor.

About 200 men are employed, who are boarded and housed in log and frame buildings, well located and ventilated. There had been no contagious disease and no deaths. A temporary hospital is located on the work, under the charge of W. M. Robertson, M.D., who is the district medical officer.

*Toronto-Ottawa branch,* from Toronto to Ottawa, passing through east Toronto, Port Hope, Cobourg, Belleville, &c., to connect at Ottawa with the Canadian Northern, Quebec railway from Montreal. This work is under contract to Messrs. Mackenzie, Mann & Co., of Toronto, who have sublet the same to Angus Sinclair, C.E., of Toronto, who is again subletting it out in small contracts. Work is being carried on from various points, at which camps have been established, and several hundred men are employed, some of them being boarded and housed in buildings or tents by the sub-contractors and some of them boarding themselves, and as the route runs through a thickly settled district, many of the employees live in their own homes. There has been no contagious disease and no deaths, the health of the men and the sanitary conditions and surroundings good. No special hospitals are required, the general hospitals at Toronto, Port Hope, Cobourg and Belleville being handy to the work, and are used when necessary.

Local medical men are employed, and Doctors W. R. Walters, of East Toronto, W. W. McKinley, of Port Hope, J. P. Mitchell, of Cobourg, and B. J. P. McCulloch, of Belleville, are the district medical officers, and they cover the work at present under construction.

## THE ALGOMA CENTRAL AND HUDSON BAY RAILWAY.

*Main Line Extension.*—From mile 68 to mile 194, a connection with the Canadian Pacific railway at Hobon, Ont. The O'Boyle Construction Company are the contractors, and they have sublet to Messrs. Murdoch Bros. the first nineteen miles, and to Messrs. Caviachi & Pegano the balance of the work. About 850 men are employed,

who are located in thirteen camps distributed along the route, and are housed in good log and board buildings by the sub-contractors. There were ten cases of typhoid fever and two of diphtheria. There was one death from diphtheria, one from tonsillitis and one from cardiac failure. The general health of the men and the sanitary conditions of the camp are good. Two good hospitals with nurses are maintained, one at Hobon and one at the Goudreau mine, both of which are convenient for the camps. Mr. R. McLean, M.D., of Sault Ste. Marie, is the chief medical officer, and Doctors W. L. McCullough and H. A. Turofsky are each residing at one of the hospitals, and are the district medical officers of camps.

*Magpie Branch.*—From mile 18 to Magpie mine, a distance of nine miles. This work is under contract to the O'Boyle Bros. Construction Company, and they are doing the work. About 200 men are employed, who are located in three camps, and housed and boarded in good log buildings by the contractors. There were a few cases of typhoid (evidently brought on when the camps were started), but no deaths therefrom. There was one death from accident, and one from debility. There is an hospital within easy reach of the three camps, and Dr. Hale is the resident and district medical officer. James R. McLean is the chief medical officer of this work.

*Manitoulin and North Shore Railway.*—From Little Current, Ont., north to Whitefish, a distance of 18 miles. The O'Boyle Bros. Construction Company are the chief contractors, and they have sublet the same to De Bona and Orlando Bros. About 350 men are employed, who are located in five camps situated at Whitefish, Haystack Harbour, Indian Village and Swift Current. The men are boarded and housed in log buildings by the sub-contractors. There has been no contagious disease or deaths; the general health of the men and sanitary conditions of the camps are good. The general hospitals at Sudbury or Sault Ste. Marie are used when necessary. James R. McLean, M.D., is the chief medical officer of this work, and Dr. H. M. Elliott is the district medical officer, with residence at Little Current, Ont.

*The Canadian and Gulf Terminal Railway.*—From Ste. Flavie to Matane, Que., a distance of 36 miles. Mr. Hugh Doheny was the contractor. About 400 men were employed, most of whom lived in their own homes or boarded in the surrounding villages. There was no contagious or serious disease and no death. Local doctors at Ste. Flavie, Metis, Sandy Bay, Rivière Blanche, and Matane, were employed by the contractor when necessary, but no charge was made on the men for medical service. This work is now completed.

On the above public work during the past twelve months, which cover the territory east from Winnipeg, there was an average of 14,173 men employed, with 56 qualified medical officers in charge of camps. There were cases of,—

Typhoid fever. . . . .	108
Tuberculosis. . . . .	1
Diphtheria. . . . .	1
Deaths, as under. . . . .	57
Typhoid fever. . . . .	12
Pneumonia. . . . .	5
Tonsillitis. . . . .	1
Epilepsy. . . . .	1
Dysentery. . . . .	1
Diphtheria. . . . .	1
Heart failure. . . . .	2
General debility. . . . .	3
Killed by falling rocks. . . . .	2
Fracture of skull. . . . .	1
Jumped off train. . . . .	1

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Crushed. . . . .	1
Burnt in shack. . . . .	1
Accidents. . . . .	4
Explosions. . . . .	21

In closing this report for the twelve months ending March 31, 1911, I am pleased to be able to draw your attention to the few cases of contagious and infectious diseases I have had to report; considering the very large body of men employed, their general healthfulness, the sanitary conditions of the camps, and the care and attention given by the contractors and medical officers in trying to carry out and fulfil such clauses of the regulations of the Public Works Health Act, 1899, as may have been thought necessary by your inspector.

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.

## APPENDIX No. 15.

(A. E. CLENDENAN, M.D.)

EDMONTON, ALBERTA, March 31, 1911.

SIR,—I have the honour to submit a report for the year ended March 31, 1911, as Public Works Health Inspector, for the four western provinces.

There has been a very considerable increase over previous years in the amount of public work. The most important are the railroad, bridge and irrigation ditch construction. Only these require mention in the report, and will be taken up nearly in the order in which the different works have been visited.

The medical service has on the whole been very good. More local practitioners and a smaller percentage of medical men who follow railroading are now in the service. The few remaining ones of the last mentioned class are select and competent men. The local doctor, in order to build up or maintain a reputation, is under the necessity of doing good work in his own neighbourhood, and proves best as a rule.

Wherever convenient the old-established hospitals in cities and towns are employed in preference to the necessarily inferior ones erected temporarily on the works. Employees prefer to go farther for the better accommodation, and a greater latitude has been allowed in mileage to meet their wishes. The trans-mountain works have more hospitals than the prairie works, on account of the larger number of accidents, and the greater difficulty of moving patients. Everywhere it appears to be conceded that the better the service and the quicker the patient is well the greater the profit or the less is the loss to the men furnishing medical accommodation. On all work except the Canadian Northern railway the chief contractor employs the doctors and provides hospitals. In that company one firm of doctors put on the entire service, with their headquarters in Winnipeg and Vancouver.

Many minor complaints, mostly verbal, have come to the attention of your inspector, and the most of them on investigation arose from unavoidable causes and misunderstandings or were entirely specious. In case of major complaints, so soon

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as a request was made to the delinquent the offences were remedied at once, with one or two exceptions.

On the prairie, tents are used almost entirely, and in the mountains both tents and board and log buildings. Throughout the work the employees are well fed and pretty well housed. It is the custom in western Canada for employees to furnish their own bedding. Prices of clothing at the camp stores range high. Temperance and little gambling and good order and regular hours prevail while on the work. A large majority of employees are inconstant, natural ramblers, and give themselves unnecessary hardships moving about, instead of accumulating either clothing or money.

The general health condition on the whole has been good. Two exceptions worthy of special notice should be mentioned, namely, numerous cases of mountain fever on the Grand Trunk Pacific east of the Yellowhead Pass, and typhoid fever on the Southern Alberta Irrigation Company's ditches, where three camps were ordered shut down to check an epidemic. Last season was the worst for many years for flies, and apparently directly associated with it typhoid was prevalent, especially in the southern drier parts of the prairie provinces.

The following works were inspected:—

*Canadian Northern Railway—Calgary Branch.*—Chief contractor, Janse, McDonald & Timothy. Thirteen sub-contractors. 422 men. Hospitals at Stettler and on the line, with Dr. Howson in charge.

*Grand Trunk Pacific Railway—Tofield-Calgary Branch.*—Chief contractor, George H. Webster. Ten sub-contractors. 250 men. Hospitals at Alix and Trochu. Dr. Graham in charge of northerly portion, and Dr. Milne of the southerly portion, part of the season. The medical service was unsatisfactory on the latter part, and necessitated extra inspections and correspondence of forcible character.

*Canadian Pacific Railway—Macklin-Moosejaw Line.*—Chief contractor, Janse, McDonald & Timothy. Sub-contractors, 20. Men, 195. Hospital at Macklin; Dr. Kydd in charge.

*Grand Trunk Pacific Railway, Young to 30 Miles North Branch.*—Chief contractor, James Osborne. Sub-contractors, four. Men, 140. Hospital at Viscount, with Dr. H. W. Paddell in charge.

*Canadian Pacific Railway—Colonsay to 40 Miles South.*—Chief contractor, J. Bradley. Sub-contractors, 6. Men, 108. Hospital at Viscount, with Dr. H. W. Paddell in charge.

*Canadian Pacific Railway—Outlook-McKinnon.*—Chief contractor, W. Dutton. Sub-contractors, seven. Men, 230. Hospital at Rosetown, Dr. Stewart in charge.

*Grand Trunk Pacific Railway—Battleford-Biggar Branch.*—Chief contractor, J. Daudelins. Sub-contractors, four. Men, 90. Hospital, South Battleford, with Dr. Stanley Miller in charge.

*Canadian Pacific Railway—Tilson West.*—Chief Contractor, P. Lamb. Sub-contractors, six. Men, 90. Hospital and doctor both in Tilson. P. Lamb had neglected to put on a service up to the time of my visit.

*Canadian Pacific Railway—Weyburn-Lethbridge Extension.*—Chief contractor, C. H. Richards. Sub-contractors, three. Men, 132. Hospital at Weyburn, Dr. W. A. Nichol in charge.

*Canadian Northern Railway—Moosejaw Branch.*—Cowan Construction Company, Chief contractors. Sub-contractors, eight. Men, 223. Hospital on line, Dr. Lyall in charge.



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*Canadian Northern Railway—Maryfield Extension.*—Chief contractors, Cowan Construction Company. Sub-contractors, two. Men, 200. Hospital on line, Dr. Lyall in charge.

*Grand Trunk Pacific Railway—Regina-Portal.*—Chief contractor, J. D. McArthur Company. Sub-contractors, three. Men, 107. Hospital, Regina. Drs. Thompson, Regina, and Dr. Tupper, of Francis, in charge.

*Canadian Northern Railway—Crooked Lake Branch.*—Chief contractor, Cowan Construction Company. Sub-contractors, five. Men, 275. Hospital at Prince Albert. Dr. Proctor on line. Dr. King in charge of hospital.

*Canadian Northern Railway—Shellbrook-Battleford.*—Chief contractor, Cowan Construction Company. Sub-contractors, three. Men, 70. Same medical service as next above.

*Canadian Northern Railway—Thunder Hill Branch.*—Chief contractors, Mc-Millan Bros. & Kenny. Sub-contractors, four. Men, 165. Tent hospital. Dr. Vesey, Canora, in charge.

*Grand Trunk Pacific Railway—Canora-Yorkton Branch.*—Chief contractor, Peter Veregin. Four camps. Men, 174. Hospital, Victorian Order hospital at Yorkton. Dr. Patrick, of Yorkton, and Dr. Vesey, of Canora, in charge.

*Canadian Pacific Railway—Double Track, Winnipeg-Brandon.*—Chief contractor, J. G. Hargreaves & Company, Limited. Sub-contractors, 12. Men, 76. Hospital, Portage la Prairie. Dr. Walkey, of High Bluff, in charge.

*Canadian Northern Railway—Oak Point Extension.*—Chief contractors, Cowan Construction Company. Sub-contractors, three. Men, 220. Hospitals on line, in charge of Dr. Story.

*Grand Trunk Pacific—Main Line, Prince Rupert End.*—Chief contractors, Foley, Welch & Stewart. Sub-contractors, 43. Men, 2,143. Hospitals at Prince Rupert, Kitsalas and Hazelton. Dr. Ewing in charge. Assistants, Dr. Eggert, Dr. Johns, Dr. Traynor, Dr. Stewart.

*Portland Canal Short Line Railroad Company.*—Chief contractor, Westholme Lumber Company. Sub-contractor, Sol. Cameron. Men, 150. Hospital, Stewart City hospital. Dr. Elliott in charge.

*Canadian Northern Pacific Railway Company.*—Chief contractor, Northern Construction Company. Sub-contractors, four. Men, 175. Hospitals, New Westminster. Dr. R. MacKenzie in charge. Assistants, Drs. James and McCaffrey.

*Canadian Pacific Railway—Dukeston-Steele.*—Chief contractors, Foley, Welch & Stewart. Sub-contractors, one. Men, 555. Hospital, Cranbrook. In charge of Drs. King and Green.

*Great Northern Railway—Princeton-Tulameen.*—Chief contractor, J. W. Stewart & Company. Sub-contractors, five. Men, 535. Hospital at Hedley. In charge of Dr. McEwen.

*Canadian Pacific Railway—Nanaimo-Alberni.*—Chief contractor, Janse, McDonald & Timothy. Sub-contractors, seven. Men, 762. Hospital, Mile 18. Dr. Ker in charge. Assistants, Dr. McArthur and Dr. Hilton.

*Great Northern Railway—Abbotsford to Chilliwack.*—Chief contractor, J. W. Stewart & Company. Sub-contractor, P. Welsh & Company. Six camps. Men, 300. Hospital at Sumas, Washington. In charge of Dr. T. A. Swift.



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*Grand Trunk Pacific Railway—Main Line, Wolf Creek-Tete Jaune Cache.*—Chief contractor, Foley, Welch & Stewart. Sub-contractors, 48. Men, 2,421. Hospitals, Big Eddy, Mile 42, and Prairie Creek. In charge of Dr. Richardson. Assistants, Dr. Shillabeer, Dr. Myers, Dr. Baker.

Two inspections were made during the summer season. Throughout an epidemic of mountain fever the medical service was successfully maintained. A third inspection was made during the winter just past.

*Alberta Central Railroad Company—Red Deer-Rocky Mountain House.*—Chief contractor, the Company. Men, 285. Hospital, Red Deer. Dr. Collison in charge.

*Canadian Northern Railway—Brazeau Line.*—Chief contractor, Northern Construction Company. Sub-contractors, 16. Men, 546. Hospital, Stettler. Dr. Honey in charge.

*Grand Trunk Pacific Railway—Melville-Regina.*—Chief contractor, J. D. McArthur Company. Sub-contractors, four. Men, 231. Hospital at Fort Qu'Appelle. Dr. Hall in charge.

*Canadian Pacific Railway—Carmangay Line.*—Chief contractor, Foley, Welch & Stewart. Sub-contractors, six. Men, 150. Hospital at Calgary. Dr. H. V. Brown in charge.

*Canadian Pacific Railway—Irricana Branch.*—Chief contractor, Foley, Welch & Stewart. Sub-contractors, eight. Men, 111. Hospital at Calgary. In charge of Dr. Girvin.

*Canadian Northern Railway—Morinville Line.*—Chief contractor, Malcolm McCrimmon. Sub-contractors, two. Men, 77. Hospital at Edmonton. Dr. Braithwaite in charge. Dr. Amyot on the line.

*Canadian Pacific Railway—Irrigation Ditch.*—Chief contractor on earth work, Frank Jackson. Sub-contractors, five. Men, 86. Chief contractor, concrete work, George H. Archibald & Company. Men, 100. Chief contractor on timber work, Hayden & Skeene. Men, 12. Hospital, Calgary. Dr. Girvin in charge.

*Canadian Pacific Railway—Irrigation Ditch.*—Chief contractor, Janse, McDonald & Timothy. Sub-contractors, four. Men, 100. Walker, Fish Company, dam work. Men, 45. Hospital at Calgary. Dr. Ker in charge. Dr. Harris on works.

*Southern Alberta Irrigation Company.*—Chief contractor, J. D. McArthur Co. Sub-contractors, 24. Men, 537. Hospital at Carmangay. Dr. Bryans in charge, Dr. Richardson, assistant. Hospital at Gleichen, in charge of Dr. Rose.

On account of epidemic of typhoid during the fall months, three camps were ordered closed.

*Canadian Pacific Railway—Edmonton-Strathcona Bridge.*—Chief contractor, John Gunn & Sons. Men, 175. Hospital at Edmonton. Dr. Archibald in charge.

*Grand Trunk Pacific Railway—Battle River Bridge.*—Chief contractor, Hill & Son. Men, 80. Hospital at Alix. Dr. Graham in charge.

*Canadian Northern Railway—Red Deer River Bridge, Vegreville-Calgary Branch.*—Chief contractor, C. F. O'Connor in charge of work. Men, 200. Hospital at Stettler. Dr. G. M. Gibson in charge.

*Dominion Government Bridge at The Pas.*—Chief contractor, Canadian Northern Railway, R. W. Graham in charge. Men, 140. Small hospital on ground. Dr. J. H. Davies in charge. The service was not up to the requirements of the Health Act.

Yours obediently,

A. E. CLENDENAN, M.D.,  
Public Works Health Inspector.

The Honourable  
The Minister of Agriculture,  
Ottawa.

## APPENDIX No. 16.

## EXHIBITIONS.

LONDON, ENGLAND, March 31, 1911.

SIR.—I beg to submit the following report on the operations of this branch of the service for the twelve months ended March 31, 1911.

Acting under your instructions, I left Seattle for Belgium at the end of October, 1909, in order to prepare for our participation in the Universal and International Exposition of Brussels, of 1910. I arrived in Brussels in the middle of November, and immediately secured the site on which our pavilion was erected.

The exhibition grounds were contiguous, on the eastern side, to the beautiful park called 'Bois de la Cambre,' and they were of easy access from the city, several tramway lines running by the numerous entrances to the exhibition. I selected the site for our building in what I considered a very good part of the grounds, and I am glad to state that the large number of visitors we had proved that the spot was a popular one.

The contract for the erection of the Canadian pavilion was given to Messrs. Humphreys Ltd., Knightsbridge, London, who did the work to my entire satisfaction.

The official opening of the Brussels Exposition took place on April 23, and as at this date our building, the inside decoration and installation, in fact the whole of our exhibit was entirely completed, the pavilion was opened to the public. I may say here that, as at the time very few of the main buildings were in a state of completion, this had for immediate effect to divert the rush of the visitors towards our exhibit, thus insuring from the very first day the success of our participation, at least as far as attendance was concerned.

The Canadian exhibit was divided into sections, in which were displayed the products of agriculture, horticulture, fisheries, forestry, specimens of Canadian fauna, and minerals. Some pieces of agricultural machinery were also shown.

We had a fine display of commercial fruit from the different fruit-producing provinces of the Dominion. The display of our apples was particularly effective.

The mineral exhibit was a very comprehensive one, including almost all the minerals known in the world. This section was constantly visited by a large number of scientists and students, who were all very eulogistic in their appreciation.

The forestry section contained a large number of fine specimens of pulpwood as well as softwood for building and decorative purposes, and a painted scene representing a pulpwood forest. There was also a display of Canadian hardwoods used for finishing purposes, and a painted panorama of a beaver lake and dam.

The fish exhibit consisted of a numerous collection of Canadian fish, the majority mounted with the natural skins and the rest being gelatine and plaster casts.

The large scene called 'Past and Present' attracted a great deal of attention. This scene illustrates the progress of civilization and colonization in the northwestern part of Canada. Several beautifully mounted specimens of Canadian fauna were exhibited in the section.

The display of crude and manufactured agricultural products, such as flour from different Canadian mills, cereals, &c., was highly commented upon by the public.

Another section was the representation of a western farm, grain elevators and miniature railroad, which familiarized the visitors with the manner in which the grain of the farmer is handled and disposed of.

The decoration of the interior of the pavilion, which had been executed entirely by members of the Canadian staff, was very much admired and praised. Features of

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the decoration scheme consisted of a large number of very rare mounted specimens of heads of wild animals, and a series of remarkable transparencies that formed a frieze all around the pavilion and illustrated the importance of the industries of the Dominion.

A great deal of statistical and other information was conveyed to the public by means of inscriptions in French, English, Dutch, Flemish and German, on panels judiciously distributed throughout the exhibit.

I may mention here, as an instance of the success of our exhibit, that several commissioners, and also members of the Executive Committee of the exhibition, expressed the opinion that the manner in which the Canadian exhibit was displayed was a most effective and rational one. As a matter of fact in some instances leave was asked by members of other commissions to make sketches showing the disposition of the sections and the installation of our exhibits, for use in future exhibitions.

Very large numbers of visitors of all European nationalities visited daily our exhibit. Excursions from France, Germany, Holland, Sweden, &c., and from all over Belgium, have been running into Brussels during the whole time of the exhibition, and the best evidence that our exhibit was visited by these people rests in the fact that the huge quantity of literature on Canada that we had for distribution, in French, English, German, Dutch, Flemish, Swedish, &c., was all given away. We distributed in this way over three hundred and fifty thousand pieces of literature.

We also had the honour of visits from the King and Queen of Belgium, the Countess of Flanders, Prince Henri of Holland, Prince Ethel of Germany, the Tsar of Bulgaria, who visited us twice, and his two sons, &c. All these personalities congratulated us on the effectiveness and success of our exhibit.

It was a great pleasure for us to receive a large number of Canadian visitors, among whom the Honourable Mr. Fielding, the Honourable Mr. Fisher, the Honourable Mr. Lemieux, the Honourable Mr. Paterson, the Honourable Mr. Mackenzie King, the Honourable Mr. Walter Scott, who were all quite delighted to see the keen interest taken in our exhibit.

In summing up, I may say that there is no doubt whatever that our participation in the Brussels Exposition made our country very popular among all classes and nationalities in Europe. The name of Canada was to be heard everywhere, and her products, resources and possibilities were enthusiastically spoken of by everybody. Numerous inquiries were made every day from the members of the Canadian staff with regard to emigration and commerce. Magnificent results must, therefore, be obtained.

The Brussels Exposition closed its doors on the 3rd of November, and I immediately left for London to prepare for our participation in the Festival of Empire and Imperial Exhibition to be held this year at Crystal Palace, from May to October. We have secured a beautiful site for our pavilion, which will be a replica of the central parliament building in Ottawa, the erection of which is well under way. This exhibition is due to open on May 12 next, and we will be quite ready by that time to receive the visitors, and submit to their appreciation an exhibit that, I earnestly hope, will be a credit to Canada and to the department over which you preside.

The whole respectfully submitted.

WM. HUTCHISON,  
*Canadian Exhibition Commissioner.*

The Honourable  
The Minister of Agriculture,  
Ottawa.

## APPENDIX No. 17.

## TOBACCO.

OTTAWA, April 13, 1911.

SIR,—I have the honour to present a report on the work done by the Tobacco Division, from April 1, 1910, to March 31, 1911.

This work was performed at the various experimental stations of the division, in Quebec and Ontario, and at the experimental field of the Central Farm, Ottawa.

The experimental field of the Central Farm was utilized chiefly in the production of seed for the annual distribution. During the past few years tobacco seed was forwarded regularly, in the first days of March, to the growers who applied for it. Experience has taught us that, with some varieties of tobacco, seed grown in Canada gives better results than imported seed. Although it offers no great difficulty, yet the work of producing seed requires considerable care, and this is why we want to do it ourselves. The expenses incurred and the extra work involved, owing to the fact that seed plants have to be left standing in the centre of the experimental field (which increases the difficulty of harvesting), are amply compensated by the fact that we are getting a uniform type of tobacco in all parts of Canada, wherever this seed is being used. In this way, seeds of doubtful quality and purity are gradually being displaced, and real Canadian types are being established in place of mixed strains, too often grown heretofore, the product of natural crosses or of careless culture.

In spite of a few injuries sustained by our crop, viz.: the frost of June 4, which caused the appearance of the mosaic disease and compelled us to cut down the number of plants selected for seed-bearing, and an attack of the Tarnished Plant Bug (end of July), a sufficient quantity of selected seeds was produced for our needs in 1911. However, it would have been better if a quantity twice as large had been produced, so as to enable us to distribute two-year old seed, the latter being preferable to fresh seed.

Two imported varieties, Vérel and Montmélian, were tested on a plot of our experimental field.

These varieties, acclimatized in the southeast of France, where they produce cut plub tobacco and wrappers for cheap cigars, may, in Canada, yield products a little stronger than the Quebec seed leafs (Connecticut seed leaf, Havana seed leaf, &c.), but, so far as the burning quality is concerned, they are better than the latter which, owing to their fine tissues, burn too rapidly to make real pipe tobacco.

The object of our first experiment was to ascertain the vitality of the seeds imported in Canada since 1905, and to produce a sufficient quantity of seed to carry on a larger experiment during the season of 1911. We have found that these two varieties may be grown quite well in Quebec. They are early enough, no more liable to diseases than other varieties generally grown in this part of Canada, and their characteristics, so far as manner of growth and shape are concerned, are well maintained. The leaves, especially those of the Vérel, are a little thicker than those of the Comstock, but the burning quality is good, and the product is certainly mild enough to be used as pipe tobacco, or at least to be blended with finer varieties which have been employed for this purpose until now, and which burn too quickly or are too brittle.

Of course, better results would be obtained if these varieties were grown in those parts of Canada where climatic conditions are more nearly similar to those of their country of origin. Some parts of Nova Scotia (Annapolis valley) would appear to be



particularly suitable. The summer is longer than in Quebec, not quite so warm, and the autumn, being warmer, although perhaps a little damper than is desirable, would certainly afford favourable conditions for the curing of tobacco, if harvested in the middle of September, although these varieties are rather large in size and their leaves a little thick. It is chiefly in view of the work that is to be undertaken shortly in Nova Scotia that these varieties were grown. We wanted to find out how they would behave in Canada, and, at the same time, produce a sufficient quantity of seed to start experiments in this new tobacco growing centre.

STATIONS OF ST. JACQUES L'ACHIGAN AND ST. CESAIRE (QUEBEC).

The results of the work done on these two stations, as well as on the Harrow station, are given in a special report of the Tobacco Division, published as Bulletin No. A-12.

The most critical time in tobacco culture in the province of Quebec is assuredly the period from the middle of March to the middle of April, when the seedlings are being grown in beds, to be set out in the first days of June. The setting-out cannot be long deferred, as the crop would suffer from the early autumn frosts. Therefore, for nearly two months, the young seedlings have to contend with the hardships of the spring, which is generally late and cold.

The precautions necessary in connection with this work have already been dealt with in some of our publications, but they will bear repeating, as a great many growers are apt to be neglectful in this respect.

Until recently we have advocated, especially for the province of Quebec, thin seeding and the use of moderately hot-beds, kept sufficiently moist so as to stimulate the growth of the seedlings.

These beds may be frequently aerated, which is a great advantage, as beds where seedlings are too thick and where fresh air is lacking are too often attacked by diseases.

However, in order to secure the required temperature and maintain it during a sufficient length of time, a large quantity of manure is necessary, which is an objection. Moreover, the heating of the layer of manure underneath the soil induces the growth of mushrooms, which uproot the seedlings, and cause losses, when in large numbers.

The assistant in charge of the Quebec stations, Mr. Chevalier, has endeavoured to overcome this difficulty. In preparing the beds at the St. Jacques station in 1910 he has followed a new method: he does away with the layer of hot manure and uses in its place a layer of packed tobacco stems and a layer of straw; but he keeps the glazed sash, which is necessary in Quebec. The same layer of earth as in other hot-beds is placed over this layer of tobacco stems and straw. Thus the seed bed is insulated at the bottom by the layer of stems mentioned, and at the top by a thick layer of air; furthermore, in order to avoid the cooling of the beds, the frame is surrounded with a layer of fresh and strawy manure almost up to the top of the glazed sashes.

The seedlings grown on this bed are ready to be set out almost as soon as those of the hot-beds. This method has several advantages, viz.: there is not so much dampness, no mushrooms can grow, and the bottom of the bed affords natural drainage by means of which any excess of water may readily escape. All tobacco growers have the necessary material for these beds, and it is to be hoped they will be adopted by all who think that the making of the regular hot-bed involves too much labour and too much care.

The experiment with chemical fertilizers, started last year, has been resumed on the farm plots during the season of 1910.



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The results are very much the same as those of the year previous. The soil in which this experiment is conducted is not very rich, and the object is to restore its fertility. This result will be achieved in time, and it will be the most valuable practical demonstration for the growers of the district of what may be obtained by a good system of farming. At present, owing to the improvements already made on the St. Jacques station, the average yield is from three to four hundred pounds per acre higher than the average obtained by neighbouring growers.

An attempt was made to check the attacks of the Cut-worm and Wire-worm on newly set-out seedlings. The use of nicotine oxalate and Paris green in solution, either alone or in combination, has shown that it is possible to reduce the losses considerably. Nicotine oxalate has given very good results, but the experiment will not be resumed until we can secure a sufficient quantity of this insecticide to treat a fairly large crop. This product is rather costly owing to the high price of nicotine; however, when used in combination with Paris green, it is possible that its use may prove advantageous.

Our recently originated hybrids: Comstock x Sumatra (Yamaska), and Big Ohio x Sumatra, have fully realized their promise. The former has yielded a fairly large crop that will be fermented and the product submitted to the manufacturers.

A comparative test of the two varieties, Brewer hybrid and Yamaska, was made at the St. Césaire station. The terrific hailstorm of August 8 practically destroyed our crop, barely leaving a few seed plants.

## HARROW STATION (SOUTHERN ESSEX, ONT.).

During the season of 1910, the following varieties were grown on this station, chiefly for seed production: Burley, Warne (Virginia Bright), and some other varieties such as Big Ohio, Connecticut Broad Leaf, &c.

This year, as well as last year, the beds were prepared with great care; unfortunately, it was found that a sheet of cotton cloth, spread over the frames, is insufficient protection for the ordinary bed. All the beds covered with glazed sashes at our station yielded a large number of seedlings, whilst the number of failures in Essex and Kent counties was nearly as large as during the spring of 1909.

In his report, Mr. Barnett describes the various methods tried on the Harrow station, and the Ontario growers will choose the one best adapted to their conditions. The cost of glazed sashes will be amply and quickly repaid by the increased profits which will accrue from the use of such beds.

The setting out of the seedlings presented many difficulties this year.

Owing to the long drought from May 20 to the middle of June, it was necessary to prepare the land in such a way that it might keep as much moisture as possible, and that this moisture might be within easy reach of the roots of the young plants. Therefore very thorough and careful cultivation had to be given. Special attention is called to the packing, which was done almost immediately before transplanting; this operation is almost indispensable on tobacco soils, which are generally light.

In spite of all these precautions, the recovery was very slow, and the growth remained practically stationary during nearly a month; therefore, the crop was late and did not ripen at the most favourable time, that is during the first part of September.

The report of the assistant in charge contains an account of experiments carried on with a view to check the attacks of the Horn-worm, the great pest of the Ontario growers. These experiments were fairly successful; ducks have proved to be most valuable in this connection; they are certainly the best and least expensive agent that can be used in the destruction of Horn-worms.

Various experiments of chemical fertilizers and farm-yard manure undertaken in 1909 were resumed in 1910. In a general way the results obtained during the previous

season were confirmed. A careful perusal of Mr. Barnet's report will enable the Ontario grower to ascertain the advantages of mixtures of fertilizers. In each of the experiments the yield was so largely increased that the cost of fertilizers was covered twice, if not three times.

Among the elements required by the tobacco plant, nitrogen and potash are the most important, whilst the application of phosphoric acid has comparatively little effect on the tobacco lands of Essex county.

The conclusion is that the tobacco soils of Ontario require liberal applications of manure. As to potash, here as elsewhere it deserves to be called the chief constituent of tobacco, as whenever the application of this element was reduced, a decrease was observed in the yield in weight.

In spite of the long drought the yield of Burley was satisfactory. The average weight per acre reached 1,560 lbs., which is above the average for the year.

The growing of Virginia, started in 1909, was resumed in 1910 on the same area (about six acres). Although not favourable to this variety, the season of 1909 was, however, better than the preceding one. The proportion of yellow and light-red tobacco was much larger in the crop of 1910 than in the crop of 1909. In a normal year, when the growth is not checked by cold weather or by a long drought, it is quite possible to secure satisfactory products, so far as colour is concerned. We are not so positive as to tissue. The comparatively high proportion of lime in Essex tobacco soils may possibly prevent the production of yellow tobacco possessing sufficient suppleness and elasticity.

The plot set apart for Virginia tobacco in 1911 is situated on the highest and best drained part of the station; it is believed to be well suited for the growing of this variety, and we shall endeavour to hasten maturity as much as possible by large applications of superphosphate (acid phosphate). If the desired colour can be obtained, an effort will be made afterwards to improve the tissue, but this part of our work may meet with some difficulties.

So far, experiments conducted with Virginia tobacco in Ontario have given interesting results, but they should not be taken as positive proof that this variety is profitable, as its culture is not as yet out of the experimental stage. The high prices paid for yellow tobacco by some manufacturers clearly show that they are interested in the production of this strain, but these prices must not be taken as a basis in computing the value of the product. That the growing of Virginia will be profitable in Ontario is not at all certain as, in order to leave a profit, this tobacco should sell at fifty per cent more than the average Burley leaf, and the yield should be increased to 1,200 or 1,300 lbs. per acre, whilst at present it is only in the neighbourhood of 1,000 lbs.

The Harrow station, established only two years ago, already attracts the attention of Ontario growers. The number of requests for Burley seed received last spring was 680; this is a large proportion of the 2,000 men who are growing this variety in that part of Canada. It is a proof that the work of the Harrow station is being appreciated, and many of these applications commented favourably on the seeds supplied the preceding year.

#### BRITISH COLUMBIA.

Until 1910 I was not able to visit this part of Canada until late in the season, when the tobacco had been hung up in the curing shed for some time, and the curing pretty well advanced. I was more fortunate last summer. I arrived in Okanagan valley towards the end of August, and could better judge the situation of the tobacco industry in British Columbia. The observations suggested by this visit are given in Bulletin No. A-10 of the Tobacco Division.

The area planted in tobacco at Kelowna in 1910 was double that of the previous year. Furthermore, a number of trials were made in various parts of the province,

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and judging by the number of requests for information received at this office and of applications for seed, these trials are to be resumed on a larger scale.

There is no doubt that the filler tobacco that can be grown in the Okanagan valley will find a ready sale on the Canadian market, and this industry should by all means be encouraged. It will be interesting to note the results of the trials that are to be undertaken on the coast this year, and on Vancouver island, where climatic conditions are so different.

The conditions are not so favourable as might be desired, particularly so far as labour is concerned, but in any case, considering the special class of immigrants who come into British Columbia, much tobacco can be grown on a small scale, along with the fruit industry. A little co-operation will do the rest. A number of growers could put their crops together to receive proper treatment and be marketed in the shape required.

## NOVA SCOTIA.

It was only during the course of last summer that I was able to pay a long-delayed visit to the valley of Annapolis. I was far from expecting to find conditions so favourable for tobacco culture. This part of Canada seems to be particularly suited for the growing of pipe tobacco, of the seed leaf type. Until the present time this kind of tobacco was grown in the province of Quebec; but the tissue of the leaf is rather too fine, and consequently it burns too quickly. Furthermore, owing to the drought which prevails almost regularly through most of the summer, it often happens that the tobacco, although thin, is a little strong in nicotine. The milder climate of the Annapolis valley and the longer season will enable the growers to obtain, with the same varieties, products with a firmer tissue, burning more slowly and comparatively lighter.

Tobacco is certainly one of the most profitable crops that can be grown in new orchards, before these have come into bearing, so long as there is not too much shade. The orchard will be benefited to some extent by the fertilizers applied to the tobacco, such as farm-yard manure, chemical fertilizers, green manuring (clover or other legumes), and the grower who has only limited resources will not have to wait so long for results, as the net yield of a field of tobacco, well cared for, is larger than that of an orchard coming into bearing.

## CONCLUSIONS.

As a whole, the season of 1910-11 was rather favourable in spite of difficulties experienced in setting out the crop.

The fall was late and mild, which enabled the Quebec growers to harvest their tobacco before the first frosts, whilst the Ontario Burleys made the most of their growth during September. Generally speaking, the colour of the Burley was a little darker this year than in an average year, when the crop is cut earlier and when curing takes place more rapidly. However, this defect has not had any serious consequences for the growers of Essex and Kent, as tobacco sold as high as 19 cents per lb.

A low production during the two preceding years, exhausted stocks and a more active competition account for this rise in prices. It is also an indication that a larger quantity of Canadian tobacco is being manufactured in Canada every year and that it gives complete satisfaction.

There is a strong movement in favour of tobacco growing in many parts of Canada.

The number of requests received from British Columbia, Nova Scotia, Prince Edward Island and New Brunswick for information and for seed has been greater

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than ever, and certainly the season of 1911-12 will yet see greater progress owing to the profitable prices realized by some growers in 1911 and the more active demand.

I have the honour to be, sir,

Your obedient servant,

F. CHARLAN.

*Chief of Tobacco Division.*

The Honourable  
The Minister of Agriculture,  
Ottawa.



## APPENDIX No. 18.

REGULATIONS GOVERNING THE INSPECTION OF PRESERVED FRUITS,  
VEGETABLES AND MILK.

*(By Order in Council, July 6th, 1910.)*

1. In these regulations, unless the context otherwise requires,—

(a) 'The Act' means the Meat and Canned Foods Act;

(b) 'The Minister' means the Minister of Agriculture;

(c) 'The Department' means the Department of Agriculture;

(d) 'establishment' means any factory, cannery, evaporating plant, or other place or premises in which fruits, vegetables, or fruit or vegetable products are processed, canned, bottled, evaporated, dried, or otherwise preserved for food for export, or in which milk is condensed, evaporated, or otherwise preserved for food for export, or in which any of the articles aforementioned are stored for export;

(e) 'export' means export out of Canada, or out of any province to any other province thereof;

(f) 'food' includes every article used for food or drink by man, and every ingredient intended for mixing with the food or drink of man for any purpose;

(g) 'inspector' means an inspector appointed under the Act;

(h) 'regulations' means these regulations made under the provisions of the Act;

(i) 'products' mean anything, prepared from fruit or vegetables, or any condensed or evaporated milk;

(j) 'container' means any receptacle made of wood, glass, earthenware, or metallic substance, whether hermetically sealed or intended to be so sealed, or otherwise;

(k) 'package' means any can or other container in which products are packed, or any box, basket, or other receptacle used for their transportation, or anything in which products are wrapped up or bound together.

2. These regulations shall apply to all establishments within the meaning of paragraph (d) of section 1 hereof.

3. The Minister may, as provided in the Act, appoint inspectors who shall, from time to time, visit each establishment for the purpose of seeing that the provisions of the Act and of these regulations are duly observed and complied with.

4. Inspectors shall, in the performance of their official duties, wear a numbered badge provided by the department.

5. Inspectors shall furnish to the Veterinary Director General full and detailed reports of all inspections made by them, and of such other matters as may, in the public interest, be deemed necessary or advisable.

6. The following sanitary conditions shall be observed and maintained in all establishments:—

(a) All establishments shall be suitably lighted and ventilated;

(b) All appliances, such as tables, trucks, vats, machines, kettles, containers, &c., shall be kept clean and sanitary;

(c) All operations in connection with the preparation or packing of products shall be carried on carefully, and with strict cleanliness;



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(d) Rooms in which articles intended for food are stored, processed, or otherwise prepared, shall be scraped, scrubbed, whitewashed, painted, or otherwise dealt with at such times as may be deemed necessary by an inspector, and shall contain facilities for cleaning all equipment;

(e) Employees of any establishment engaged in handling articles intended for food must be free from tuberculosis or other communicable disease, and must observe such general sanitary rules as may be deemed necessary by the inspector;

(f) No articles entering into the production of food shall be allowed to come in contact with anything that will contaminate or deteriorate them;

(g) Coverings used by employees to protect their clothing or persons shall be of material easily cleaned, and shall be kept reasonably clean;

(h) Dressing rooms and lavatory accommodations shall be ample, sanitary and fully equipped, and shall be entirely apart from any room or compartment used for the storing or production of food or of articles intended for food;

(i) All yards, outhouses, or other premises belonging to or used in connection with any establishment shall be maintained in a clean and sanitary condition, and shall not be used for the emptying or storing of refuse;

(j) The drainage, if any, in connection with establishments shall be ample, and kept in proper working order;

(k) No lavatory, sink, or cesspool shall be so situated or maintained as to permit any odours or fumes therefrom to pervade any room where food or articles intended for food are prepared or stored.

7. All fruits, vegetables, milk, or other articles used in any establishment shall be sound, wholesome, and in every way fit for food.

8. All fruits, vegetables, milk, or other articles intended to be used for food, found by an inspector in any establishment, whether in course of preparation or after they have been prepared, to be decomposed, diseased, or in any way unfit for food purposes, shall be confiscated by the inspector and destroyed under his supervision.

9. No food or food product shall contain any deleterious drug, dye, or preservative, or other foreign substance injurious to health.

(2) Pending the issue by the Inland Revenue Department of its regulations relating to Food Standards, no drug, dye, preservative, or seasoning which has not been approved in writing by the Veterinary Director General, shall be used in the preparation or packing of any food product.

(3) Proprietors of establishments will be furnished by the Veterinary Director General with a list of approved dyes, drugs and preservatives. Any proprietor of an establishment may also submit to the Veterinary Director General for his approval any dye, drug, preservative, or seasoning which he may desire to use, and in the event of any such preparation being approved, its use shall be permitted.

10. With the object of preventing the use of deleterious substances, inspectors shall, as often as deemed advisable, procure samples of the preservatives used, as also of the different food products during their preparation, or after the same have been prepared, and shall submit them without delay to the Veterinary Director General.

The proprietor of any establishment shall, upon request of an inspector, furnish to him free of charge any sample or samples of foods or food products, or of any preservative, seasoning, or other ingredient used in the preparation of foods. Samples so obtained must be sealed, labelled and marked with a description of the same, together with the inspector's name and the date, and forwarded at once to the Veterinary Director General.

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11. Containers in which vegetables, milk, or other articles intended for food are finally placed, shall be clean and sanitary, and, if previously used, must be thoroughly sterilized immediately prior to being filled.

12. Containers or packages in which fruits, vegetables, milk, or other articles prepared for food in any establishment are placed shall be marked, unless otherwise ordered by the Governor in Council, with:—

(a) The initials of the christian names, the full surname, and the address, or, in the case of a firm or corporation, the firm or corporate name and address of the packer, or of the first dealer obtaining it direct from the packer who sells or offers the same for sale. Such dealer shall, upon the request of the inspector appointed under this Act, disclose the name of the packer of such articles;

(b) A true and correct description of the contents of the package.

These requirements shall be embodied upon a trade label, stencil, or lithographed design, which shall be of a size reasonably proportionate to the size of the container or package, having thereon, as provided above, the name and address of the packer or of the first dealer, and a true and correct description of the contents.

13. No container or package shall bear any label or mark of any kind which falsely represents the nature or quantity or weight of its contents, or the date when such contents were packed.

14. No person shall offer for export or shall export any fruits or vegetables, or fruit or vegetable products, canned, bottled, evaporated, dried, or otherwise preserved for food, or any milk, condensed, evaporated, or otherwise preserved for food, in any establishment, unless the requirements of section 12 of these regulations as regards labelling have been complied with in respect to such articles.

## APPENDIX No. 19.

## REGULATIONS

UNDER THE DESTRUCTIVE INSECT AND PEST ACT.

*(Passed by Order in Council, February 27, 1911.)*

1. 'Inspector' means a person appointed for carrying out the provisions of the Destructive Insect and Pest Act and the Regulations made thereunder.

2. No tree, plant or other vegetation or vegetable matter infested with any of the insects, pests or diseases to which this Act applies, shall be imported into Canada except as hereinafter provided.

3. Nursery stock, including all trees, shrubs, plants, vines, grafts, scions, cuttings or buds which are not hereinafter exempted, entering Canada, shall be imported only through the ports and during the periods respectively hereinafter mentioned, that is to say:—

Vancouver, B.C., from October 1st to May 1st.

Niagara Falls, Ont., from October 1st to May 15th.

Winnipeg, Man., and St. John, N.B., from March 15th to May 15th, and from October 7th to December 7th.

Windsor, Ont., and St. Johns, P.Q., from March 15th to May 15th, and from September 26th to December 7th.

At these points of entry the importations shall be fumigated in the fumigation houses provided for that purpose, and a certificate of fumigation will be issued, without which no stock may be taken out of bond.

Importations by mail shall be subject to the same regulations.

All nursery stock originating in Japan or in any one of the States of Vermont, New Hampshire, Maine, Massachusetts, Connecticut and Rhode Island, six of the United States of America, shall, after fumigation, be subject to inspection as provided by Section 6 of these regulations.

Provided, however, that the following vegetation and florists' stock shall be exempt from fumigation and may be imported at any season of the year and through any port without inspection:—

(a) Greenhouse grown plants, including roses in foliage which have been grown in pots up to three inches in diameter but not larger. A certificate that the plants have been grown under glass must accompany the invoice and shall be signed by the consignor.

(b) Herbaceous perennials (the stems of which die down in winter), such as perennial phlox, peonies, sunflowers, &c.

(c) Herbaceous bedding plants (such as geraniums, verbenas, pansies, &c.).

(d) Bulbs and tubers (such as hyacinths, lilies, narcissi and other true bulbs, and also the tubers of dahlias, irises, &c.).

(e) Cotton wood or Necklace Poplar (*Populus deltoides*) when shipped from and grown in Dakota or Minnesota, two of the United States of America.

4. The port by which it is intended that the nursery stock shall enter shall be clearly stated on each package, and all shipments made in accordance with these regulations will be entirely at the risk of the shippers or consignees, the government assuming no responsibility whatever.

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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, Experimental Farm, Ottawa, within five days of despatching the order for the same, and they shall again notify the Dominion Entomologist on the arrival of the shipment in Canada.

Notice shall also be given to the Dominion Entomologist by all transportation companies, Custom House Brokers or 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. Such notice shall include the name of the consignor and the consignee, the points of origin and destination, the name of the company carrying the nursery stock, as well as the nature, quantity and origin of the same.

6. Nursery stock, not including such stock as is exempt under section 3 of these regulations, originating in Europe, shall be imported only through the ports and during the periods specified under section 3 for stock requiring fumigation, with the addition of the ports of Halifax, N.S., Sherbrooke, P.Q., and Montreal, P. Q., through which ports such European stock may enter from September 15th to May 15th. Such European nursery stock, and such other imported vegetation as the Minister may determine, entering Canada, shall be exempt from fumigation, but shall be inspected, either at the port of entry, or at its destination to which it may be allowed to proceed, but in the latter case it must not be unpacked except in the presence of an inspector.

7. If, on inspection, nursery stock or other vegetation or vegetable matter is found to be infested with any of the insects, pests or diseases hereinafter specified, it shall be destroyed to the extent deemed necessary by the inspector and in his presence. All cases, packages and packing in which such stock has been contained shall also be destroyed in the same manner.

8. Any inspector entering any lands, nursery or other premises where there is reason to believe that any of the insects, pests or diseases hereinafter specified are or may be present, shall give instructions for the treatment or destruction of any tree, bush, crop or other vegetation or vegetable matter or the containers thereof, which may be found or suspected to be infested with any of the insects, pests or diseases hereinafter specified, and such instructions shall be carried out by the owner or lessee of the infected or suspected vegetation, vegetable matter, or containers thereof, and such remedial treatment shall be carried out and continued until the insect, pest or disease shall be deemed by the inspector to have been exterminated.

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.

10. It shall be illegal to sell, offer for sale or in any way dispose of or receive any trees, shrubs, or other plants, vegetable matter or portions of the same, if the same are infested with any of the insects, pests or diseases hereinafter specified.

11. The owner, occupier or lessee of any premises or place where any of the insects, pests or diseases specified herein shall be found, shall immediately notify the Minister, and shall also send to him specimens of such insects, pests or diseases.

12. The destructive insects, pests, and diseases to which the said Act shall apply shall include the following:—

The San José Scale (*Aspidiotus perniciosus*).

The Brown-tail Moth (*Euproctis chrysorrhoea*).

The Woolly Aphis (*Schizoneura lanigera*).

The West Indian Peach Scale (*Aulacaspis pentagona*).  
The Gypsy Moth (*Porthetria dispar*).  
Potato Canker (*Chrysophlyctis endobiotica*).  
Parasitic diseases affecting potatoes externally or internally.  
Branch or Stem Canker (*Nectria ditissima*).  
Gooseberry Mildew (*Sphærotheca mors-uvæ*).  
White Pine Blister Rust (*Peridermium strobi*).

13. The importation of potatoes into Canada from Newfoundland or the Islands of St. Pierre or Miquelon is prohibited.

14. The Minister may, upon special request to that effect, authorize the importation into Canada of any insect, pest or disease herein specified, but for scientific purposes only.

15. The regulations made under the San José Scale Act are repealed.



## APPENDIX No. 20.

## REGULATIONS UNDER 'THE MILK TEST ACT.'

1. The duty of verifying the glassware which comes under the provisions of *The Milk Test Act* is hereby assigned to the standards Branch, Department of Inland Revenue, Ottawa.

2. All test bottles, pipettes, or measuring glasses, used in connection with the testing of milk or cream, except skim-milk bottles and the tubes used in connection with the apparatus known as the 'Oil Test Churn,' shall be forwarded, *charges pre-paid*, to the Standards Branch, Department of Inland Revenue, Ottawa, for the purpose of verification.

3. All glassware sent for verification shall be received and returned at the owner's risk.

4. All glassware sent for verification must be perfectly clean on both the inside and outside surfaces.

5. The Chief Inspector of Weights and Measures shall cause each bottle, pipette or measuring glass that is found correct within an error of one-tenth per cent, plus or minus, to be ineffaceably marked with the outline of a crown, having within it the initial letter of the reigning sovereign, and any such glassware not being found correct within the error herein specified, he shall cause to be destroyed without compensation to the owners thereof.

6. The fee for the verification of milk test glassware shall be 5 cents for each test bottle, pipette or measuring glass, which amount shall be forwarded to the Standards Branch, Department of Inland Revenue, Ottawa, with each consignment of glassware to be verified.

7. Packages containing glassware for verification must be plainly addressed, and bear the sender's name and post office address, thus:—

<p>To the Standards Branch, Department of Inland Revenue, Ottawa, Ont.</p> <p>From John Jones, Montreal, Que.</p>
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8. A memorandum in the following form shall be inclosed with the glassware in each package:—

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## Milk Test Glassware.

To the Standards Branch,  
 Department of Inland Revenue,  
 Ottawa, Ont.

SIRS,—Please receive herewith the following milk test glassware for verification.

Number of Pieces.	Description.	Fees.
.....	.....	.....
.....	.....	.....
.....	.....	.....
.....	.....	.....
.....	.....	.....
.....	.....	.....

Inclosed please find.....in payment of fees.

This glassware is to be returned to John Jones, Montreal, Que.

9. Any person who violates any of the provisions of *The Milk Test Act* or the regulations made thereunder, shall be liable, on summary conviction thereof, to a fine not exceeding fifty dollars for each offence.

## APPENDIX No. 21.

CANADIAN ARCHIVES—REPORT OF THE WORK OF THE  
BRANCH FOR THE YEAR 1910.

To the Hon. SYDNEY FISHER,  
Minister of Agriculture,  
Ottawa.

SIR,—I have the honour to submit to you a report of the work of the  
Branch for the year 1910.

LIST OF MANUSCRIPTS RECEIVED AND PLACED ON THE  
SHELVES IN ROOMS No. 8 AND 11.

## FROM ENGLAND.

## PUBLIC RECORD OFFICE.

Colonial Correspondence, Vol. I., C.O. No. 42  
Murray's letters to the Board of Trade 1763-64.

*Contents of Parts I. and II.*

- |                             |  |
|-----------------------------|--|
| Canada, 1763                | Mahier, Michael, petition to the Commissioners of Trade and Commerce: Claiming compensation for the destruction of his manor of Les Monts Louis, in 1758, by a detachment of Admiral Boscawen's squadron, and praying to be restored to the same.  |
| Montreal,<br>Jan. 14.       | Colonel Thomas Gage to Commissioners of Trade and Commerce: Acknowledging the receipt of His Majesty's instructions for altering the form of prayers.  |
| Three<br>Rivers,<br>May 31  | Colonel R. Burton to the Board of Trade: Acknowledging receipt of Board's letter of March 9, &c., and transmitting an answer to the heads of enquiry concerning the state of that government.  |
| Montreal,<br>May 23.        | Colonel Thomas Gage to Board of Trade: Acknowledging receipt of Board's letter of March 9, &c., and transmitting an answer to the heads of enquiry concerning that government.   |
| Montreal,<br>May 23.        | Colonel Gage's answers to the Heads of Enquiry relative to the government of Montreal.   |
| Three<br>Rivers,<br>May 31. | Colonel Burton's answers to the Heads of Enquiry relative to the government of Trois-Rivières.   |
| Montreal,<br>July 31.       | Major General Gage, Lt.-Governor of Montreal, to Board of Trade: Informing them that he has directed a day of public thanksgiving to be observed; that certain persons from New England have attempted to make settlements on the King's lands near Lake Champlain, and that the Indians in the Province continue peaceable. |
| Three<br>Rivers,<br>Aug. 2. | Colonel Burton, Lt. Governor of Trois-Rivières to Board of Trade: Informing them that a day of public thanksgiving has been observed on account of the peace.  |

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1763.  
Quebec,  
Sept. 12.
- Governor Murray to the Earl of Shelburne: Recommending Mr. John Gray for the confirmation of his grant for the Post of Great Mekatinat, to which M. Hocquart lately put in his claim; and desiring a grant for the Post of Cape Chat for Mr. Richard Murray: and enclosing two papers.
- Quebec,  
Sept. 7.  
1762.
- The same to the Earl of Egremont. A 10, copied in C. O. 42, vol. 24. Q. 1, p. 41.
- Quebec,  
Sept. 7.  
1762.
- The same to the same. Private. A. 11. Copied in C. O. 42, vol. 24. Q 1, p. 45.
- Quebec,  
Sept. 14. '63.
- The same to the Earl of Shelburne. Has received several applications from French laity and clergy relative to a form of Church government desired by them: speaks of the conduct of the Canadians as irreproachable; need of quieting their minds in regard to religion. M. Montgolfier, Vicar General of Montreal, on his way to England; severely criticizes his behaviour. Praises M. Bryant, Vicar General of Quebec. Northern Indians peaceable: depredations of New England men. Recommends M. Cramahé for a grant of the Post of Labrador, and encloses five papers: viz.:—
- Religion and loyalty of French Canadians.
- Sept. 12.  
Quebec.
- (1) Adresse à Son Excellente Majesté le Roy par le Chapitre de Québec. A 13. Copied in C. O. 42, vol. 24. Q 1, p. 234.
- Feb. 26, 1761.
- (2) Copy of a letter from M. Montgolfier, Vicar General of Quebec, to M. Houdin (personal). In Murray's letter of September 14, 1763.
- 1763.
- (3) Translation of a declaration dated Little Chippagan, August 10, and of Louis Brisard's deposition, September 13, 1763.
- Depredations by new England Fishermen.
- (4) Translation of a certificate dated Miscou, August 9, and copy of Louis Brisard's deposition, September 13, 1763.
- (5) Copy of the depositions of Pierre Valière, François Gosselin, and Louis Brisard, September 13, 1763.
- Quebec,  
Oct. 2.
- Governor Murray to the Earl of Shelburne. Recommending Messrs. Marteilhe and Mounier to His Lordship's favour, and enclosing their petition *re* proposed fishing and trading post on lands on the south of the Baye des Chaleurs.
- Quebec.
- Memorial of John Marteilhe, of London, to the Board, desiring a confirmation of his purchase of an estate and island in Lake Champlain from M. Maître François Daine.
- London,  
Feb. 23.
- Memorial of Mr. Hugh Finlay, desiring that the island of Miscou may be granted to him, to carry on the fishery of sea cows, and the right to lay up his vessels in the River of Karaket.
- Quebec,
- Memorial of Benjamin Price and William Knutton of Quebec, merchants, desiring a grant of lands for a settlement between the River à Claude and Gaspée Cape.
- Quebec,
- Memorial of Captain John Nairne and Lieutenant Malcolm Fraser to the Board, praying the Royal confirmation of grants of a tract of land called Malbaye, made to him by Governor Murray.
- Treasury Chambers,  
Dec. 13.
- Letter from Mr. Jenkinson, Secretary to the Lords of the Treasury, to Mr. Pownall, Secretary to the Board of Trade, desiring him to move the Board that copies may be transmitted to him of all the papers in their office relative to revenues and duties received by the French King in Canada and the Grenades; and accounts of revenues collected by the King's governors since they became a part of his dominions.
- Quebec.  
Duty on British Brandy.
- Indian posts.
- Memorial of the merchants and others trading to Canada to the Board of Trade: *Re* duty of 6d a gallon on British brandy imported into Canada; freedom of trade with Canada; opening of Indian posts; increase and encouragement of Labrador fisheries, &c.; grain and hemp growing by

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Labrador  
Fisheries.  
Protestant  
Settlers.  
Canadian  
Post.

St. James',  
Dec. 16.  
1763.

Quebec,  
Oct. 23.

Protestant settlers; inconvenience arising from want of regular post between Great Britain and Canada.

The Earl of Halifax to the Board, transmitting, for their consideration and report, copies of a letter from the Sieur de la Fontaine, and of memorials setting forth his claim to the post and islands of Mingan on the coast of Labrador, and complaining of Governor Murray's proceedings in dispossessing him of the said post and islands, and granting or leasing them to certain English merchants.

De la Fontaine to the Secretary of State. A 28. Copied in C.O. 42, vol. 24, Q 1, p. 186.

Memoire de la propriété et possession des héritiers Joliet, &c., dans les Isles de Mingan. A 29. Copied in C.O. 42, vol. 24. Q 1, p. 201.

10 Mars 1679.

Copie du Titre du Fief des Isles de Mingan. A 30. Copied in C.O. 42, vol. 24. Q 1, p. 191.

Memoire pour servir à justifier la possession des Héritiers Bissot et Joliet du Poste du Mingan situé à la Coste du Nord du fleuve St. Laurent en terre ferme. Copied in C.O. 42, vol. 24. Q 1, p. 195.

Copie de la lettre écrite par Le sieur Panet, notaire, au Sieur de la Fontaine. A 31. Copied in C.O. 42, vol. 24. Q. 1, p. 190.

Permission Pour Monsieur De la Fontaine d'exploiter Nontagamion et Mekatinat (Murray, June 15, 1761.).

Subsequent to the representation on the case of the Sieur de la Fontaine a letter from the Secretary of State, dated January 5, 1764, signified the King's approbation of the Board's representation, and directed them to transmit to Governor Murray copies of the papers of Sieur de la Fontaine, requiring him to answer. Quebec bundle A 33. And a letter from the Board was sent to the said Governor. Quebec Entries A 159.

St. James',  
Jan. 5.

Halifax to Lords of Trade. A 33. Copied in C.O. 42, vol. 25, p. 1 Q. 2, p. 1.

1764.  
London,  
Jan.

Memorial of several merchants trading to Canada, desiring that, until they are heard, the Board will not come to any determination with respect to a late application to their Lordships from certain merchants trading to that country.

Quebec,  
Feb. 19.

Governor Murray to the Board of Trade, inclosing: Memorial relative to the Oil Posts from the merchants of Quebec. A 52. Copied in C.O. 42, vol. 25, p. 73. Q 2, p. 84.

Quebec.

Memorial of Denys Vitrey to the Board of Trade, praying for the grant of a tract of land on the north side of the Bay of Gaspée, for establishing a pilotage and carrying on the fishery. (Map.).

London,  
Feb. 22.

Alex., Robt., and Wm. Grant to Secretary Pownall: requesting that a liberty may be given by Act of Parliament to import salt into the province of Quebec from Spain, Portugal, or France.

Court of St.  
James',  
April 17.

Order of His Majesty in Council directing draughts of warrants to be prepared empowering the governors of Quebec, West Florida and Grenada to use the new seals.

St. James'.  
April 17.  
Treasury  
Chambers.

Lord Halifax to Board of Trade, enclosing warrants above referred to. Jenkinson to Pownall; asking for a copy of such part of the Governor of Quebec's instructions as relates to the revenue.

Dartmouth.

Memorial of Henry Sparks, of Dartmouth, merchant, praying for a grant of a tract of land in "Gaspey, Port Daniel or Bona-Adventura or any other place in the Bay of Chaleur," for the purpose of carrying on a fishery.



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1764.  
London,  
March 6.  
Memorial of Chartier de Lotbinière, praying His Majesty's confirmation of two concessions (by French King, annexed) of lands on Lakes Champlain and St. Sacrament.
- St. James's  
May 21.  
Halifax to Lords of Trade. A 42. Copied in C.O. 42, vol. 25, p. 133. Q 2, p. 89.
- Quebec,  
March 9.  
Governor Murray to the Earl of Halifax. A 43. Copied in C.O. 42, vol. 25, p. 115. Q 2, p. 78.
- Quebec,  
Aug. 30, 1763.  
Quebec,  
Oct. 1, 1763.  
Memorial of Sir Charles Davers, on behalf of himself and four other officers, for a grant of land on the river St. Lawrence, in the government of Montreal.
- Quebec,  
Forges.  
Proclamation of General Gage *re* above memorial.
- London,  
Jan. 21, 1764.  
Memorial of Mr. John Marteilhe, of Quebec, merchant, *re* forges at Three Rivers, with accounts, particulars, &c.
- Post of King's  
domain.  
Quebec,  
Jan. 26, 1763.  
John Gray to the Board: *Re* the posts of the King's domain in Canada, and inclosing:  
Copy of a memorial of Richard Murray, John Gray, and Thomas Dunn to the Lords of the Treasury, *re* posts referred to.
- Smuggling.  
Quebec,  
Sept. 27, 1763.  
Governor Murray to the Board. *Re* means of preventing smuggling.  
The same to the Earl of Egremont. A 49. Copied in C.O. 42, vol. 24. Q 1, p. 156.
1764.  
Quebec,  
Jan. 26.  
The same to the Board: Informs their lordships that he has received their letter of October 10 last, inclosing the King's proclamation of the 7th of that month.
- Quebec,  
April 24.  
The same to the same. A 53. Copied in C.O. 42, vol. 25, p. 157. Q 2, p. 107.
1764.  
Quebec,  
April 24.  
Governor Murray's answer to the complaint lodged against him by Monsieur De La Fontaine in his letter to the Earl of Halifax, dated October 23, 1763, and in two memorials enclosed therewith. A 54. Copied in C.O. 42, vol. 25, p. 161. Q 2, p. 111.
- Montreal,  
Feb. 1.  
Lt.-Governor Burton to the Board giving an account of some disturbances in Montreal, and of the measures taken by him in consequence of the same, and inclosing 3 papers relating to the matter (affidavits, &c.).
- Quebec.  
Petition of Brook Watson for himself and companions, *re* seal fishery on Labrador coast.
- Montreal,  
April 23.  
Lt.-Governor Burton to the Board, acknowledging receipt of a proclamation enclosed in a letter from their lordships of March 9, 1763, to the commander in chief, and enclosing: Copy of his own proclamation *re* Indian trade with the upper countries, dated Montreal, April, 17, 1764.
- Treasury  
Chambers,  
June 27.  
Thomas Whately to John Pownall. Informs him that an extract of Governor Murray's letter has been sent to the Lords of the Admiralty, who have been requested to instruct Governor Murray to give information respecting the smuggling trade carried on in Quebec to Lord Colville. The Lords of the Treasury are informed that a Vice-Admiralty court has been erected at Quebec.
- Montreal,  
April 1.  
Remonstrance and Petition (in English and in French) of the gentry, merchants, &c., of Montreal, to the Board, *re* the appointment of an agent by the inhabitants of the city of Quebec; licences for Indian trade; freedom of posts, grants, and the St. Lawrence river fishery; wharves, and ships cleared to and from Montreal.
- Quebec,  
April 12.  
Governor Murray to the Board: In answer to their lordships' letter of January 10 last, *re* complaints of M. De La Fontaine, and enclosing copy of above petition and remonstrance. Also: copy of his letter to Lt.-Gov. Burton of Montreal, dated April 11, *re* same matter.

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Quebec,  
April 23. The same to the same. Transmits memorial of Messrs. Johnston and Purss, dated April 19, *re* grant made by the governor of the battery contiguous to their house in the Lower Town.
- Quebec,  
June 26. The same to the same. Transmits papers relating to M. de la Fontaine's complaint (Nos. 391 to 726) with list, titles, &c. Also, *re* the communication of the Micmacs with the French at St. Pierre and Miquelon; with copies of correspondence, &c.
- Quebec.  
April 24. The same to the same. Copied in C.O. 42, vol. 25, p. 157. Q 2, p. 107.
- Quebec,  
June 11. Mr. John Gray to Governor Murray, praying that a military attachment may be laid on the effects of the Jesuits, for securing the payment of certain bills of exchange. (Copy enclosed in Governor Murray's letter of June 26.) Copy of governor's answer follows.
- Quebec,  
Aug. 10. Governor Murray to the Board enclosing correspondence *re* claim of the Compagnie des Indes to certain houses in Quebec.
- Quebec,  
Aug. 20. The same to the same. Informs their lordships that he has received their letter of May 11 last, respecting the Acts of Parliament passed in the preceding session, and bills of credit.
- Quebec,  
Aug. 22. The same to the same. Enclosing correspondence, &c., *re* certain claims on the Jesuits.
- Quebec,  
Aug. 25. The same to the same: Recommending the renewals of two grants made by him to Messrs. Morrisseaux and Tachet, and enclosing M. Morrisseaux' memorial, &c.
- Quebec,  
Aug. 23. The same to the same. Informing their lordships that he has received their despatches by Captain Holland and of the establishment of the Provincial Council. Transmits names of persons appointed by him to be of the Council; and of others qualified to succeed them in the event of vacancies occurring.
- Quebec,  
Sept. 2. The same to the same. In answer to their lordships' letter *re* the establishment of a pilotage for the river S. Lawrence.
- Quebec,  
Sept. 8. Governor Murray to the Board. In answer to one from their lordships, dated May 29, *re* the Canadian settlements of Detroit and Illinois, and his correspondence with them, and enclosing a report on each, in French.
- Detroit and  
Illinois.
- London,  
Nov. 27. William Woodmass to Pownall, Secretary to Board of Trade. Proposing that a survey be made of a load of timber and deals imported from Quebec.
- Quebec,  
March 25. Governor Murray to the Board. Acknowledging receipt of their letter of November 22 last, and containing remarks on the duty on spirituous liquors. He further encloses an account of payments made out of the duties on rum, &c.

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Colonial Correspondence, vol. 31, year 1818, being Governor Smith's correspondence.

## From Audit Office—

American Loyalist Claims, vols. 1, 2, 57, 98, 109.

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## From War Office—

Six Muster Rolls: 28th, 35th, 43rd, 47th, 48th and 58th Regiments. 1760.

## From Post Office—

Abolition of the Franking Privilege, 1842-44.

Canadian Records, 1844, 4 parts in 7 portfolios.

## Shelburne Manuscripts—

American Correspondence, vols. 48 and 49.

## Hudson's Bay Company—

Received from Hudson's Bay House, London—

Minute books: vols. 216, year 1693-1694

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Anthony Beal's Journal at Fort Albany, from 13th Sept., 1705, to 15th July, 1706.

The Council Book of York Factory, 1721.

Samuel Taylor's Diary, Red River.

R. Campbell's Journal, 1808-51.

## Prince Edward Island—

Original manuscript. Case laid before His Majesty George III, of William Townshend, Collector of Customs and Naval Officer at Charlottetown, 1789-1791. . . . .120 pages.

Selkirk Papers—

From Edinburgh University—

Vols. 62 to 70, being folios 16500 to 18615.

(*From Colonel Bagot.*)

Colonel Bagot kindly allowed the manuscripts at Levens Hall to be removed to the Public Record Office to be transcribed for the Archives.

## BAGOT PAPERS.

### AMERICAN CORRESPONDENCE.

#### Contents of Vol. I.—

(1) A list of Bagot papers in the American Correspondence, Vol. I., *not* copied, the originals of which are to be found amongst the Foreign Office Papers.

(2) Copies of despatches from Bagot, in the American Correspondence, Vol. I., part I., not found among the Foreign Office Papers.

The despatches are as follows:—

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 Aug. 12. Bagot to Castlereagh.  
 Nov. 9. Bagot to Castlereagh, No. 41.  
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 June 30. Bagot to Lord Castlereagh, No. 46.  
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 Aug. 8. Bagot to Lord Castlereagh.

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 Jan. 6. Bagot to Joseph Planta, jun.  
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 Feb. 8. Bagot to Lord Castlereagh, No. 19.  
 May. 6. Bagot to Lord Castlereagh.

#### Contents of Vol. II.—

(1) List of Bagot papers in the American Correspondence, Vol. II *not* copied, the originals of which are to be found amongst the Foreign Office Papers.

(2) Copies of despatches and private letters from Bagot to His Majesty's Principal Secretary of State for Foreign Affairs. 1816-1819.

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## Contents of Vol. III.—

List of Bagot Papers in American correspondence, Vol. III., *not* copied, the originals of which are amongst the Foreign Office Papers.

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June 11.	Bagot to James Munroe.
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July 9.	Bagot to James Munroe.
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Aug. 13.	Bagot to James Munroe.
Aug. 13.	Bagot to James Munroe.
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March 15.	Bagot to Richard Rush.
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Aug. 1.	Bagot to Richard Rush.
Aug. 8.	Bagot to Richard Rush.
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Oct. 26.	Bagot to John Quincy Adams.
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May 30.	James Munroe to Charles Bagot (Enclosure).
June 12.	James Munroe to Charles Bagot.
June 13.	James Munroe to Charles Bagot (Enclosures).
July 20.	James Munroe to Charles Bagot (Enclosure).
July 22.	James Munroe to Charles Bagot.
July 25.	James Munroe to Charles Bagot (Enclosures).
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April 4.	Richard Rush to Charles Bagot.
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April 7.	Richard Rush to Charles Bagot.
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 Sept. 19. Richard Rush to Charles Bagot.  
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 Nov. 26. John Quincy Adams to Charles Bagot.  
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## Contents of Vol. VI.—

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 June 11. Charles Bagot to Maj.-Gen'l. Wilson.  
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 Aug. 14. Charles Bagot to Sir J. C. Sherbrooke and Commodore Owen.  
 Aug. 14. Charles Bagot to Sir J. C. Sherbrooke, No. 5. (Secret and confidential.)  
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 Aug. 21. Charles Bagot to Sir J. C. Sherbrooke, No. 7.  
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 Jan. 10. Charles Bagot to Lord Dalhousie.  
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 March 11. Charles Bagot to Lord Dalhousie.  
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 July 31. Charles Bagot to Sir J. C. Sherbrooke, No. 18.  
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Jan. 24.	Charles Bagot to Sir J. C. Sherbrooke, No. 25.
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April 26.	Sir G. Drummond to Charles Bagot.
May 21.	Charles Cameron to Charles Bagot.
May 22.	Maj.-Gen'l. Wilson to Charles Bagot.
June 20.	Maj.-Gen'l. Wilson to Charles Bagot.
June 22.	Edw. Griffith to Charles Bagot.
June 29.	Edw. Griffith to Charles Bagot.
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March 19.	W. F. W. Owen to Charles Bagot.
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July 20.	Edw. Griffith to Charles Bagot.
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Sept. 5.	W. Baumgardt to Charles Bagot. (Enclosures.)
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June 11.	David Milne to Charles Bagot. (Enclosures.)
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Jan. 29.	J. C. Sherbrooke to Charles Bagot, No. 15.
Feb. 18.	J. C. Sherbrooke to Charles Bagot, No. 16.
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Feb. 28.	Lord Dalhousie to Charles Bagot (Enclosures.)
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April 30.	Lord Dalhousie to Charles Bagot.

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May 11.	Lord Dalhousie to Charles Bagot.
May 18.	J. C. Sherbrooke to Charles Bagot.
May 22.	G. S. Smyth to Charles Bagot (Enclosure.)
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May 25.	W. V. Munnings to Charles Bagot.
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June 15.	John Bowker to Charles Bagot.
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Jan. 29.	Richmond to Charles Bagot, No. 4. (Enclosure.)
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- (1) List of letters omitted being such as are of no interest to Canada.
- (2) Part (1) Letters of Bagot to British Consuls.

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June 9.	Charles Bagot to Fras. Thompson.
Aug. 14.	Charles Barclay to Thos. Barclay.
Oct. 14.	Charles Barclay to J. Pilkington & Co.
Oct. 15.	Charles Bagot to Wm. Dawson.
Nov. 20.	Charles Bagot to Wm. Dawson.
Nov. 20.	Charles Bagot to Wm. Dawson.
D <sup>d</sup> .	Charles Bagot to Col Ogilvie



1816.	
Dec. 16.	Charles Bagot to J. S. Skinner.
Dec. 23.	Charles Bagot to Rodick & Baker.
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Jan. 25.	Charles Bagot to Wm. Dawson.
Jan. 31.	Charles Bagot to Anthony Baker.
Feb. 10.	Charles Bagot to Anthony Baker.
April 1.	Charles Bagot to M. Hyde de Neuville.
April 5.	Charles Bagot to Wm. Dawson.
April 8.	Charles Bagot to The Chevalier de Onis.
April 8.	Charles Bagot to Charles Roberts.
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May 6.	Charles Bagot to John Davidson.
May 24.	Charles Bagot to Anthony Baker.
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June 9.	Charles Bagot to James Buchanan.
June 26.	Charles Bagot to O. W. H. Stull.
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July 13.	Charles Bagot to E. H. Bay.
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Nov. 6.	Charles Bagot to Gilbert Robertson (Private.)
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April 26.	Charles Bagot to John Ogilvie.
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April 27.	Charles Bagot to Anthony Baker.
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May 17.	Charles Bagot to Thos. Gold.
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May 31.	Charles Bagot to James Buchanan.
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 Sept. 2. Charles Bagot to J. Haswell.  
 Sept. 10. Charles Bagot to Geo. Manners.  
 Sept. 13. Charles Bagot to Thos. Clark.  
 Sept. 16. Charles Bagot to W. S. Skinner.  
 Sept. 23. Charles Bagot to Geo. Manners.  
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 Jan. 26. Charles Bagot to James Smibert.  
 Feb. 25. Charles Bagot to James Smibert.  
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 March 3. Charles Bagot to Paul H. Searson.  
 March 4. Charles Bagot to W. & J. Crooks.  
 April 5. Charles Bagot to Alex. Walker (Private.)  
 April 5. Charles Bagot to Gilbert Robertson (Private.)  
 April 12. Charles Bagot to Jacob Perkins.  
 April 14. Charles Bagot to Anthony Baker.  
 April 18. Charles Bagot to J. Perkins.
1817. (II.) Part II. Letters of British Agents to Charles Bagot.  
 March. G. Hyde de Neuville to Charles Bagot.  
 April 2. G. Hyde de Neuville to Charles Bagot.  
 Nov. 24. Thos. Barclay to Charles Bagot (Enclosure) (Private).
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 Oct. 23. Thos. Barclay to Charles Bagot (Enclosure).  
 Oct. 24. Thos. Barclay to Charles Bagot (Private).  
 Contents of Unnumbered Vol. of Bagot Papers, American Correspondence, relating to the negotiations at Ghent.  
 List of documents to be found in the Foreign Office, American Papers, Vols. 101, 102.

MISCELLANEOUS CORRESPONDENCE.

1817.  
 March 21. Lord Castlereagh to Charles Bagot (Private).  
 Dec. 6. Charles Bagot to Col. Barclay (Private).
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 Feb. 4. Lord Castlereagh to Charles Bagot (Private).  
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 May 22. J. Planta to Charles Bagot (Private).  
 Oct. 24. Thos. Barclay to Charles Bagot (Private).  
 Paper by Chas. Shun on Canada.
- 1840.

## BAGOT PAPERS, RUSSIAN CORRESPONDENCE.

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Charles Bagot to Lord Dalhousie.

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July 27.	Charles Bagot to Lord Londonderry.
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April 24.	Charles Bagot to Lord Londonderry.
April 24.	Charles Bagot to Sir Geo. Rose.
May 10.	Charles Bagot to Hon. R. Gordon.
May 10.	Charles Bagot to Sir Geo. Rose.
May 26.	Charles Bagot to Lord Strangford.
May 1.	Charles Bagot to Honble. R. Gordon.
May 16.	Charles Bagot to Sir Geo. Rose.
May 16.	Charles Bagot to Lord Londonderry.
June 18.	Charles Bagot to Lord Londonderry.
June 30.	Charles Bagot to Honble. R. Gordon.
July 2.	Charles Bagot to J. Planta.
July 8.	Charles Bagot to Sir Geo. Rose.
July 8.	Charles Bagot to Sir Thos. Maitland.
July 15.	Charles Bagot to Lord Londonderry.
July 15.	Charles Bagot to Mr. Planta.
July 15.	Charles Bagot to Sir Geo. Rose.
July 21.	Charles Bagot to Lord Londonderry.
Aug. 6.	Charles Bagot to J. Bandinel.
Aug. 7.	Charles Bagot to Hon. R. Gordon.
Aug. 3.	Charles Bagot to Lord Londonderry.
Aug. 5.	Charles Bagot to Sir Geo. Rose.
Aug. .	Charles Bagot to S. Allsopp.
Aug. 24.	Charles Bagot to Hon. R. Gordon.
Aug. 24.	Charles Bagot to Lord Londonderry.
Aug. 30.	Charles Bagot to J. Planta.
Aug. 30.	Charles Bagot to Earl of Liverpool.
Sept. 13.	Charles Bagot to J. Planta.
Sept. 27.	Charles Bagot to J. Planta.
Oct. 4.	Charles Bagot to Consul Gen'l. Yeames.
Oct. 11.	Charles Bagot to Thos. Cook.
Oct. 13.	Charles Bagot to J. W. Croker.
Nov. 8.	Charles Bagot to Sir Geo. Rose.
Nov. 6.	Charles Bagot to J. Planta.
Nov. 6.	Charles Bagot to Geo. Canning.
Nov. 18.	George Bagot to Lord Clancarty.
Nov. 18.	Charles Bagot to J. Planta.
Nov. 18.	Charles Bagot to J. Planta.
Nov. 24.	Charles Bagot to M. de Lacy Purse.
Dec. 4.	Charles Bagot to Sir Geo. Rose.
Dec. 28.	Charles Bagot to J. Planta.
1823,	
Jan. .	Charles Bagot to Hon. R. Gordon.
J n. 9.	Charles Bagot to Geo. Canning.



1823.	
Jan. 14.	Charles Bagot to Capt. Krusenstern.
Feb. 5.	Charles Bagot to Sir Geo. Rose.
Feb. 17.	Charles Bagot to J. Planta.
Feb. 22.	Charles Bagot to Sir Geo. Rose.
March 12.	Charles Bagot to Geo. Canning.
March 18.	Charles Bagot to Geo. S. Douglas.
March 22.	Charles Bagot to Duke of Wellington.
March 22.	Charles Bagot to George Canning.
March 22.	Charles Bagot to Lord Clancarty.
March 24.	Charles Bagot to Consul Genl. Yeames.
March 25.	Charles Bagot to Lord Francis Conyngham.
March 14.	Charles Bagot to George Canning.
March 28.	Charles Bagot to the Baroness d'Uhlansky.
April 4.	Charles Bagot to George Canning.
April 29.	Charles Bagot to George Canning.
May 10.	Charles Bagot to Joseph Planta.
May 1.	Charles Bagot to Mr. Bandinel.
May 1.	Charles Bagot to George Canning.
May 16.	Charles Bagot to Prince Leopold of Saxe-Coburg.
May 6.	Charles Bagot to George Canning.
June 2.	Charles Bagot to George Canning.
July 9.	Charles Bagot to George Canning.
Aug. 8.	Charles Bagot to The Baroness d'Uhlanski.

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Aug. 30.	Charles Bagot to Lord Melville.
Aug. 30.	Charles Bagot to George Canning.
Aug. 31.	Charles Bagot to George Canning.
Sept. 4.	Charles Bagot to Sir Henry Wellesly.
Sept. 12.	Charles Bagot to Lord Strangford.
Sept. 16.	Charles Bagot to Lord Strangford.
Sept. 27.	Charles Bagot to George Canning.
Sept. 29.	Charles Bagot to Lord Strangford.
Oct. 5.	Charles Bagot to George Canning.
Oct. 29.	Charles Bagot to George Canning.
Oct. 29.	Charles Bagot to Lord Clancarty.
Oct. 29.	Charles Bagot to George Canning.
Oct. 29.	Charles Bagot to Lord Clanwilliam.
Nov. 5.	Charles Bagot to Lord Strangford.
Nov. 22.	Charles Bagot to George Canning.
Nov. 22.	Charles Bagot to Lord Clanwilliam.
Dec. 10.	Charles Bagot to Joseph Planta.
Dec. 10.	Charles Bagot to George Canning.
Dec. 14.	Charles Bagot to Lord Strangford.
Dec. 14.	Charles Bagot to Lord Strangford.
Dec. 17.	Charles Bagot to George Canning.
Dec. 17.	Charles Bagot to George Canning.
Dec. 18.	Charles Bagot to Sir Henry Wellesley.
1824,	
Jan. 2.	Charles Bagot to J. Cochrane.
Jan. 3.	Charles Bagot to M. de Zeidler.
Feb. 3.	Charles Bagot to Jas. J. Candlin.
Feb. 7.	Charles Bagot to George Canning.
Feb. 18.	Charles Bagot to Geo. Lapage.

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1824.	
Feb. 28.	Charles Bagot to George Canning.
Feb. 21.	Charles Bagot to Mr. Bruxner.
March 7.	Charles Bagot to James Holman.
Feb. 27.	Charles Bagot to George Canning.
March 14.	Charles Bagot to Lord Francis Conyngham.
March 29.	Charles Bagot to George Canning.
March 29.	Charles Bagot to George Canning.
March 30.	Charles Bagot to Sir Henry Wellesley.
April 10.	Charles Bagot to George Canning.
April 4.	Charles Bagot to Lord Strangford.
April 5.	Charles Bagot to George Canning.
April 15.	Charles Bagot to John Cochrane.
May .	Charles Bagot to George Canning.
May 20.	Charles Bagot to Lord Strangford.
May 21.	Charles Bagot to Lord Strangford.
June 4.	Charles Bagot to Lord Strangford.
June 11.	Charles Bagot to Lord Strangford.
June 23.	Charles Bagot to George Canning.
July 6.	Charles Bagot to George Canning.
July 6.	Charles Bagot to Joseph Planta.
July 1.	Charles Bagot to Mr. Booker.
July 3.	Charles Bagot to John Cochrane.
July 27.	Charles Bagot to Lord Strangford.
July 27.	Charles Bagot to Lord Strangford.
July 30.	Charles Bagot to Lord Strangford.
July 19.	Charles Bagot to George Canning.
Aug. 6.	Charles Bagot to Lord Clanwilliam.
Aug. 6.	Charles Bagot to George Canning.
Aug. 24.	Charles Bagot to George Canning.
Aug. 24.	Charles Bagot to George Canning.
Aug. 16.	Charles Bagot to Lord Strangford.
Aug. 16.	Charles Bagot to Lord Strangford.
Aug. 16.	Charles Bagot to Lord Strangford.

## Contents of Vol. III.

List of despatches *not* copied in Bagot Papers, Russian Correspondence. Vol. III. Originals in Foreign Office, 181, Vols. 38, 42, 43 and 43.

Correspondence of Charles Bagot.

1820.  
June 16. Lord Castlereagh to Charles Bagot.

1821,  
Jan. 20. Joseph Planta to Charles Bagot.

July 17. Lord Londonderry to Charles Bagot (enclosures).

## Contents of Vol. IV.

List of Bagot Papers *not* copied in Russian Correspondence, Vol. IV; originals to be found in Foreign Office Papers, 181, vols. 48, 49, 52 and 53.

Correspondence of Charles Bagot.

1822.  
June 18. Lord Londonderry to Sir Charles Bagot.

Nov. 29. Wellington to George Canning.

## Contents of Vol. V.

List of despatches in Bagot Papers, Russian Correspondence, Vol. V. Originals in Foreign Office. None of these have been copied.

## Contents of Vol. VI.

Correspondence of Sir Chas. Bagot with the Imperial Secretaries of State, 1820-1824.

## PART I.

1820.	
July 2.	Count Nesselrode to Chas. Bagot.
July 6.	Count Nesselrode to Chas. Bagot.
July 17.	Count Nesselrode to Chas. Bagot.
July 23.	Count Nesselrode to Chas. Bagot.
Aug. 25.	Count Nesselrode to Chas. Bagot.
Sept. 10.	Count Nesselrode to Chas. Bagot.
Aug. 27.	Count Nesselrode to Chas. Bagot.
Sept. 3.	Count Nesselrode to Chas. Bagot.
Sept. 9.	M. de Naryschkin to Chas. Bagot.
Sept. 10.	Count Nesselrode to Chas. Bagot.
Oct. 3.	Count Nesselrode to Chas. Bagot.
Oct. 3.	Capodistrias to Chas. Bagot.
Oct. 13.	M. Naryschkin to Chas. Bagot.
Oct. 20.	Paul Divow to Chas. Bagot.
Oct. 30.	Genl. Obreskoff to Chas. Bagot.
Nov. 5.	Paul Divow to Chas. Bagot.
Nov. 22.	Genl. Obreskoff to Chas. Bagot.
Dec. 11.	Paul Divow to Chas. Bagot.
Dec. 11.	M. Naryschkin to Chas. Bagot.
1821.	
Jan. 9.	Paul Divow to Chas. Bagot.
Feb. 21.	Paul Divow to Chas. Bagot.
Feb. 22.	Paul Divow to Chas. Bagot.
Feb. 26.	Paul Divow to Chas. Bagot.
March 25.	Paul Divow to Chas. Bagot.
May 25.	Paul Divow to Chas. Bagot.
May 26.	Count Nesselrode to Chas. Bagot.
June 4.	Count Nesselrode to Chas. Bagot.
June 22.	Count Nesselrode to Chas. Bagot.
July 4.	Count Nesselrode to Chas. Bagot (Enclosures).
July 21.	Count Nesselrode to Chas. Bagot.
July 22.	Count Nesselrode to Chas. Bagot.
July 22.	Count Nesselrode to Chas. Bagot.
July 27.	Count Nesselrode to Chas. Bagot.
Aug. 5.	Count Nesselrode to Chas. Bagot.
Aug. 7.	Count Nesselrode to Chas. Bagot.
Aug. 9.	Count Nesselrode to Chas. Bagot (Enclosures).
Aug. 22.	Count Nesselrode to Chas. Bagot.
Aug. 23.	Count Nesselrode to Chas. Bagot.
Sept. 13.	M. de Kologrivoff to Chas. Bagot.
Sept. 16.	Count Nesselrode to Chas. Bagot.
Oct. 4.	Count Nesselrode to Chas. Bagot.
Oct. 4.	Count Nesselrode to Chas. Bagot.
Oct. 6.	Count Nesselrode to Chas. Bagot.
Nov. 1.	Count Nesselrode to Chas. Bagot (Enclosure).
Nov. 12.	Count Nesselrode to Chas. Bagot.
Nov. 12.	Count Nesselrode to Chas. Bagot (Enclosure).

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1821.	
Dec. 1.	Count Nesselrode to Chas. Bagot (Enclosure).
Dec. 22.	Count Nesselrode to Chas. Bagot (Confidential).
Dec. 27.	Count Nesselrode to Chas. Bagot.
1822.	
Jan. 17.	Count Nesselrode to Chas. Bagot.
Feb. 4.	Count Nesselrode to Chas. Bagot (Enclosure).
March 18.	Count Nesselrode to Chas. Bagot.
April 13.	Count Nesselrode to Chas. Bagot.
April 21.	Count Nesselrode to Chas. Bagot.
April 22.	Count Nesselrode to Chas. Bagot (Enclosures).
April 22.	Count Nesselrode to Chas. Bagot.
April 27.	Henry Middleton to Chas. Bagot (Enclosure).
May 1.	Count Nesselrode to Chas. Bagot.
May 10.	Count Nesselrode to Chas. Bagot.
May 13.	Count Nesselrode to Chas. Bagot (Enclosure).
May 16.	Count Nesselrode to Chas. Bagot.
May 21.	Count Nesselrode to Chas. Bagot.
May 24.	Count Nesselrode to Chas. Bagot.
June 4.	Count Nesselrode to Chas. Bagot.
June 16.	Count Nesselrode to Chas. Bagot (Enclosure).
June 20.	Count Nesselrode to Chas. Bagot.
July 1.	Count Nesselrode to Chas. Bagot.
July 1.	Count Nesselrode to Chas. Bagot.
July 12.	M. d'Obrescöff to Chas. Bagot.
July 13.	Count Nesselrode to Chas. Bagot (Enclosure).
July 15.	Count Nesselrode to Chas. Bagot (Enclosures).
Aug. 4.	Count Nesselrode to Chas. Bagot.
Aug. 5.	Count Nesselrode to Chas. Bagot.
Aug. 19.	Paul Divow to Chas. Bagot.
Aug. 24.	Paul Divow to Chas. Bagot.
Sept. 20.	Paul Divow to Chas. Bagot.
Sept. 22.	Paul Divow to Chas. Bagot.
Sept. 27.	Count Gourieff to Chas. Bagot.
Oct. 10.	Paul Divow to Chas. Bagot.
Oct. 3.	Paul Divow to Chas. Bagot.
Oct. 19.	Count Gourieff to Chas. Bagot (Enclosure).
Oct. 30.	Paul Divow to Chas. Bagot.
Oct. 31.	Paul Divow to Chas. Bagot.
Nov. 2.	Paul Divow to Chas. Bagot.
Nov. 3.	Paul Divow to Chas. Bagot.
Nov. 14.	Paul Divow to Chas. Bagot (Enclosure).
Nov. 28.	Paul Divow to Chas. Bagot.
Dec. 4.	Paul Divow to Chas. Bagot.
Dec. 18.	Paul Divow to Chas. Bagot.
1823.	
Jan. 9.	Paul Divow to Chas. Bagot.
Jan. 20.	Paul Divow to Chas. Bagot.
Feb. 3.	Count Nesselrode to Chas. Bagot.
Feb. 18.	Count Nesselrode to Chas. Bagot.
March 6.	Count Nesselrode to Chas. Bagot.
April 9.	Count Nesselrode to Chas. Bagot.
May 31.	Count Nesselrode to Chas. Bagot.
June 24.	Count Nesselrode to Chas. Bagot.
June 24.	Count Nesselrode to Chas. Bagot (Enclosure).
July 26.	Count Nesselrode to Chas. Bagot.

## PART II.

1823,	
Aug. 3.	Count Nesselrode to Chas. Bagot.
Aug. 8.	Count Nesselrode to Chas. Bagot.
Aug. 17.	Count Nesselrode to Chas. Bagot.
Aug. 22.	Count Nesselrode to Chas. Bagot.
Oct. 11.	Le Conseiller d'Oubeil to Chas. Bagot.
Oct. 13.	Le Conseiller d'Oubeil to Chas. Bagot.
Oct. 13.	Le Conseiller d'Oubeil to Chas. Bagot.
Oct. 24.	Le Conseiller d'Oubeil to Chas. Bagot.
Nov. 7.	Count Nesselrode to Chas. Bagot.
Nov. 26.	Count Nesselrode to Chas. Bagot.
Nov. 24.	Count Nesselrode to Chas. Bagot.
Dec. 14.	Count Nesselrode to Chas. Bagot.
Dec. 14.	Count Nesselrode to Chas. Bagot.
1824,	
Jan. 12.	Count Nesselrode to Chas. Bagot (Enclosure).
Jan. 30.	Count Nesselrode to Chas. Bagot.
Feb. 8.	Count Nesselrode to Chas. Bagot.
Feb. 20.	Count Nesselrode to Chas. Bagot.
March 12.	Count Nesselrode to Chas. Bagot.
March 19.	Count Nesselrode to Chas. Bagot.
March 23.	Count Nesselrode to Chas. Bagot (Confidential).
April 30.	Count Nesselrode to Chas. Bagot.
July 8.	Count Nesselrode to Chas. Bagot.
July 29.	Count Nesselrode to Chas. Bagot.
Aug. 2.	Count Nesselrode to Chas. Bagot (Enclosure).

## PART III.

1820,	
July 30.	Chas. Bagot to The Count Nesselrode.
July 31.	Chas. Bagot to The Count Nesselrode.
Aug. 3.	Chas. Bagot to The Count Nesselrode.
Aug. 7.	Chas. Bagot to The Count Nesselrode.
Aug. 18.	Chas. Bagot to The Count Nesselrode.
Aug. 26.	Chas. Bagot to Paul Divow.
Nov. 10.	Chas. Bagot to Paul Divow.
Dec. 5.	Chas. Bagot to Paul Divow.
Dec. 1.	Chas. Bagot to Paul Divow.
Dec. 18.	Chas. Bagot to Paul Divow.
1821,	
Jan. 8.	Chas. Bagot to Paul Divow.
Feb. 13.	Chas. Bagot to Paul Divow.
March 4.	Chas. Bagot to Paul Divow.
May 27.	Chas. Bagot to Count Nesselrode.
May 30.	Chas. Bagot to Count Nesselrode.
May 30.	Chas. Bagot to Count Nesselrode.
June 9.	Chas. Bagot to Count Nesselrode.
June 19.	Chas. Bagot to Nicolas Fuss.
June 19.	Chas. Bagot to Count Nesselrode.
June 29.	Chas. Bagot to Count Nesselrode.
July 14.	Chas. Bagot to Count Nesselrode.
July 18.	Chas. Bagot to Count Nesselrode.
	Agreement between England and the United States and Russia.
July 19.	Chas. Bagot to Count Nesselrode.



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1821.	
July 22.	Chas. Bagot to Count Nesselrode.
July 28.	Chas. Bagot to Count Nesselrode.
Aug. 23.	Chas. Bagot to Count Nesselrode.
Sept. 13.	Chas. Bagot to Count Nesselrode.
Sept. 17.	Chas. Bagot to Count Nesselrode.
Sept. 27.	Chas. Bagot to Count Nesselrode.
Oct. 8.	Chas. Bagot to Count Nesselrode.
Oct. 28.	Chas. Bagot to Count Nesselrode.
Nov. 7.	Chas. Bagot to Count Nesselrode.
Dec. 17.	Chas. Bagot to Count Nesselrode.
Dec. 23.	Chas. Bagot to Count Nesselrode.
1822.	
Jan. 14.	Chas. Bagot to The Count Nesselrode (Enclosure).
March 1.	Chas. Bagot to The Count Nesselrode.
March 30.	Chas. Bagot to The Count Nesselrode.
April 17.	Chas. Bagot to The Count Nesselrode.
May 9.	Chas. Bagot to The Count Nesselrode.
May 10.	Chas. Bagot to The Count Nesselrode.
May 12.	Chas. Bagot to The Count Nesselrode.
May 21.	Chas. Bagot to The Count Nesselrode.
May 31.	Chas. Bagot to The Count Nesselrode.
June 7.	Chas. Bagot to The Count Nesselrode.
July 9.	Chas. Bagot to The Count Nesselrode.
July 16.	Chas. Bagot to The Count Nesselrode.
Aug. 2.	Chas. Bagot to The Count Nesselrode (Enclosure).
Aug. 17.	Chas. Bagot to Paul Divow.
Aug. 24.	Chas. Bagot to Paul Divow.
Sept. 18.	Chas. Bagot to Count Gourieff (Enclosure).
Sept. 20.	Chas. Bagot to Paul Divow.
Sept. 23.	Chas. Bagot to Paul Divow.
Oct. 23.	Chas. Bagot to Paul Divow.
Oct. 4.	Chas. Bagot to Paul Divow.
Oct. 29.	Chas. Bagot to Paul Divow.
Nov. 8.	Chas. Bagot to Paul Divow.
Nov. 13.	Chas. Bagot to Paul Divow.
Nov. 2.	Chas. Bagot to Paul Divow.
Dec. 19.	Chas. Bagot to Paul Divow.
1823.	
Jan. 21.	Chas. Bagot to Count Nesselrode.
Feb. 18.	Chas. Bagot to Count Nesselrode.
Feb. 21.	Chas. Bagot to Count Nesselrode.
May 15.	Chas. Bagot to Count Nesselrode.
May 16.	Memorandum by Chas. Bagot.
June 7.	Chas. Bagot to The Count Nesselrode.
June 12.	Chas. Bagot to The Count Nesselrode.
June 21.	Chas. Bagot to The Count Nesselrode.
June 12.	Chas. Bagot to The Count Nesselrode.
July 15.	Chas. Bagot to The Count Nesselrode.
July 15.	Chas. Bagot to The Count Nesselrode (Enclosure).
July 15.	Chas. Bagot to The Count Nesselrode.
Aug. 10.	Chas. Bagot to The Count Nesselrode.
Aug. 10.	Chas. Bagot to The Count Nesselrode.
Aug. 18.	Chas. Bagot to The Count Nesselrode.
Aug. 27.	Chas. Bagot to M. de Boulgakoff.

1823.	
Aug. 12.	Chas. Bagot to The Count Nesselrode.
Aug. 23.	Chas. Bagot to M. d'Oubeil.
Aug. 31.	Chas. Bagot to The Count Nesselrode.
Sept. 7.	Chas. Bagot to M. d'Oubeil.
Sept. 23.	Chas. Bagot to M. d'Oubeil.
Sept. 17.	Chas. Bagot to The Count Nesselrode.
Sept. 27.	Chas. Bagot to M. d'Oubeil.
Nov. 9.	Chas. Bagot to The Count Nesselrode.
Nov. 12.	Chas. Bagot to The Count Nesselrode.
1824.	
Feb. 8.	Chas. Bagot to The Count Nesselrode.
March 4.	Chas. Bagot to The Count Nesselrode.
March 9.	Chas. Bagot to The Count Nesselrode.
March 20.	Chas. Bagot to The Count Nesselrode.
March 22.	Chas. Bagot to The Count Nesselrode.
April 3.	Chas. Bagot to The Count Nesselrode.
April 25.	Chas. Bagot to The Count Nesselrode.
June 5.	Chas. Bagot to The Count Nesselrode.
July 6.	Chas. Bagot to The Count Nesselrode.
July 12.	Chas. Bagot to The Count Nesselrode.
July 12.	Chas. Bagot to The Count Nesselrode.
July 31.	Declaration by Chas. Bagot.
July 23.	Chas. Bagot to The Count Nesselrode.
Aug. 10.	Chas. Bagot to The Count Nesselrode.
Aug. 12.	Chas. Bagot to The Count Nesselrode.
Aug. 13.	Chas. Bagot to The Count Nesselrode.
Aug. 13.	Chas. Bagot to The Count Nesselrode.

*From Mrs. Murray, of Bath.*

Mrs. Murray, of Pultney street, Bath, kindly allowed me to examine the papers of General Murray which are in her possession.

I found eight bound volumes and one hundred and seventy-five loose papers. The entire collection will be copied for the Archives during the winter.

The first volume is especially interesting to Canada. It is apparently the first letter-book kept by Murray after his appointment as governor. Many of the other papers refer to Murray's subsequent career and are valuable for biographical purposes. Amongst the loose papers is a certificate granted to the Hurons at Montreal on the 5th of September, 1760, three days before the capitulation of Montreal; a paper referring to the Seigneurie de Lauzon, and a statement by George Don, Adj't. General, regarding Fort Phillips, which are here printed.

These are to certify that the chief of the Huron Tribe of Indians, having come to me in the name of his Nation to submit to His Britannick Majesty and make Peace, has been received under my protection with his whole Tribe, and henceforth no English Officer or party is to molest or interrupt them in returning to their settlement at Lorette and they are received upon the same terms with the Canadians, being allowed the free Exercise of their Religion, their Customs and liberty of trading

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with the English Garrisons recommending it to the Officers commanding the posts to treat them kindly.

Given under my hand at Longuil this 5<sup>th</sup> day of September, 1760.

Sig<sup>d</sup> Ja. Murray.

By the Generals Command

Sig<sup>d</sup> John Cosnand

Adj<sup>t</sup>. Gen<sup>l</sup>.

Endorsed

Copy of a certificate granted by Gen<sup>l</sup> Murray to the Huron Indians  
5<sup>th</sup> Sept: 1760

State of the Seigneurie of Lauzon or Point Levy purchas'd from M<sup>r</sup>. Charers [Charest] by his Excellency Gov<sup>r</sup>. Murray in the Year 1765.

It is an Extent along the River St. Lawrence of Six Leagues by as many in depth, is compos'd of three parishes call'd St. Joseph, St. Henry and St. Nicholas, with part of the Parish of St. Charles; There are four small unnavigable [streams] that water it, call'd the Chaudiere, Etroit Chemin, La Tici and Boyer. In the Parish of St. Joseph of Point Levy there is a Domaine belonging to the Seigneur, of one Acre and a half in front by thirty deep, without any building on it: There is also a small piece of Ground of about ten Acres lying upon the River St. Lawrence, upon which there is a Water and a Wind Mill, both out of repair, and from their situation, can never be worth rebuilding; there is also here a small Fishery for Eels, worth about five Dollars a Year.

In the second Rank of this Parish, there is also reserv'd [for]\* the use of the Seigneur, a piece of ground cover'd with Woo[d] of one Acres and six parches in front, by thirty in depth, this was intended to furnish Wood for the Mill. In the said Parish there are the following fiefs given by the former Seigneurs. 1<sup>st</sup> A Manor belonging to the Urcelins of Quebec of Nine Acres in front, by a hundred and sixty depth with liberty to fish, Subject to pay Fealty and Homage at every Mutation. 2<sup>ly</sup> A Fief belonging to the Jesuits of Eleven Acres in front by thirty deep, it pays one penny Cente & Rent for each Acre in front, and the Lots & Vente. 3<sup>ly</sup> A Fief call'd St. Villimay belonging to the Heirs of one Risson: of [eighty]\* Acres in front by one hundred and sixty deep, subject to [pay]\* Fealty and Homage, with one Years Rent at every change of Possessor. 4<sup>ly</sup> A Fief belonging to the Urcelins of Quebec Eight Acres in front by thirty deep, which pays Lots & Vente to the Seigneur. At the End of the Fief of St. Villimay, ther[e] is a piece of ground of nine acres in front by thirty deep, reserv'd by the Seigneur, for the use of the Mill of St. Henry.

There is a small village call'd Toniata, or de Caderet which depends upon this parish, in it is a fief of Land of Sixty Acres, reserv'd by the Seigneur for a Saw Mill, but non has been yet built. In the Parish of St. Henry, about five Miles from the River St. Lawrence, there is a Grist and Saw Mill both much out of repair.

In the Parish of St. Nicholas, there is a Fief, twenty nine acres in front by thirty deep, belonging to the Jesuits, which pay Lots & Vente. In this Parish the Seigneur has the following Domains, viz<sup>t</sup>. One at the Mouth of the River Chaudiere of Eight Acres in front, by a hundred deep, without any building on it, this Domaine wou'd have been Valuable had not the Wood of it been cutt down a few Years before the

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Siege. An other Domain of Eighteen Acres in front by seventy deep, in the same condition with the other; upon this Governor Murray has built a large Stone Mill, now under lease for two Years to Collin Drummond Esq<sup>r</sup>. There is another piece of Ground of Six Acres in front by thirty deep upon which there is no building or improvement of any kind.

The whole Extent of the Seigneury contains, three hundred and twelve families that inhabit it; there is besides two hundred and eighty two Grants, to people who have not yet settled; which makes one thousand, nine hundred, and fifty eight Acres, three Parches, and nine Feet, conceded in front; and six hundred, and fifty two Acres, seven Parches, have been Abandoned. And M<sup>r</sup>. Rich<sup>d</sup>. Murray who had a Lease of it from the Governor, has now granted forty four Lots, which with those before conceded makes in all six hundred and thirty eight.

There is besides the above a Fief belonging to M<sup>r</sup>. St. André in the Parish of St. Henry, which consists of about Eight hundred Acres, pays Fealty and Homage and one Shilling yearly Cente & Rente.

Last Year the Rent of Seigniory was as follows

Parish of Point Levy or St. Joseph		Currency.		
		£	Sh	d
Cente & Rente paid by the Inhabitants amounted to 869 <sup>liv</sup>				
16 <sup>s</sup> 3 <sup>d</sup> , Tournois or..		47	19	8
Droit de peche paid by D <sup>o</sup> ..		6	6	—
Lots & Vente..		2	8	3
		<hr/>		
		£56	13	11
Parish of St. Charles				
Cente & Rente..		£26	11	6
Lots & Vente..		5	10	
		<hr/>		
		32	1	6
Parish of St. Henry.				
Cente & Rente..		45	13	3½
Lots & Vente..		1	8	
		<hr/>		
		47	1	3½
Parish of St. Nicholas.				
Cente & Rente..		33	19	4
Droite de Peche..		6	14	
Lots & Vente..		6	8	8
		<hr/>		
		47	2	
		<hr/>		
		£182	18	8½
The three Mills of St. Nicholas, St. Henry & Point Levy				
made 803 Bushels of Wheat at 3/..		120	9	
The Saw Mill at St. Henry clear'd..		6	3	
The Eell & Salmon Fishery clear'd..		2	4	
		<hr/>		
		£311	14	8½

The above Sum is equal to £233 15 Ster<sup>l</sup>.

There is still due by the Inhabitants for last years Rent about £30 Currency but most of it for abandoned Leases.



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As the Seigniori is now put, it may produce as follows.

The whole Rent of the Seigniori, with the Grants given by M <sup>r</sup> . Rich <sup>d</sup> . Murray may amount to. . . . .	£210	—	—
The Mill at St. Nicholas set to M <sup>r</sup> . Drummond for. . . . .	156	—	—
The Mill built by M <sup>r</sup> . Rich <sup>d</sup> . Murray may clear 600 Bushels a Year, but this will much depends upon y <sup>e</sup> . Industry of the Millar, as the parish does not bring more than 300 at 3/ pr B. . . . .	90	—	—
The Mill at St. Henry when repaired will make 100 Bushels clear at 3/ is. . . . .	15	—	—
The Saw Mill and fisheries. . . . .	7	4	—
Equal to £358 13 — Ster <sup>l</sup> . . . . .	£478	4	—

Out of the above Sum is to be deducted all Expenses attending Collecting the Rents, and the Tear, and Wear of the Mills, the one at St. Nicholas will soon require an entire new sett of Dalls, which at least cost £50, and M<sup>r</sup>. Drummond unless he has a Granery built will not keep it longer than two years, and in that case unless another Tennant can be got, which is very uncertain, it will not clear more, than 300 Bushels, as the Mill at point Levy is sufficient to grind all the Wheat that can be got from Town. There is yet rather more, than one half of the seigniori to be conceded, but it will require great attention to get settlers, and can only be done by a person immediately upon the spot. The Lots des Ventes is a very uncertain part of the Revenue, it may be fifty pounds a year, and it may be nothing.

Endorsed: N<sup>o</sup>. 2

State of the Seigniori of Lauzon or Point Levy belonging to his Excellency Governor Murray 1767.

An Exact relation of a conversation which passed between his Excellency the Duke de Crillon Commander in chief of the Spanish Army investing Fort St. Phillip and Captain George Don Adjutant General to the garrison of Fort St. Phillip.

On the 15<sup>th</sup> Oct<sup>r</sup>. 1781, I was sent by General Murray with a letter from him to the Duke of Crillon, on my arrival at Mahon, I was conducted by the Conte de Crillon, to the Duke's private apartment where he was, a little after the Count had retired, the Duke locked the Doors of the room, and asked me if M<sup>r</sup>. Larivere had communicated anything particular to me, or to my General since the day he Larivere had been with him, my answer was in the negative with respect to myself and that I did not believe he had acquainted Genl Murray with anything extraordinary the Duke said he had only thrown out general hints to that Gentleman of what he would hereafter communicate to me, he said he at first understood that M<sup>r</sup>. Larivere was General Murrays secretary, and of course a person in whom he reposed the greatest confidence but that he had soon afterwards discovered his mistake, and perceived by General Murrays letter that M<sup>r</sup>. Larivere was only the Secretary's clerk. I then told the Duke he need not be under the smallest uneasiness at what he had told M<sup>r</sup>. Janevere,\* [Larivere] as I knew him to be a young man of great honor and integrity, and that he would not divulge anything improperly, and that his Grace might depend on his silence in every respect as well as upon mine. The Duke said I perceive Sir by General



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Murrays letter that you are his Relation, and I understand you are his confidant, I shall therefore openly declare to you that I am authorized to treat with General Murray, if you chuse it sir I will show you the Ministers letter in short your General May have what sums he pleases and one million at first, I then interrupted him and told him it was unnecessary to proceed any farther on that subject and that both the Minister and him were egregiously deceived in the character of General Murray His Grace said he was charged with the negociation of this affair that he was confidently informed, that General Murray had a strong party against him at Court that he was ill treated by some people at home, and that he might soon expect to be relieved. I told him on the contrary (tho' he might have some enemies) I believed he was very well at Court, and imagined his Grace to be misinformed. The Duke said that the Fiscal Don Peter Sintar had been intercepted and the papers he was charged with seized by which great discoveries were made. He said that our nation was undone and that it was impossible any succors could be sent to us as he was informed by the Minister that the combined Fleets were under Orders to give battle to any British Fleet (the combined Fleets were double the Force of ours) which might attempt getting into the Mediterranean. He said that peace could not be made till St. Phillips was taken and assured me, that tho' he had but 40 Battering Cannon he should soon have 180, a great army, and the best miners in Europe, and that the Place would certainly be warmly attacked. That it would be humane to save the effusion of blood, that general Murray had already acquired enough Glory, and a great reputation in arms that there were modes of giving up Places honorably, such as the accidental springing of a Mine, a mistake in the Disposition of the defence for a Gen<sup>l</sup>. attack, a Redoubt or an Earthwork taken etc., and that it was a pity to sacrifice so many brave men. I told him that whatever might be the event it was the duty of a soldier to submit to his fate. That I knew that there was not any place impregnable, and that he might ruin our works with a numerous train of Artillery, yet I was sure our defence would be such as would always entitle us to an honorable capitulation but not to flatter himself with the hopes of obtaining the place by any other means, and that a siege was what General Murray ardently wished for. The Duke said that if I thought the negociation would not succeed I need not mention the affair to General Murray. I begged to be excused and said it was my duty only to lay his proposition before General Murray, and to communicate to him every word that had passed between his Grace and me, which I assured him I would certainly do. The Duke said if the negociation did not succeed it would be the more honorable for him as by superior Force the place must yield one day or other. I acquiesced with his Grace that it would be more honorable for him, and said that perhaps the Island might be given up to the Spanish nation at the peace, (which might be expected soon) as we did not think the Island of Minorca of any great consequence, particularly as long as we could keep possession of Gibraltar which I imagined would not soon fall into the hands of the Spaniards he said the ambition of his King would prevent that Measure, and that St. Phillips Castle must be taken for the honor of his Arms before the Peace was concluded.

During the above conversation the Duke insinuated that the Stewards had been unjustly treated. I told him they had cut one of their heads off, he said it was unmerited, I answered it was not my business to judge of the propriety of such actions. The Duke said he once had

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intended to propose this affair to General Murray, by means of his wife, but that he thought it might thereby be divulged, he then expressed great anxiety that it should be kept a profound secret. I repeated to him again that it was only my duty to communicate the whole to General Murray and to no other person, and that he General Murray was the best judge how to act afterwards, and that he would certainly give his Grace an answer on the subject.

The Duke hinted that there were some private transactions carried on when St. Phillips Castle was taken by the French in '56, and that Admiral Byng had not deserved so cruel a fate.

When the Duke had the smallest gleam of hope of succeeding in this negociation he appeared happy; when he was told not to Flatter himself he was much hurt, on the whole his situation appeared to be a very disagreeable one.

The Duke said he had kept several letters for officers in the garrison which he had not perused, and intended to avail himself of that excuse to continue the correspondence.

The above I communicated to General Murray on my return from Mahon.

(Signed) George Don  
Adj<sup>t</sup>. General.

Endorsed: True Copy.

M. V. Murray  
adjt  
RM.SS.

VIREY—SOLAR PAPERS

In the possession of the Marquis of Lansdowne. copies of which are being made for the Archives.

Copy of Memorandum inserted at the beginning of Volume 9.

No. 9—11.

Correspondance entre M. le Comte de Virey et M. le Bailli Solar de Breille, en 1761 & 1762, 3 Tom. fol. Maroq. rouge.

Besides the above Correspondence, these Volumes comprehend several Ministerial Letters of the Earls of *Bute* & *Egremont*, the Duke & Count de *Choiseul*, the Marquis de *Grimaldi*, &c., and a Variety of *State-Papers* previous to the Peace concluded at *Paris* in 1763.

In Vol. 2, see *Projet des Articles du Paix* dressé par la France—Various Observations on the same, &c.

The *Count* enters, occasionally, very familiarly into the *State of Parties* in *England*; & speaks, without Reserve, of some of our *first Characters* at that Time—but, more particularly, in Letter 6, Vol. 3, which is, indeed, a very curious Letter—wherein, he speaks very handsomely of the *Duke of Bedford*; which is more than his *Grace* does of some of his Colleagues.

He says, the *Duke* is fond of *Lord Bute*; but he believes that *Lord* has more Occasion for his *Grace*, in support of his *Administration*, than his *Grace* has for his *Ldsp*.

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He is not averse to *Lord Egremont*; who manages him extremely well—In speaking of his *Ldsp*, the *Duke* told the *Count*, that he had the *Capability* of being a good enough *Secretary of State*.

He undervalues *Mr. Geo. Grenville*, & thinks him unfit for his *Post*; tho' they are upon good *Terms* at present—*Mr. Grenville* knows how to manage him.

He detests *Mr. Pitt*—and, which is worse, he will not allow him to be a good *Orator*.

The *Duke of Cumberland* & his *Grace* are upon good *Terms*, tho' they think differently on the present *Posture of Affairs*—his *Roy<sup>l</sup> Highness* is for carrying on the *War in Germany*; the *Duke* is positively for *Peace*—the *Prince* is not fond of *Ld. Bute*, whom his *Grace* is particularly attached to.

The *D. of B.* is not out with the *D. of Newcastle*, who declares himself more & more ag<sup>t</sup>. *Ld. Bute*; but they are very opposite on the *Question of Peace or War*, the latter being for trying an<sup>d</sup>. Campaign.

The *D. of B.* esteems not the *President Lord Grenville*; but disputes not his *Understanding and Abilities*—He thinks highly of *Lord Hardwicke*, who retired himself from the *Council*, on Acc<sup>t</sup>. of the *D. of Newcastle*; tho' he loves him not.

He speaks boldly of *Lord Mansfield*, as a *Man of Parts*, but a meer *Splitter of Causes (Chicaneur)*—fitter to examine an *Affair* than to make an *End of it*; and for the *Chancellor*, he considers him as an *ordinary Character, enveloped in Forms*—with much more respecting *Ld. Halifax the D. of Devonshire, &c.*

S. P.

## A COLLECTION OF EPISCOPAL ORDINANCES, ETC., 1635-1793.

The following Calendar of printed and manuscript documents relates to a collection of episcopal ordinances, etc., which have recently come into the possession of the Dominion Archives. One, at least, seems to have been printed at Quebec, during the French régime, and may therefore be regarded as among the earliest examples of printing done in Canada.

1685.  
Oct. 6. Ordinance of Mgr. de Saint Vallier, Bp. of Quebec, concerning the modesty with which the faithful should behave in Church, and the necessary dispositions for coming to Holy Communion. *Printed in Paris.*

Oct. 22. By the Same. Concerning the reverence due to Churches. [Apparently] *Printed in Quebec.*

1690.  
Nov. 9. Statutes published in the first Synod held at Quebec, November 9, 1690. [Apparently] *Printed in Paris.* [Cf. N<sup>o</sup>. 6, *infra*.]

1691.  
Feb. 16. Ordinance of Mgr. the Bishop of Quebec. For the remedy of various abuses. *Printed in Paris.*

1694.  
March 8. Ordinance of Mgr. the Cardinal de Grimaldy, archbishop of Aix. Received and authorized for the Diocese of Quebec in the Synod held at Ville-Marie, March 8, 1694.

Ordinary cases in which confessors must refuse or defer absolution. [In duplicate.] *Printed in Paris.*

March 10  
and 11. STATUTES PUBLISHED IN THE SECOND synod held at Ville-Marie, March 10 and 11, 1694. *Printed in Paris.*

MANDEMENT CONCERNING THE RESERVED CASES OF THE DIOCESE OF QUEBEC (Mgr. St. Vallier). *Printed in Paris.*

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- 1698,  
Feb. 28. Mandement (?) incomplete [Mgr. St. Vallier]. Rules for parish priests, etc., with supplementary statuts passed in the third session of the Synod. *Place of printing not given.*
- 1796,  
Dec. 16. Encyclical of Pope Benedict XIV. on Prayer.
- 1777,  
June 15. Circular letter to the clergy of the Diocese of Quebec *re* a certain office and Mass.
- 1785,  
April 12. CIRCULAR LETTER TO THE CURES. *Re* disease known as 'Baie St. Paul disease.'
- 1787,  
March 16. Circular letter to the Country Curés *re* the granting of liquor licenses. [Duplicate.]
- 1789,  
Dec. 9. *Circular letter to the Curés (of the diocese).* Instructions *re* annual census of inhabitants ordered by Lord Dorchester. [Mgr. Hubert].
- 1791,  
April 15. MANDEMENT OF MGR. HUBERT, permitting work on certain days of obligation. [Duplicate.]
- 1793,  
Oct. 28. By the same. Revoking certain provisions of two former Mandements.
- 1793,  
Nov. 9. By the same. CIRCULAR TO THE CURES. *Re* possible attack on Lower Canada by French fleet: an exhortation to loyalty to the British government. Reminds the people of the oath taken by their fathers to the King of England. [Duplicate].
- 1804,  
Jan. 15. MANDEMENT OF MGR. DENAUT prescribing a Mass *pro tempore belli* for Wednesday, February 1.
- 1722,  
Nov. 15. Mandement (MS) of Mgr. de St. Vallier, proclaiming the Jubilee of 1722.

FROM FRANCE.

Archives des Colonies—

Ordres et Dépêches du Roy concernant les Colonies:

- Série B, vol. 37, année 1715.  
Série B, vol. 38, année 1715-1716.  
Série B, vol. 39, année 1717.  
Série B, vol. 40, année 1718.  
Série B, vol. 41, année 1719.  
Série B, vol. 42, année 1720.  
Série B, vol. 42<sup>bis</sup>, année 1712-1721.  
Série B, vol. 43, année 1721-1731.  
Série B, vol. 44, année 1721.  
Série B, vol. 45, année 1722, parts I. & II.  
Série B, vol. 46, année 1724, part I.  
Série B, vol. 47, année 1724, part II.  
Série B, vol. 48, année 1725.  
Série B, vol. 49, année 1726.  
Série B, vol. 50, année 1727.

Archives Nationales—

- Papiers de Monts, 1605.  
Série F. 3495. Rapport et état des Acadiens, 1763-1790.  
Collection Moreau St. Méry, Série F. 3, Vols. 50, in 2 parts. and 51, being a Description and History of Ile Royale, 1686-1766.

SERIES M. 204.

Joint letter written to the Court by M. de Callières, Governor, and M. de Beauharnois, Intendant, of New France, and M. de Champigny.



- English vessels have arrived at Quebec to sell flour there.
- 1703,  
Mars 11.  
1703.  
Building of churches, etc.  
Statement shewing the expenditure of New France in 1703.  
Joint letter of MM. de Vaudreuil and de Beauharnois, setting forth the general condition of the country. Recommending the younger de Varennes for his noble conduct during the siege of 1690.
- 1702,  
April 10.  
Statement of expenditure in New France.
- 1-6-1704.  
N. D.  
Statement of expenditure in New France.  
Draft of proposals made to work in earnest at whatever might contribute to the benefit and advantage of the King's interests and those of his subjects in New France.  
Second copy with alterations follows.
- 1705,  
Marly,  
April 15.  
1710,  
Oct. 10.  
Rochefort,  
1712,  
Dec. 7.  
Fontaine-bleau,  
1714,  
April 11.  
Marly,  
1704.  
Quebec,  
1702,  
Aug. 30.  
Michillimackinac,  
Letter from M. de Pontchartrain to M. de Beauharnois.  
Letter from M. de Beauharnois to M. de Pontchartrain.  
Letter from M. de Pontchartrain to M. de Beauharnois.  
Letter from M. de Pontchartrain to M. de Beauharnois.  
Joint letter written to the Court by MM. de Vaudreuil and de Beauharnois respecting Canadian affairs in general.  
Letter from Father Etienne de Carheil, of the Society of Jesus, respecting the state of the missions in the country.
- Memorial from Lino, Canadian Deputy, requesting in the name of the colony the abolition of the "droit de quart."  
Letter from M. de Ramesay to the Marquis de Vaudreuil, respecting an insult to Sieur Chartrain, Ensign, by Denis Juchereau de la Ferté.  
Letter from Riverin respecting Canadian matters.
- 1704,  
March 21.  
Paris,  
April 3.  
Montreal,  
November.  
Letter from Burgamont respecting the expedition despatched against the English by Vaudreuil.  
Letter from de Lino to de Pontchartrain explaining to him what passed in Canada during 1703.  
Letter from Pontchartrain to Beauharnois.
- 1703,  
June 20  
Versailles,  
Memoir as to the present condition of the business of the "Compagnie du Canada," (between 1701 and 1705).  
Memorial presented by direction of the "Compagnie de la colonie du Canada," to Callières and Beauharnois about the necessary means to keep up its trade, etc.  
Answer from de Lino as to the Memorandum sent by M. Riverin respecting the sale of beavers in 1700, 1701, 1702 and 1703.
- 1704,  
Dec. 18.  
Quebec,  
1705,  
Jan. 27.  
Paris,  
1704,  
June 14.  
Versailles,  
Memoirs of Riverin. Reasons for the bad state of affairs in the colony of Canada.  
Letter from Pontchartrain to Beauharnois.
- Extract respecting the Bishopric of Quebec.  
Movements of the King's Squadron near St. John's, Newfoundland.  
Memorandum on the posts and the trade in the Upper Country. Unsigned and undated.
- 1697,  
Sept. 2.



## CARTON K., 1232.

## CONTENTS.

Mémoires of M. de La Salle on Canada.

The Church in Canada.

Account of the Mission of Father Antoine Gaulin in the Micmac country and in Acadia, about 1720, and a letter from the Rev. François Le Maire, vicar apostolic of Louisiana.

Vidimus by Jean d'Estouteville, dated the 18th of January, 1540-41, of the letters patent granted Roberval of the 15th of the same month.

Letters patent to Roberval dated the 15th of January, 1540-41.

Vidimus by Jehan de Mareau, dated the 10th of February, 1540-41, of the letters patent to Roberval, dated the 7th of February of the same year.

Letters patent to Roberval, dated the 7th of February, 1540-41.

Power of Attorney, Roberval to Paul d'Auxilhon, dated the 27 January, 1540-41.

Extract from the registers of the Parliament of Rouen, dated the 9th of March, 1540-41.

Letters given by Roberval to Auxilhon, 9th of September, 1542.

Royal letters patent to Auxilhon, dated 26th January, 1542-43.

Order from Roberval to Auxilhon, dated the 11th of September, 1543.

Return of the lands owned by the Jesuits in New France, 1663.

Report on Canada, 10th May, 1694.

Manifesto by the Bishop of Quebec, 2nd October, 1694.

Bibliothèque Nationale—Fonds français.

Mss. No. 5085. Grant to Roberval, for a period of nine years, of all mines, minerals, &c., which he may discover and work.

Mss. No. 5503. Commission of Captain and Pilot General to Jacques Quartier, whom the King sends to the Saguenay, 17 October, 1540.

Mss. No. 9097 is a collection of documents, manuscript and printed, relating to the History of America, formed by Father Léonard de Ste. Catherine de Sienne, about the beginning of the XVIII. Century.

It contains:—

Short biographical notice of M. de Queylus.

Letter from Mgr. de St. Valier to the Recollets Fathers.

Various notes on Mgr. de St. Valier and on Canada, etc.

Discovery of the Mouth of the Mississippi by d'Iberville, with a superb map.

Letter from M. Delisle to M. Cassini on the Mouth of the River Mississippi.

Letter, unsigned, written from a point 45 leagues from the mouth of the Mississippi.

Extract of a letter from M. de Tonty, "Description of the River Mississippi," with a map.

Letter from Tonty.

Various letters respecting d'Iberville and the Mississippi.

Extract from the relation of the adventures and travels of Mathieu Saguean (born at the village of Lachine), written about 1700. Extremely curious.

Letter from M. Le Fevre.

1698-99.

1700,  
Feb. 28.

1700.  
Oct. 10.

About 1700

Mobile,  
1702,  
March 15.

Rochefort,  
July 10.

Extract from a letter by Rochefort containing the answers to questions put to d'Iberville touching his journey to the Mississippi.

Paris,  
1702,  
April 6.

Historical letter respecting the Mississippi, written by de Remonville, respecting d'Iberville and the Mississippi.

Fort St. Louis  
Louisiana,  
1704,  
Sept. 10,

Anonymous letter from Fort St. Louis, Louisiana.

Memoir *re* the discovery and the conquest of the country of Quivira and Théoquaye, in North America. There is reference made to Canada and Acadia.

Mss. No. 9773. Brief of Pope Clement XIV forbidding the publication of the Jesuit Relations, 6 April, 1773.

Mss. No. 10207 contains the following documents:—

Agreement between the Directors and Associates of the Company of New France with the Deputies of Inhabitants of the said Country. Agreed to and confirmed by the King, 1645.

Memo showing the necessity of carrying on war against the Iroquois and detailing the means to realise this project.

Articles of capitulation granted by Nicholson to Subercase for the surrender of Port Royal, in Acadia.

Letter from Nicholson to Subercase, dated 3rd October, 1710.

Letter of Subercase to Nicholson, dated the 1st of October, 1710.

List of the vessels armed for the siege of Port Royal, with a list of the regiments, etc.

Mss. No. 10569 contains the following documents concerning the establishment of the Séminaire des Missions Etrangères, its constitution and the form of its government, etc., 1662-1775;

Deed of gift by the Bishop of Babylone and MM. De Norangis & de Garibal, for the establishment of the Seminary. 16 March, 1663.

Agreement between the Bishop of Babylone & MM. De Morangis and de Garibal. 16 March, 1663.

Deed by MM. de Morangis & de Garibal, dated the 18th of March, 1663, in favor of MM. Gazil & Poitevin, of the above donation.

Royal letters patent confirming the above donation and contract, and the establishment of the Seminary.

Summary for the Superior and Directors of the Séminaire des Missions Etrangères *vs.* Sieurs Girard, Manac and the intervening parties.

Copy of the conclusions of the Superior and directors of the Séminaire.

Extract from the registers of the King's Privy Council on the petition presented to His Majesty in Council by Christophe de Beaumont, Archbishop of Paris, in which he states that he is obliged to appeal against the decree which, in spite of all rules, has rejected an opposition formed with the express consent of His Majesty, to the registration of the letters patent.

Notes on the above petition.

Letters patent concerning the foreign missions, May, 1775.

Notes on the above letters patent.

Proviso of the decree of Parliament of the 6th of September, 1764, which maintains the Superior and directors of the Séminaire des Missions Etrangères, established at Paris in the position of the said Seminary.

Mss. No. 11248. Collection of original documents & copies relative to the wars sustained by France between 1706 and 1779.

Letter from Lévis, dated Carillon the 15th July, 1758.

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News from the Camp at Carillon on the frontier of Lake St-Sacrement, 19th Oct., 1758.

Account of the victory gained by the troops of the King at Carillon on the 8th July, 1758.

Another relation of the victory gained by the troops of the King at Carillon on the 8th July, 1758.

Return of the officers and soldiers killed or wounded in defending the abatis near Carillon on the 8th of July, 1758.

Return of officers killed or made prisoners on the 6th of July, 1758.

Mss. No. 11319-11321. Returns of the receipts & expenditures of the marine de Ponant for the years 1632, 1633, 1634.

Mss. No. 11332 contains the following documents:—

Letters patent in favor of Comte de St-Pierre granting him exclusive fishing privilege on the islands granted to him in the Gulf of St. Lawrence. Paris, March, 1722.

Decree of the King's Council of State granting 300,000 livres to defray the expenses of Louisiana, dated 11th April, 1722.

Decree of the King's Council of State repealing the letters patent granted to Comte de St-Pierre in March, 1722. Dated 13th October, 1725.

Decree of the King's Council of State appointing Sr. Baron to go to Louisiana and the West Indies to make observations and scientific recherches. Dated 4th March, 1727.

Comte de Maurepas, Secretary of State for the Marine Department, to His Majesty the King. Account of the foreign trade of the Kingdom. Versailles, 3rd October, 1730.

Mss. No. 11340 contains:—

Memoir against the projects of the English concerning our Colony in South America, by Mr. de la Galissonnière.

Memoir on the financial condition of the Colonies.

Declaration by the King concerning the accounts of the Treasurers General. Dated March 4th, 1744.

Mss. No. 11342 contains:—

Memoir relating to the Order in Council of the 15th of October, 1759, concerning the payment of the letters of exchange drawn by the French Army in America on the Treasurers General of the said Colonies.

Memoir in which some means to reestablish the credit of the Colonial letters of exchange are proposed.

Copy of a letter from Bigot to M. Berryer, dated Quebec, 12 August, 1758.

Same to same, 16th May, 1758.

Same to same, dated Montreal, the 25th of October, 1759.

Mss. No. 11735 contains two documents:—

Deed of sale by Pierre LeMoyne d'Iberville to Pierre Pointeau of 51,997 lbs. of beaver. Dated February 21, 1696.

Invoice of the beaver skins stored at La Rochelle on the 17th of November, 1695, by Mr. d'Iberville.

Archives des Affaires Etrangères—

Mémoires et documents, Amérique, Vol. VIII., 1735-1748.

Correspondance politique, Etats-Unis, Vols. 1, 2, 3, 1776.

Archives du département de la Seine-Inférieure—

Letters patent to Roberval, 1540, and de la Roche, 1598.

Extracts from the documents in vol. 8027 of the "Collection des pièces originales de la Marine, consistant en lettres, notes, instructions, ordres, ordonnances, projects et mémoires minuttés de la main de Colbert et du Marquis de Seignelai, son fils, pendant les années 1669-1677."

This volume (or N° 8027) which forms part of the French manuscripts preserved in the National Library (fonds français) at Paris, comprises the "Correspondance et ordres divers pour la Marine de Ponant, matériel, flottes qui partent et naviguent sur l'Océan."

Although this volume was mentioned in our former report, it has been deemed of service to research to give textually, here, the principal points of the documents where they refer to Canada, to Acadia or to Plaisance.

1669.  
Paris,  
April 4.

M. de Colbert, comptroller general of finance and Secretary of State for the Navy Department, to M. Colbert de Tron, intendant at Rochefort:—

Surprised to note the agreement made by you with the S<sup>r</sup> le Gagneur, as I found it greatly in excess of all that has been done in recent years, and I was under the impression that it was so well established a rule, and one so well known to you, that it was wholly unnecessary to write to you about it; you know that we have always given a hundred livres for each person, namely, 10 ₣ for collection, 30 ₣ for clothing, and 60 ₣ for the passage and a temporary supply of necessaries in the country, you have seen this rule adhered to every year hitherto, the Directors of the West Indian Company have gone so far as to admit that they made a profit on it, and now I find that you have largely increased it. It would be better to break the agreement made with Le Gagneur than to inaugurate this change, and if you could not come to terms with him at the same rate, you should at least have written me about it

In regard to live stock, in past years we have given 1440 ₣ for 12 mares, 400 ₣ for two stallions, 300 ₣ for 50 sheep, and 11200 ₣ for the transport of this number, I have sent you all these amounts at this rate, and you must either break your agreement or le Gagneur must come down to the amounts I have sent you.

In regard to whatever else remains to be done for the country in question, as also for the tons of freight, the officers who are in Canada, the troops, hired labourers and trade, you must be guided by M. Talon, and be sure to render him assistance in all that he may ask of you.

As to the said legagneur's departure, you may arrange it to suit his convenience, without waiting on the S<sup>r</sup> Talon.

In respect of the pay of the troops who were in Canada, I admit that I know nothing about it, and have given up any attempt to straighten out the matter on account of finding it too difficult to do so; the said S<sup>r</sup> Talon claims that there are officers who have never been paid.

There ought to be no difficulty in supplying the S<sup>r</sup> Talon with a good transport, the matter rests with you, if you think the S<sup>r</sup> Charles or the S<sup>r</sup> Sebastien are capable of doing so, you can come to terms with him. but I should be inclined to prefer the S<sup>r</sup> Sebastien.

1669.  
Paris,  
April 12.

The same to the same. I have written to you fully on all matters relating to Canada and to the Northern Co. to which I refer you, and await your replies, the S<sup>r</sup> Talon's secretary is to start shortly to arrange everything for his journey and to conduct all the troops destined (for Canada). I will send you full details by him of all that has been done, in order that you may see to its being carried out.

Paris,  
April 15.

The same to the same. I rely on you to supply such a ship as you shall deem suitable for Canada. I shall send you by the present order details



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1669.  
Paris,  
April 19.

of all that has been done for the country in question in order that you may know whether everything has been carried out.

The same to the same. I am very glad you did not grant the sum I sent you for the 200 persons destined for Canada, you know how important it is to keep within definite limits in regard to an outlay which must be renewed every year. I am sending you particulars of all that has been done with the *Sr Talon* in connexion with Canada, in order that you may be able to ascertain if everything is complete. You have done wisely in appointing a special commissioner to oversee the shipment both of men and of supplies, let him make a detailed report of everything and send it to me.

You have my full consent to supply such a ship as you may deem best fitted for such an embarkation.

St. Germain,  
May 24.

The same to the same. In connexion with Canada, I beg that you will henceforth make arrangements to have ships built there, and though I am well aware of the difficulties, you may rest assured that if we set ourselves to it at once we shall overcome the difficulties one by one, and that we shall succeed within three or four years in establishing a large shipyard capable of turning out three or four good ships every year. It will be necessary to send carpenters out there this year, to prepare timber and even to begin building if possible. The example we shall give will lead the colonists to build likewise, and an oversea trade as well, and even the Northern Co. will be able to have the ships required for its trade built there, which is why we must send carpenters to prepare the timber, and we must also send out, this year, a man skilled in iron foundries, to search for deposits (of iron) which must surely exist in such a country, and if we can have timber and iron we shall make a great profit out of the country in question. *Mr Talon* must also be urged to endeavour to discover deposits of copper.

In regard to carts, I am aware that the conditions of the country are not suitable for them, but you will see that, in time, the necessary facilities will be attained.

St. Germain,  
June 20.

The same to the same. I am greatly surprised that *Mr Tallon* has not yet arrived (at Rochefort). I was informed at his lodgings that he had left a long time ago, I do not know what excuse he can make for so long a delay, but it is certainly very detrimental to the King's service. . . . . You will be good enough to let me know what sort of man the *Sr de Ste Colombe* is, and your opinion of his ability and experience.

St. Germain,  
June 27.

The same to the same. I am anxiously awaiting the report which you have made in collaboration with *Mr Talon* on the settlement that has been made in Canada, I have already made it sufficiently clear to you how important and necessary He is to the King's service; you will also hasten his embarkation.

St. Germain,  
July 22.

The same to the same. I am anxiously awaiting news of the *Sr Talon's* departure with the ships for Canada; there can be no doubt that a King's order was required for receiving Acadia from the English, but it is now too late to send it in time for next year, you are right in saying that this country of Acadia may be of great service to us. We must set ourselves to the task of colonizing it in the near future. . . . I await particulars of all that was shipped for Canada. . . . I have forwarded the authority for receiving Acadia from the hands of the English, and have sent to you by a special messenger, God grant that he may yet overtake the *Sr Talon* in the lower reaches of the river Charente.



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1669.  
St. Germain,  
July 29.

The same to the same.—In reply to your letter of the 25<sup>th</sup> instant, which has reached me by messenger whom I sent to you, I am bound to tell you that we must now set ourselves to colonize Acadia and to this end must send a certain number of workpeople there next year, between now and then you will make careful enquiry into everything that can be done in connexion therewith. I am of opinion that it may prove necessary to debar those who own land there up to the present for not having sent out the number of men they were bound to send. My idea would be to send only 100 girls to Canada next year without sending any men except those who may wish to go of their own accord, all the more that the country seems to me to be now sufficiently peopled to be self-supporting; And we must send 50 men or as many more as we can to Acadia and fortify the settlement of Plaisance. . . .

St. Germain,  
Aug. 7.

It would have been better had the S<sup>r</sup> Talon sent me a report of all that had been shipped for Canada, before he left.

The same to the same. I again call your attention to your squadron for the Levant, and to the preparation of all matters required for colonizing Acadia next year, in regard to Canada we must be content with sending out 100 girls and workmen for shipbuilding.

St. Germain,  
Sept. 13.

The same to the same. You are at liberty to send either the S<sup>r</sup> Dubourg or the S<sup>r</sup> Girardin to Acadia, I merely find the latter very young, if he has a sufficient knowledge of naval affairs he might be given some other duty; we must most certainly send out and make this settlement and fortify the one at Plaisance, moreover, should you deem it necessary you may even send out the S<sup>r</sup> de Ste Coulombe.

Paris,  
Oct. 7.

The same to the same. I am very much pleased with the manner of the S<sup>r</sup> de Palme's report on the settlement of Plaisance, but not with the settlement itself, especially if it be necessary, as it appears to be, to send them supplies from France, and if the country can produce nothing, not merely for trade but even for the existence of the colonists, it would be much better to withdraw them and send them to Acadia, all the more that I see no likelihood of our being able to acquire possession of the cod fishery by means of this settlement. It would be well in any case to send the S<sup>r</sup> la Courteide there.

I am in receipt of the S<sup>r</sup> de Courcelle's letter from Canada. I should have liked to know what ship it came by, and what it brought. I consider that country to be in a fit state to support itself, even if we have to send out 150 or 200 girls next year, and even that it would be risky to send out more men until more land shall have been cleared.

St. Germain,  
Oct. 21.

The same to the same. I hope we shall soon have word of M. Talon's arrival at Quebec. As to Plaisance, I am of opinion that it is to our advantage to maintain it as a post but it must be done in such a way as not to be an expense to the King every year, you will give the S<sup>r</sup> la Courteide clear instructions on this point when you send him out there.

St. Germain.

The same to the same. I am anxiously awaiting news from Canada. We must make out preparations early this year.

St. Germain,  
Dec. 4.

The same to the same. I am sending you the King's orders for the lodgment and quartering of the six companies of infantry who are to return with M. Talon. I do not think we should count on him for this second voyage, not that it would not be well to keep him up to it, but whether he goes or does not go, the same ship must be despatched at the beginning of the month of September next.

You are at liberty to make all the arrangements necessary for sending the S<sup>r</sup> de la Poëpe to Plaisance, and to ascertain at the same time if you

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can find one of the captains of these six companies willing and qualified to undertake the settlement of Acadia, in which case you may draw up an estimate of the expense entailed and send it to me.

1669.  
Dec. 13.

His Majesty's instructions to the S<sup>r</sup> Colbert de Terron of December 13, 1669.

...the S<sup>r</sup> Tallon's return being very detrimental to H. M.'s service, there is nothing to be done but to endeavour to restore everything connected with his embarkation and to see that he starts again in the month of Feb. next, and to increase if possible the facilities provided for the building of several vessels in that country. It seems clear that the misfortune of this delay arises from the undue postponement of the sailing of his vessel, and from the leak that was found in her as soon as she put to sea.

Paris,  
Dec. 19.

His Majesty's instructions. ... His Majesty desires that, so soon as the S<sup>r</sup> Charles shall have arrived the men and goods landed from [the ship] shall be carefully kept together, and that the whole shall be immediately got ready for reshipment and transport to Canada by the month of Feb<sup>r</sup> next.

St. Germain,  
Dec. 23.

His Majesty's instructions in reply to the S<sup>r</sup> Colbert de Terron's report of the 15<sup>th</sup> of the said month. ... H. M. gives the S<sup>r</sup> de Terron permission to arrange with the person of the name of le Gagneur for the transport to Canada of the troops, supplies and all that it may be necessary to convey thither this year, and H. M. will further send by way of Normandy girls to the number of 100.

M. de Colbert to M. Colbert de Terron. ... I am anxiously awaiting the decision you have come to with M. Talon in regard to the proposals I made to you in connexion with Canada.

1670.  
Paris,  
Dec. 19.

The same to the same. I am returning you M. Tallon's letter after having read it, if what he says is true it seems to me that everything in Canada is going on satisfactorily. We must wait for the letters his secretary is bringing. I do not know how to account for so long a delay: as far as Gagneur is concerned it is for you to ascertain whether he is in fault or not; I admit that it is not pleasant to find oneself exposed to the risk of perishing twice over; we must think of what can be done for Canada next year.

1671.  
Paris,  
March 9.

The same to the same. I am instructing the Comptroller of the Navy to send you by this post the amounts of 10 thousand livres on the one hand for the colony of Plaisance and 26 thousand on the other for that of Acadia, to enable you to carry out the arrangements you have made with Beaussay for these two colonies; you will take special pains to ascertain the conduct of the two commandants in these colonies since the settlement and growth of these colonies depend, most assuredly, on their good or ill behaviour; as the land of Newfoundland is very non-productive we must be content to settle fishermen at Plaisance, but in the case of Acadia, we must enlarge it year by year, in proportion as the cultivation & productiveness of the land shall permit, and it is on this account that you must take every means possible to be well informed of all that takes place in that country.

## ENGRAVED PLANS.

The following engraved plans have been received from France:—

N° 1.—Vue de New-York, tirée de la *Beschrijvinghe van Virginia, Nieuw-Nederlandt, Nieuw-Engelandt, en de Eylanden Bermudes, Barbados en S. Christoffel. Amsterdam, Joost Hartgers, 1654.* Cette vue, qui est à juste raison considérée comme la première que l'on connaisse de Nieuw-Amsterdam, aujourd'hui New-York, se trouve à la page 21 de l'ouvrage, qui est de toute rareté. (Sur le titre.)

N° 2.—Carte de la Nieuw-Nederlandt avec une vue de Nieuw-Amsterdam (New-York) tirée de l'ouvrage de: *Adriaen van der Donck, Beschryvinge van Nieuw-Nederlandt (gelijck het Tegenwoordigh in staet is), begriipende de nature, aert. Den tweede Druck. t'Aemsteldam, Evert Nieuwenhof, 1656.* La vue de Nieuw-Amsterdam, aujourd'hui New-York, qui se trouve au bas de la carte, est la seconde vue de cette ville que nous connaissions; elle se trouve vis-à-vis la page 1 de l'ouvrage de Van der Donck.

N° 3.—Le plan de Manathes ou Nouvelle-Yorc, vérifié par le sieur de La Mothe, 1693. Ce plan, fort curieux, fait partie de la *Carte de la côte de la Nouvelle-Angleterre, depuis le cap Anne jusqu'à la pointe Nevresing, où est compris le chemin par terre et par mer de Baston à Manathes, par J.-B.-L. Franquelin, hydrographe du Roy, qui appartient aux Archives du Dépôt de la Marine, sous le n° Pf. 135, division 1, pièce 1.*

N° 4.—Carte de la ville, baie et environs de Baston, par Jean-Baptiste-Louis Franquelin, hydrographe du Roy, 1693, vérifiée par le sieur de la Motte, dont l'original appartient aux Archives du Dépôt de la Marine, sous le n° Pf. 135, division 6, pièce 6.

Nos 5-6.—Plan de la ville Marie ou Montréal, au Canada, sans date ni nom d'auteur. Les indications qui s'y trouvent portées nous font supposer, à raison croyons-nous, qu'il est de 1720. Il provient de la Congrégation de Saint-Sulpice et se trouve actuellement déposé aux Archives nationales sous le n° 2, Canada n° 4. (2 feuilles.)

N° 7.—Carte figurative du prompt secours envoyé par l'ordre de mon seigneur le marquis de Beauharnois, chevalier de l'ordre militaire de Saint-Louis, gouverneur et lieutenant général pour Sa Majesté dans tout l'estendue de la Nouvelle-France, au vaisseau du Roy l'Eléphant, le 2<sup>e</sup> septembre 1729. Dessigné par Mahier, à Québec, le 15 octobre 1729. Dans la partie supérieure de gauche, une vue de Québec; à la partie inférieure de gauche, une vue du château de Québec; à la partie supérieure de droite, une petite vue de Beauport. Curieuse pièce appartenant au fonds de la Bibliothèque nationale, cartes Klapproth 589.

N° 8.—Vue de Québec prise de l'est, entourée d'une draperie soutenue par des anges. Cette vue est tirée d'une carte manuscrite de la Nouvelle-France, etc., qui porte en cartouche: à Monseigneur, Monseigneur le comte de Maurepas, ministre et secrétaire d'Etat, superintendant général de la marine, par son très humble et très obéissant serviteur de Fonville, enseigne d'une compagnie franche du détachement de la marine, à Québec, en Canada, 1699. Cette belle carte, en quatre feuilles, est encadrée par des cariatides qui rappellent celles du temple d'Érichée, et offre dans de nombreux cartouches des vues de Québec, de Saint-Augustin, de la Floride, etc. Elle appartient à la bibliothèque du Dépôt de la Marine, sous le n° B. 4040-9.

N° 9.—Vue de Québec, prise du nord-ouest. Cette vue est tirée de la carte indiquée sous le numéro précédent, où elle se trouve dans le coin



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du bas, à droite, entourée d'un cadre architectural formant base de colonne.

N° 10.—Vue de Québec, comme il se voit du côté de l'Est. Jolie vue entourée d'un cadre formant fontaine, les côtes représentant des cariatides la partie supérieure composée d'attributs militaires rangés en panoplie double séparée par un écusson portant les indications de la planche. Belle pièce tirée d'une carte intitulée: *Carte de l'Amérique, entre les 25° et 65° degrés de latitude, et depuis environ les 240° jusqu'aux 340° de longitude, contenant les pays de la Nouvelle-France, la Louisiane, Floride, Virginie, Nouvelle-Yorck, Nouvelle-Angleterre, Acadie, etc., par Jean-Baptiste-Louis Franquelin*, 1699, et qui appartient à la bibliothèque du Dépôt de la Marine, sous le n° B. 4044-10.

N° 11.—Vue de Québec, entourée d'un cadre ornementé; au bas, des sauvages préparent leur nourriture dans une grande chaudière. Jolie vue tirée d'une carte intitulée: *Partie de l'Amérique septentrionale où est compris la Nouvelle-France, la Nouvelle-Angleterre, la Nouvelle-Albanie et la Nouvelle-Yorc, la Pensylvanie, la Virginie, la Caroline, la Floride, la Louisiane, etc., par Jean-Baptiste-Louis Franquelin, géographe du Roy*, 1699, et qui appartient à la bibliothèque du Dépôt de la Marine, sous le n° B. 4044-12.

N° 12.—Partie de la *Carte de l'Amérique septentrionale entre 27 et 64 degrés de latitude, et environ 250 et 340 degrés de longitude, où est compris le pays de la Nouvelle-France, la Nouvelle-Angleterre, la Virginie, la Caroline, la Floride et tous les environs du grand fleuve Mississippi. Le tout très correctement et très exactement dressé sur ce qu'en a vu l'auteur, et sur les justes et fidèles mémoires et relations qu'il a eu soin de recueillir depuis plus de douze années, de gens experts qui ont voyagé dans toutes ces contrées, par Jean-Baptiste-Louis Franquelin, dessiné et écrit par F. de La Croix*.—Cette carte, bien que non datée, est peu postérieure à l'expédition de Beaujeu et à la mort de Cavelier de la Salle, 1687. Nous y trouvons une des premières indications exactes de l'emplacement de Chicago (Chicagou) et des forts et villages dans toute la région environnante; le Mississippi s'y trouve porté, mais sous des pas postérieure à 1680 et appartient à la bibliothèque du Dépôt de la sous le n° B. 4040-8.

N° 13.—Carte des grands lacs (1679), attribuée à J.-B.-L. Franquelin, le cartouche est vide: des rennes, des ours et des bisons sont portés en différents points: l'original appartient à la bibliothèque du Dépôt de la Marine, sous le n° B. 4044-40.

N° 14.—Carte de la rivière de Saint-Laurent depuis Québec et la rivière du Sault de la Chaudière, côte de Lauson, jusqu'aux Mille Îles, la rivière d'Ottawa jusqu'au-dessus du Sault de la Chaudière, la rivière Richelieu et le lac Champlain, la rivière du Nord, des Traités ou Maurice, depuis ses sources jusqu'à Albanie, ci-devant fort d'Orange, et la côte de l'Atlantique depuis Hariston's Baye jusqu'à Baston. Curieuse carte qui, bien que non datée, ne peut être postérieure à 1679. Elle appartient à la bibliothèque du Dépôt de la Marine, sous le n° B. 4044-45.

N° 15.—Carte de la région située aux environs du lac Ontario ou de Frontenac, la rivière des Outaouais depuis le Sault de la Chaudière, le lac Shekoven ou Nipissing et les portages entre ce lac et la rivière des Outaouais et avec le lac des Hurons par la rivière des Français. Cette carte porte de nombreuses notes indiquant la situation des tribus indiennes, de leurs villages, les routes suivies par les Indiens, les endroits

de pêches et de chasse, etc.; sur la rivière qui sépare le lac Ontario ou le Frontenac du lac Erié se trouve l'indication: *Chute haute de 120 toises par où le lac Erié tombe dans le lac Frontenac*, et en face: *Kakoüagoga, nation détruite.* Cette carte, dont la date peut être fixée à 1679, appartient à la bibliothèque du Dépôt de la Marine, sous le n° B. 4044-43.

N° 16.—Carte du lac Huron, Karegnondi ou mer des Hurons où sont indiqués les tribus, les villages indiens ainsi que la route qu'ils suivaient, aussi *le chemin par où les Iroquois vont aux Outaouais qu'ils avaient mené trafiquer à la Nouvelle-Hollande si le fort Frontenac n'eust été basti sur leur route* par le village de Ganatchekragon sur le lac Ontario ou de Frontenac, le lac de Taronto, etc. Curieuse carte qui, bien que non datée, ne paraît pas postérieure à 1679 et dont l'original appartient à la bibliothèque du Dépôt de la Marine, sous le n° B. 4044-44.

N° 17.—Carte des lacs Tracy ou Supérieur, des Illinois et des Hurons avec la rivière Colbert et le pays au nord du lac Tracy jusqu'à la baie ou golfe de Hudson et la rivière des Assinipoul. La rivière Colbert prend sa source dans le pays des Nadouessi et peu au-dessous de ses sources est indiqué un saut (celui de Saint-Antoine); sur un petit affluent de gauche de la rivière se trouve une croix avec l'indication: *Icy mourut le P. Meynard*; elle se termine brusquement au-dessous de sa jonction avec un affluent de droite Minoa, peu au-dessous duquel se trouve l'indication d'un saut. Cette fort curieuse carte, bien que non datée, ne paraît pas postérieure à 1680 et appartient à la bibliothèque du Dépôt de la Marine, sous le n° B. 4044-47.

N° 18.—Carte des lacs et des régions à l'ouest de la baie d'Hudson. Cette carte, qui date des premières années du XVIII<sup>e</sup> siècle, est d'un intérêt tout particulier: en outre de la grande quantité de notes originales qu'elle porte, nous y rencontrons les indications sur une rivière coulant vers l'ouest et aboutissant à la mer de l'Ouest qui s'y trouve représentée. L'original appartient à la bibliothèque du Dépôt de la Marine, sous le n° 4044-42.

Nos 19-20.—Carte générale des paroisses et missions établies des deux côtés du fleuve Saint-Laurent, depuis Rimousky en montant jusqu'au coteau des Cèdres. Cette carte fort importante, qui date de la fin du XVII<sup>e</sup> siècle, est reproduite à moitié grandeur de l'original qui a 3<sup>m</sup>,47 de long sur 0<sup>m</sup>,34 de haut, et qui appartient aux Archives du dépôt des cartes des Affaires étrangères, sous le n° 8663 (2 feuilles).

Nos 21-22.—Carte des côtes habitées du Canada par paroisses et par seigneuries, signée Deshaies. Curieuse carte portant le nom de toutes les seigneuries existant en 1686. L'original appartient aux Archives du dépôt des cartes du ministère des Affaires étrangères. Nouveau fonds (2 feuilles).

N° 23.—Carte des régions entre le Saint-Laurent et la baie d'Hudson de la main de L. Jolliet, sous ce titre: *Cette carte montre le chemin que Louis Jolliet a fait depuis Tadoussac jusqu'à la mer du Nord dans la baie d'Hudson et du destroit. Ce qui est marqué de rouge est le chemin par où il a esté. Fait à Québec en Canada le 5 novembre 1679.* L'original appartient à la Bibliothèque nationale. Cartes. Vol. 388 (153).

Nos 24-25.—Vue de la ville de Louisbourg, prise en dedans du port. Verrier fils, *fecit* 1731. L'original appartient à la Bibliothèque nationale. Cartes C. 18 830 (2 feuilles).



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N<sup>os</sup> 26-27.—Plan de la ville de Louisbourg avec les fortifications du côté des terres, vers 1731, avec les indications des nouveaux ouvrages d'art à construire pour la défense de la place. L'original appartient à la Bibliothèque nationale. Cartes. C. 15 980 (2 feuilles).

## PAPERS RECEIVED FROM A. G. DOUGHTY.

## LADY DURHAM'S JOURNAL, 1838.

Private letters, journals and family papers have always proved fertile sources of intimate and particular information for which the student of history might otherwise search in vain, and without which he is in constant danger of wrongly estimating or misinterpreting causes, motives and events.

No period, certainly no one year of Canadian history, it may be said without exaggeration, was fraught with graver possibilities and more imminent dangers, none, perhaps, has been so unfairly dealt with as the year immediately succeeding the rebellion of 1837. In none, it may be added, have the motives and proceedings of the principal actors been more bitterly or more cruelly assailed. When, therefore, we come upon such a journal as the one here summarized, one that admits us, as it were, behind the scenes, and shows us the chief personage of the period as he appeared to the one person, of all others, who knew and understood him best, we cannot be sufficiently grateful, either to the writer or to those who have placed it within our reach.

Lady Durham, the daughter of one great statesman and the wife of another, dowered, as she shewed herself to be, with no small share of her father's ability, was singularly fitted to be the mate for the man who, at a crisis in Canada's history, was called upon to settle seemingly irreconcilable differences and to solve problems which seemed well nigh insoluble; who, having "made a nation and ruined a reputation," is only now beginning to take his true place among the great builders of the British Empire.

The journal opens with the first offer made to Lord Durham in the summer of 1837, and shows his reluctance to assume so great a responsibility, a reluctance which he overcame later in deference to the wishes of the government.

The account of his voyage, and of the impressions made by the scenery of the St. Lawrence, the view of Quebec, etc., is most interesting. We note (p. 10) that, "from the moment of his arrival he [Lord Durham] devoted himself unremittingly to business." How exacting even his social duties were may be gathered from the statement that he never dined out of uniform from the day he landed to the day he sailed.

With the entry for June 28 we come to matters more strictly historical, "On this day," we read (p. 13), "was published the Act of Amnesty and his famous Ordinances relating to Prisoners. The penal measures," the journal continues, "were done in his own name," and, though "applauded by the continent of America," met with "no support among his own friends or from his miserable employers in the Govt. at home." With the sky of his new government overclouded thus early in the day, it is not difficult to understand a wife's bitterness at what she naturally regarded as shocking injustice to her husband. "Approving, as they did,

in private, most entirely, of what he had done, they yet abandoned," she says, "him without a struggle in the H. of Lords to the attacks of a faction consisting of their own bitterest enemies."

After various interesting details of travel to Kingston by way of the Thousand Islands, and elsewhere, we come, at page 41, to the next stage of the tragedy, in an allusion to the Governor's causes for anxiety. "Several things," we are told, "had passed in Parl<sup>t</sup>, which were far from satisfactory & he had become much more doubtful (with how much reason as it proved!) as to the manner in which the Ordinances of June would be received & the support which he would obtain from the Gov<sup>t</sup> at home." On September 18 the Governor received "private letters from Lord Melbourne, Lord Glenelg, and others, rejoicing over the manner in which the difficult affair of the Prisoners had been settled, & bidding him 'go on & prosper,' with other expressions of unqualified approbation." Even the Queen expressed "her satisfaction at all that was going on." But "a New York Paper," the writer adds sadly, 'reversed all these visions of success & happiness—it contained the account of the proceedings in Parl<sup>t</sup>—the disallowance of the Ordinances! & as it proved, the doom of his fate." (p. 42).

The account of the reception of the news by the public is of interest and importance, showing, as it does, how strongly the policy of Lord Durham was approved in this country and how dangerous an excitement was caused by the action of the Home Government. The writer states that, while the first and most general impression was that Lord Durham would not and could not stay, yet he would have yielded to the wishes of the country (by remaining) had Sir John Colborne, then in chief military command, not been "anxious for his departure." (p. 44). It was a decision which Lord John Russell, in a private letter, admitted as unavoidable, given the conditions prevailing at the time.

Passing over much that is of interest and value from a biographical point of view this account of, perhaps the most dramatic moment in the history of Canada, may be fittingly closed by the last paragraph in Lady Durham's Journal: "He was not able to take part in the session of 1840, but he saw the triumph of his views for Canada and could foresee the success of his principles. Justice is as yet imperfectly done to him, at least in England, but the time may come when he will be better appreciated." It is hoped that the formation of a sound opinion on the subject will be not a little hastened by the making accessible this account of the inner history of Lord Durham's mission to Canada.

#### SKETCH OF LORD DURHAM'S MISSION TO CANADA IN 1838.

*Written by Mr. Charles Buller in 1840.*

This account, by Lord Durham's secretary, of the events of one of the most critical years in Canadian history—1838—is of even greater interest and importance than Lady Durham's Journal, with which it should be compared at every point, inasmuch as each lends a singular corroboration to the other. The intense sympathy of the wife, it will be found, has caused little divergence, in the estimation of facts, from the broader view of the Secretary. Not that Charles Buller, who at the outset differed, as he confesses, on many points from Lord Durham, by any means

## SESSIONAL PAPER No. 15

refrains from a plain expression of opinion when occasion arises to express one. The sketch as a whole gains much in weight from its manifest candour.

Written in 1840, that is, within two years of the events recorded, it is natural that the author should begin by expressing his trust that time may make possible a just estimate of Lord Durham's work (p. 21). His object, as he states it, is to give "a succinct account of the state of affairs with which Lord Durham had to deal" (p. 31). After dwelling on Lord Durham's special fitness for his mission (p. 4), and the "show" of general support with which it met, he regrets the delay which occurred in entering on it (pp. 8, 9), and gives reasons for doing so.

We get the first hint of opposition on the part of the home government at page 10; and the trouble in connexion with Mr Turton's appointment at page 11. On page 15, the writer bears eloquent witness to Lord Durham's "singleness and honesty of purpose." He then explains Lord Durham's attitude towards the French Canadians, the state of the country and of parties, as well as of relations with the United States.

One of the Governor's earliest and most important decisions was in relation to the Executive Council. Former Governors had, successively, accepted the Council as a practically permanent institution; Lord Durham began his mission by an entire reconstruction of this most important instrument of Government.

The writer's reference (p. 52) to "malignant perfidy on the part of the Government" may be compared with the parallel passage in Lady Durham's Journal. For the entry concerning the ordinance in respect to Prisoners (p. 56), the writer, it is interesting to note, assumes the entire responsibility (note, p. 160).

Many interesting details must, necessarily, be passed over in so brief a review of this Sketch of Lord Durham's mission, many, indeed, are paralleled in Lady Durham's Journal. We may glance, however, at the Despatch *re* the Welland Canal, etc., (p. 80); at the commutation of seigniorial rights in Montreal; at the Governor's rebuke of what impressed him as Protestant bigotry, and at the relations indicated as existing between Irish Catholics and other British subjects (p. 86). The education reforms proposed by Lord Durham are also not without permanent interest, but his scheme of "a federation of all the existing colonies in North America," deserves very special attention and study. (pp. 100, 101).

On the vexed question of Lord Durham's resignation, the writer expresses his personal opinion freely, and without hesitation. While thinking that it would have been wiser, on Lord Durham's part—in his own interest, and in the interest of Canada—to remain at his post (p. 106), he yet approved of the resignation on account of the state of the Governor's health (p. 108). Whether, in view of his strained relations with the home government he could have stayed in Canada consistently with honour or self-respect may be left an open question; to have stayed would, as Mr Buller plainly shews, have entailed grave, if not fatal consequences to a life which was, in fact, shortened by the trials and disappointments entailed by this very mission. The sketch ends with a complete vindication of Lord Durham, and an estimate of what the Colonies owe him.

Private letters of Lord Durham to his successor.

Letter Book of Lord Durham.

Extracts of Letters from Lady Durham.



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JOURNALS AND LETTERS RECEIVED FROM HIS EXCEL-  
LENCY LORD GREY.

LETTERS OF COLONEL THE HON. CHARLES GREY, 1834.

(Travels in Canada and U.S.A.)

The chief interest, for Canadians, will be found in the earlier letters, wherein the writer sets down his impressions of a journey, by coach and steamer, from Kingston to Bytown, and thence to Montreal.

His first letter is dated: "Kingston, Upper Canada, June 5, 1839," and gives an interesting account of his journey from Kingston to Bytown, by way of the Rideau Canal. He notes, for instance, that the decay of Prescott and of the batteaux traffic of the Saint Lawrence may be directly traced to the opening of the canal (p. 3). But he also notes the prosperity of the country between Prescott and Brockville, which he contrasts with the "wretched cultivation" of Lower Canada, and with the condition of the "south or American bank," and this "in spite of Mr Buller" who, he holds, was misled (p. 9).

His account of Kingston, and of the Penitentiary, then in course of building, will repay attention. His high praise of the Rideau Canal, however, with his detailed description of the locks, lakes, construction; the "drowned lands" and dead trees; the facilities which it offers for settlement, and his defence of Colonel By, are of first-rate interest and importance.

He makes a passing allusion, at page 10, to Lord Durham's Report and to the "Family Compact," but otherwise avoids political topics. His account of Bytown, Aylmer, etc., in his letter of June 8, will appeal strongly to Ottawans; especially his views as to Bytown's claims to be the capital of the proposed United Provinces (p. 12), his reference to it as "the centre of the lumber trade," and his declaration that, with a situation "finer than that of Quebec," it was intended by nature to be "the first place in British North America."

The remaining letters, containing an account of his journey to Grenville and Montreal, and of his travels in the United States, do not differ materially from similar journals, and call for no extended notice. We may note in passing, however, that at Philadelphia he met Fenimore Cooper, who expressed very decided opinions in regard to Daniel Webster. But while resembling other similar accounts, it has the particular merit of having been written by a man of more than ordinary ability and of unusually keen and weighty judgment.

## CHARLES GREY'S DIARY; JANUARY-APRIL, 1839.

This diary, kept by Colonel the Hon. Charles Grey, while stationed at Lacadie, near Montreal, in the year 1839, contains, as might be expected, many interesting references to current events, which are here noted in the order in which they occur; and may be said to supplement Charles Buller's and Lady Durham's accounts of the critical year 1838. Certain allusions to contemporary literature are also included in this record, where they are deemed of sufficient importance.

January 4. Notes reports of threatened invasion by refugees, etc. Despatches sent to U. S. general at Plattsburg. The Governor (Sir J. Colborne) does not, however, appear to attach much importance to the rumours.

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January 7. Notes that "Lord Durham's proclamation on resigning the government [of Canada has been] universally condemned at home." [Cf. Buller and Lady Durham's Journal, *ad rem.*]

January 12. Notes that the "news of the suppression of the Rebellion appears to have been received [in England] at the same time as the accounts of the Outbreak":—a curious commentary on the uncertainty of communications at that early stage of steam transport.

Under the same date, the writer, with the candour of a near relative, severely criticizes Lord Durham's answers to the addresses presented to him, and adds that his lordship's conduct tends to "get the Ministers out of the scrape into which they have got by disallowing his Ordinances.

Again, under the same date—the whole entry is of more than ordinary interest—he refers to Sir John Colborne's appointment as Governor General, and to the latter's indifference to newspaper criticism.

January 18. Account of the execution of certain rebels. Refers to Haliburton's "Sam Slick," and to Lockhart's Life of Scott. To the latter, and to Scott's works, he returns at frequent intervals throughout the diary.

January 21. Notes, *inter alia*, that the previous day's report of refugees coming in has been contradicted. Has attended the court martial appointed to try 'Hindonlang,' (Hindelang) a French "brigadier of the patriot army" and gives details of the trial and defence.

The entries for January 29, February 4 and 8 contain references to frontier troubles, etc.; also to Lord Durham; to Papineau's *amis*, etc., concerning which last he writes to his father, Lord Grey.

The next few entries also contain allusion to frontier disputes, the Maine boundary—a subject dealt with, at large, throughout the diary—American hostility, etc. He refers, under date of February 21, to Lord Durham's Report, remarking that "England thinks of nothing but Home Politicks." In the same entry, he criticizes Lord Howick's unwillingness to risk offending the United States, and notes that Sir John Colborne's course in suspending the judges, etc., has been highly approved by the Home Government.

The entry dated February 24 may be quoted almost verbatim. "Howick considers the union of the Provinces *out of the question*—I differ from him *in toto*—thinking it the *only* way out of the scrape." Lord Howick, he proceeds, proposes the extension of the Act of '38, suspending the constitution; the writer doubts if the British Party would consent. He adds that he has written to Lord Grey, Lord Howick and Lord Durham to this effect.

March 3. Refers to Lord Durham's recommendation of *immediate* Legislative union of the Provinces; also, to the latter's recommendation of the *ultimate* Union of all N. A. Provinces. In an allusion to home politics, he expresses the hope that "H" (Lord Howick), then in the War Office, will not go to the Colonial office, which may be taken as another instance of brotherly candour.

Various other entries deal with matters of interest, but these notes may close with the entry dated March 22, wherein the writer says that the resolutions of a meeting at Missisquoi Bay confirm his report home that the "British party" would not acquiesce longer in the suspension of the Constitution. They desire, he adds, the "*reunion* of the Provinces;" he concludes his diary by stating that he has sent the resolutions in question to his "Brother in England," meaning, presumably, Lord Howick.



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## DIARY OF COLONEL THE HON. CHARLES GREY, JUNE AND JULY, 1841.

(Montreal).

Chiefly an account of a riding and driving excursion through the Eastern Townships, interesting as a picture of conditions as they appeared to an English traveller in the year 1841. Certain references have, however, been noted, and are here given.

Under date of June 6, mention is made of Plattsburg Barrack Hill as "the position which frightened Sir G. Prevost;" an expression which probably reflects the professional view of Sir George Prevost's failure to attack Plattsburg.

Under the same date there is a reference to home politics and the defeat of the ministry.

Under date of June 17, the writer mentions having read certain "most illiberal & ill-written Political articles from Blackwood," but does not further specify them.

There is a reference to home politics under date of June 18, and, under June 23, the writer quotes, at some length, a letter from Lord Grey on the subject of the government threat of dissolution, which is particularly worth noting. Except for one other reference to home politics and to the taking of the Canton forts, the remainder of the diary is of purely personal interest.

## ELGIN-GREY CORRESPONDENCE.

His Excellency Lord Grey has kindly loaned to the Archives several volumes of the above private correspondence. An estimate may be formed of its value and interest from the summary of the two volumes here published, which is intended to serve as a key to the series of letters sent by the Earl of Elgin and Kincardine to the third Earl Grey (his uncle by marriage), then Secretary of State for the Colonies, during the former's term of office as Governor General of Canada. The period covered by the correspondence in question was an extremely critical one in the history of Canada. A change of ministry, the conflicting interests of the United Provinces, and their relations with the Mother Country, the natural growth and development of responsible government, were among the vitally important questions with which Lord Elgin had to deal. His attitude towards each and every one of them is sketched, clearly and in detail, by his own hand, in the following letters. The general result of his policy is summed up as follows by a contemporary writer, in the Toronto "Globe" of March, 1848:

"The British Crown and the American Colonies owe a deep debt of gratitude to the noble Lord. He has healed the rankling wounds of the last ten years, and laid the foundation of a fame which, we trust, will steadily increase in lustre till the close of his administration."

## ELGIN-GREY CORRESPONDENCE. VOL. I.

1847,  
Feb. 2.

His first effort entirely successful. His address has given general satisfaction. Has done what he could to "raise Canadian Politics from the dirt." *Re* investment of Clergy Reserve funds, and deferment of sinking-fund payments.

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- 1847,  
Feb. 24. [Marked "Secret."] Gives list of his ministers. Is willing to meet Assembly at once, but ministers unwilling. French should have "a fair opportunity of entering the Ministry." *Re* Immigration and the "land and labor question." Hopes Lord Grey will approve of his ministerial proceedings. Speaks of the "unnatural alliance between the Baldwin and French factions."
- French and Ministry.
- Feb. 8. *Secret Memorandum.* Colonel Bruce's report of Draper's proposals. Details of same.
- Feb. 9, 1847. Has sent for D. Details of conversation: *re* appointment of Legislative Councillors, and of Caron as speaker of Legislative Council. Sir A. Macnab's position. Proposed measures *re* Tariff, Post office, etc. Is ready to meet Legislature in March.
- Appointments to Legislative Council.
- Feb. 10. Transcribes confidential memo. from D *re* appointments to Legislative Council: names submitted. Same subjects as above referred to. Reasons for placing Sir A. Macnab in the Upper House: for delay in assembling Legislature.
- Feb. 13. States objections to certain of D's proposals: also to suggested course in regard to Caron: fears to appear as a partizan Governor. D's inability to conciliate French party. Offers alternative: to meet Parliament at once, or to allow Government to enter into negotiation with French party. D. prefers latter course.
- Feb. 14. Feb. 14. Receives note from D. *re* "Canadian Party." Extract of a letter from Toronto *re* attitude of French Canadians, etc.
- Feb. 19. Feb. 19. Members of Council willing to admit French party "on reasonable and fair terms to office."
- Feb. 23. Feb. 23. Sends confidential memo. to M<sup>r</sup> Morin: expresses wish to give every consideration to French section of inhabitants: suggested arrangement. Submitted to Executive Council before being sent. M<sup>r</sup> Morin's acknowledgement.
- Offer to M. Morin.
- March 27. [Letter.] Encloses continuation of memo. Quebec French are not pleased at the rejection of his proposals. M<sup>r</sup> Morin's reasons held to be untenable. Division of French into parties corresponding with those of U. C. necessary for proper government of United Canada. Conservative Government hitherto synonymous with a government of Upper Canadians, intolerable to French, and a Radical government with a government of French, no less hateful to British. Considers D the ablest of the ministers. Will give them every constitutional support, but will do nothing to prevent his acting with the opposite party, should it become necessary to do so.
- Evils of "solid" French vote need of division on party lines. Radical jealousies.
- Secret Memo. Feb. 27. Letter received from M<sup>r</sup> Morin, who claims that his views are shared by those French Canadians to whom H. E. refers: that his entrance into the existing Executive Council, or the entrance of any others in like circumstances, would not have the effect desired by H. E. Asserts that French Canadians have no confidence in existing administration. States objections to proposed coalition: to a merely racial addition to Executive Council. Governor notes that "M. M. studiously avoids committing his friends."
- Mr. Morin's views.
- Objections to proposals.
- March 11. March 11. Reasons for not submitting his memo to Lafontaine. Refers it to M. Taché, to be shewn to leading French Canadians; explains reasons for doing so. French Canadians not disposed to an alliance with existing ministry. Has asked Council for programme of proposed arrangements.
- Memo ref'd to Taché. Council's programme asked for.
- Caron speaker. March 20. Council's reply. Caron to remain speaker. Conditions on which memo. is referred to them. Caron's reply.

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1847.  
April 26.  
French  
demands:  
Why not  
granted.  
Personal  
antipathies  
responsible.  
French  
"coherence"  
an obstacle  
to Staple  
government.  
Racial  
antagonisms.

SECRET  
MEMO.  
Caron and  
Cayley.

Terms and  
conditions.

Not agreed  
to.

April 26.  
Parties and  
principles.

Union.  
Emigration.

Honours.

May 7  
Union of  
Provinces:  
Reasons for  
feeling  
against it.  
Difficulties  
of federal  
union.  
Immigration.  
U. S. restric-  
tions.  
Grants in  
Western  
Canada.  
Quebec and  
Halifax  
Railway.  
First move  
to be made  
by Provin-  
cial Legis-  
latures.

May 17,  
Cayley-  
Caron  
correspon-  
dence.  
Draper and  
meeting of  
Parliament.  
Governor's  
attitude.

[Letter.] Memo. shews failure of attempt to bring French into admin-  
istration. Considers their demands, of which he gives details, unreason-  
able; explains why he could not agree to them. Personal antipathies (to  
Smith and Daly) responsible. Gives particulars *re* persons named. Is  
neither surprised nor disappointed at result of negotiations with French.  
Their "coherence" an obstacle to a strong and lasting administration,  
and a cause of British antagonism. States principal object in making  
overtures. No question of principle or of public policy raised by either  
party: the whole discussion purely personal. Responsible government  
the only "party" question, as a result of the conflict between Lord Met-  
calfe and his first ministry. Comment on Lord Sydenham's despatches;  
inevitable consequences of certain principles of government. Appoint-  
ments to the Bench: Rolland made chief justice.

April 12. Caron's statement of what passed between him and Cayley  
*re* admitting French to Executive Council. Governor's memo. com-  
municated to Papineau, in order to give French of Quebec and district  
a chance to express an opinion. Caron's reply handed to Papineau.  
Memo. again sent to Caron, who comes to Montreal. His interview with  
Cayley. Two proposals made to him: (1) Suggested positions for his  
French friends: (2) offer to himself personally—Presidency of Executive  
Council. Caron presents series of written questions as to terms, con-  
ditions, &c. Cayley's answers. Governor considers Caron's conditions  
—Daly's removal and 4 seats out of 7—impossible.

[Letter.] Despatches received. His greatest difficulty—the materials  
with which he has to work. Parties with no principles. Failure of  
French negotiations will conduce to the success of other objects: Union  
of Provinces, emigration, etc. French opposed to both, "as likely to  
swamp them." Regrets withholding honours and decorations from Colon-  
ists: considers them means of drawing closer the bonds which unite an  
Empire.

[Letter, Private.] Explains why he has not written on certain sub-  
jects discussed before he left England. Why, and by whom Union of  
Provinces is opposed. Question of Tariffs. Railways a necessary condi-  
tion of legislative union. Difficulties attending a federal union: favours  
legislative union. Fear of excessive immigration: Canadians observant  
of American restrictions: Toronto society for forwarding immigrants  
to places where their labour is required. Is making grants of uncleared  
land in Western Canada; conditions of settlement, leases, sales, Ameri-  
can methods, etc. Recommends expenditure of Imperial funds on Que-  
bec and Halifax Railway: union of Provinces "hopeless without." Pro-  
vincial Legislatures must make first move.

[Letter: Secret.] Transmits closing papers of Cayley-Caron corres-  
pondence. Prospects of administration brighter. Macdonald (J. A.) to  
be Receiver General. Draper notified that he must face Parliament or  
resign. Governor's success not dependant on any Provincial administra-



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- 1847,  
Mandamus  
for Macnab.  
Secret memo.  
Cayley-  
Caron letters.
- tion: need of shewing confidence in loyalty of all parties: has no fear that change of administration will weaken his influence. Asks mandamus for Sir A. Macnab.
- April 9. Caron [French]: Wishes to know if Smith's elevation to the Bench is, or is not, a *sinè qua non* of the proposed arrangement?
- April 10. Cayley: Replies to above in the affirmative.
- April 14. Caron, Memorandum. Terms and conditions of acceptance of offer; *re* Smith and Daly.
- April: Cayley replies *seriatim* to above: gives "a final negative to the demands advanced by Mr Caron."
- Demands  
not agreed  
to.  
Rejoinder,  
Daly,  
Regrets.  
May 27.
- May 6. Caron's rejoinder: matter turns on Daly. Regrets failure of negotiation.
- [Letter, Private.] Approves of increased tax on foreigners. Public mind occupied by personal squabbles. Opposition likely to take up free trade: local conflicts give Governor his opportunity. General contentment tends to selfishness and indifference to higher aims of statesmanship. Disadvantages of small legislatures. Recent acquisition of responsible government. Administration supposed to have majority in Assembly; but opposition strong and united. Advantage of possessing French vote. Strictures on Mr Draper's conduct. His own course clear. What he expects from his ministers. Necessary changes of government, and attitude of governor. Regrets difficulties in connexion with Quebec & Halifax Rv. Its bearing on Irish emigration.
- Governor's  
opportunity.
- Assembly  
and respon-  
sible govern-  
ment.  
French vote.  
Q. and H.  
Railway.  
Irish  
emigration.
- June 13.  
Responsible  
govt.
- [Letter.] Meeting of Parliament: Sir A. Macnab speaker of the Assembly: address and amendments. Responsible government. Prospects of Session. Is credited with acting constitutionally. Draper going to England. Can give a good deal of information, but not always reliable. Large immigration, and sanctioning of a considerable outlay to relieve necessities. Encloses copies of Minutes of Legislative Assembly and of the address and amendments.
- June 28.  
Neilson and  
French re-  
presentation  
in Govt.  
Governor  
and parties.
- [Letter: Private & Confidential.] Matters going smoothly in political world: details of parliamentary proceedings. Encloses newspaper appreciation (Toronto Globe). Neilson's resolutions *re* French representation in administration: believed to be intended to throw discredit on responsible government. Discussions in both Houses satisfactory to governor personally. His task by no means an easy one. British opposition easier to deal with than French. Appeals made to "nationality." Is transmitting address of Assembly *re* immigration and Imperial assistance. *Re* appointment of Judges.
- Assembly  
and  
immigration.
- July 13.  
Governor and  
responsible  
govt.  
Toronto  
University  
Endowment  
Immigration  
and Politics
- [Letter: Private & Confidential.] Is glad Lord Grey approves his views *re* position of Governor General. Need of further definition of Governor's functions under amended colonial constitution. Parliamentary proceedings: Toronto University: proposed division of endowment. Immigration; its bearings on political issues. Irish landlords held responsible. General belief that England must make good expenses entailed by sickness, etc. Difficulties of his own position. Praises colonists, nuns,

- etc., for devotion, forbearance & good feeling. Situation more & more alarming: panic spreading to Upper Province.
1847.  
July 27.  
P. E. I. and  
Responsible  
Govt.  
Prorogation.  
Aug. 13.  
Immigration.  
Restriction.  
U. S. and  
Province  
compared.  
P. E. I. and  
Responsible  
Govt.  
Red River  
and H. B. Co.  
Aug. 13.  
Aug. 29.  
Sept. 27.  
Quebec  
Local  
autonomy.  
Oct. 17.  
Niagara Falls  
Oct. 29.  
Montreal,  
Sept. 14.  
P. E. I.  
Constitution.  
An oligarchy  
of councillors.  
Immigration.  
Nov. 12.  
Dissolution  
of Assembly.  
Dec. 9.  
Dissolution.  
Immigrants  
and Public  
Works.  
Dec. 24.  
Papineau's  
manifesto.  
Province and  
restriction of  
immigration.
- [Letter: Confidential.] Suggests knighthood or C. B. for Draper. Is sending his brother Robert to England. Question of responsible government in Prince Edward Island. Prorogation of parliament; is satisfied with the results of session.
- [Letter: Confidential.] *Re* need of canteen in relieving immigrants. Question of Provincial contribution: explains unusual circumstances: right of colony to restrict pauper immigration or else to compensation. Need of large expenditure to meet situation arising from arrival of diseased persons in large numbers, and destitution caused by death. Reasons why cost should be borne by Imperial Government. Refers to U. S. conditions, restrictions, etc. Comparison between U. S. and Province unfavourable to Mother Country. Death of Vicar General and illness of Bp. of Montreal. Visit of Lt. Gov. of Prince Edward Island in connexion with responsible government. Colonel Crofton and complaints against Hudson's Bay Company. Is on his way to England. Question of removal of troops. Resignation of Major Campbell, civil secretary.
- [Letter.] Introducing Mr Forsyth to Lord Grey.
- [Letter: Private.] Personal matters. Has suggested meeting of commissioners from Nova Scotia, New Brunswick and Prince Edward's Island on Post Office question. Opposition to Lt. Governor of P.E.I.
- [Letter: Private.] Encloses article from "the Pilot, the Montreal liberal Paper, shewing how little the people of this Province are disposed to tolerate any interference with their local affairs."
- [Letter.] Account of tour in Western Canada. Nova Scotia politics and Post Office arrangements.
- [Letter: Private and Confidential.] Personal matters: his appointment, salary, etc. Encloses leading article from Montreal Herald of Oct. 29: favourable appreciation of his administration as governor general.
- [Letter: Private.] Account of interview with Lt. Gov'r of P. E. I.—[Sir H. Huntley] *re* modification in constitution. Difficulty of getting reliable information. His impression of P. E. I. conditions: "ruled by an oligarchy of councillors." Reflections on various possible forms of colonial government. P. E. I. and responsible government. Suggests possibility of Sir H. Huntley's retirement. Immigration question becoming more and more complicated. Exhaustion of Provincial funds.
- [Letter: Private.] Death of mayor of Montreal, from ship fever. Encloses newspaper comments on immigration and treatment of immigrants. Ministers thinking of dissolution during winter; has no objection to measure. Encloses manifesto of French opposition.
- [Letter: Private.] Dissolution of parliament. Has acted on advice of his Council. Does not think there will be much change in strength of parties. *Re* employment of immigrants on public works: Province unable to provide necessary funds.
- [Letter: Private.] Thinks opposition likely to win, by small majority. Encloses Revue Canadienne, with Papineau's manifesto: comments. French liberals disconcerted at tone of address. Difficulty of reducing immigration expenditure. Great Britain bound to make good Provincial outlay for current year. *Re* enactment of immigration laws by Province. Question complicated by political issues.



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Vol. II., 1848.

1848.

Jan. 7.  
Montreal,  
Papineau and  
French  
Press.  
Settlement  
of Newcastle  
Dist.

[Letter: Private.] Ministerial prospects: their losses in the general election in Upper and Lower Canada. Papineau elected by acclamation. Attitude of French press towards his extreme views & responsible government. Thinks approaching session likely to be an interesting one. Is getting information *re* settlement of Newcastle district.

Jan. 22.  
Defeat of  
ministry.  
Baldwin and  
Lafontaine.  
Major  
Campbell's  
claims.  
Stronger  
govt.  
probable.  
Papineau and  
responsible  
gov't.  
Lafontaine,

[Letter: Private.] Defeat of ministers who will tender resignaiton in a few days. Will call in Lafontaine, Baldwin, etc. Expects to encounter difficulties. *Re* position of Daly: Major Campbell's resignation, begs Lord Grey to take his case into consideration: his claims. Change of government will defer immigration legislation. Has a chance of forming a stronger government. Papineau's return to public life: his dislike of Lord John Russell, responsible gov't, and of Great Britain. Attitude of "British" liberals. Conflicting estimates of British institutions: Lafontaine's position.

Downing St.  
and Canadian  
appointments.

Reply to confidential despatch *re* appointment to offices in Canada. Advises Lord Grey to meddle as little as possible. Impossibility of effectual control: responsibility should rest upon Provincial Ministry.

Feb. 5.

Despatches received. Parliament summoned for 25<sup>th</sup> February.

Feb. 5.  
Ministers to  
meet Parlt.

[Private.] Ministers have resolved to meet Parliament. Hopes to pass immigration bill before forming new ministry. Will not assent to nominations made by retiring Council. Province about to pass through interesting crisis. Advantages of his attitude of neutrality: system of government likely to benefit from coming trial. "Britain and British sentiments have no hold whatsoever on the affections of certain classes of the inhabitants of this Province. Powerful influences are...dragging it towards the U. S." Independent attitude best way "to bring the Yankees to reasonable terms." Publication of Lord Grey's despatches *re* Responsible Government & Emigration. Effect of former on Papineau. Encloses note of claims against the Province.

Anti-British  
and pro U.S.  
sentiment.  
Despatch  
on Resp.  
Gov't.  
Effect on  
Papineau.

March 2.  
Ministers  
and  
Parliament.  
Province  
and cost of  
immigration.  
Anomalous  
position.  
Need of  
caution.  
Is in favour  
of autonomy.  
Hope of  
Provincial }  
legislation.  
Speakership.  
Papineau,  
Baldwin and  
amendment  
to Address.

[Letter: Private.] Meeting of Parliament: Ministers meet House before retiring. Course attended with inconvenience and difficulty. His own task by no means easy. Situation unfavourable to really important interests. Prospect appears hopeful Lord Grey's argument *re* Province & cost of immigration dangerous in present temper of men's minds. Canada's position most anomalous: a question of "positive preferences and hopes." Emphasizes need of caution. Lord Grey's advice open to popular suspicion: B. N. A. Colonies "should be left as much as possible to themselves to take measures for the prevention of diseased immigration." Prospect of Provincial legislation on the subject. Sir A. Macnab defeated by Morin in contest for Speakership. Paragraph in Governor's Speech: views of Papineau and Baldwin; latter prevail. Encloses copy of anonymous letter from the States: con-

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- 1848, tents shew accurate knowledge of conditions. Hopes to keep Papineau "at the head of a factious minority."
- March 17. [Letter: Private.] Estimate of Papineau's character; speaks of him as a dangerous man with much influence among the French Canadians. Estimate of Papineau. Parliamentary campaign has not opened favourably for him. State of affairs the result of Governor's course of policy. Public men convinced of his impartiality. A departure from his inherited views. Formation of Baldwin-Lafontaine ministry. Omission of Sullivan's name explained. His advice to ministers. Sullivan's name included. His own situation improved by change of administration: stronger than former Gov<sup>t</sup>. Alleged claims of former on Governor: their relations with Lord Metcalfe; Draper's arrogant assertion of rights of ministers. His reasons for making these observations. New Government and immigration. Presses his views *re* exemption of Province from burden of cost.
- March 27. [Letter: Private.] *Re* situation of British ministry; of Europe, &c. If Gov<sup>t</sup>. out, new Colonial Minister should be shewn his private letters to Lord Grey.
- March 27. [Letter: Private.] Is glad ministry was arranged before receipt of news of French revolution of '48. N. Y. Herald on annexation of Canada. U. S., France, and annexation. Cuba and British West Indies. Reasons for prorogation of Parliament. His attitude towards constitutional government: importance of popular satisfaction. Criticism of "Spectator" article of Feb. 19. Encloses extract from Toronto "Globe" in praise of his administration.
- London "Spectator" and Toronto "Globe" on Constitutional gov<sup>t</sup> in Canada.
- April 9. [Letter: Private.] Thinks English politicians are beginning to reckon Canada "a bad bargain at any price." Country has passed satisfactorily through a crisis: Canadians generally contented. British tariff and navigation laws form plausible excuse for separation as beneficial to trade.
- Canada and England. Navigation laws.
- April 26. [Letter: Private.] *Re* Military defence of Canada. Defence and annexation. Province should bear some part of cost of its protection: policy of total relief injurious to Colonies themselves. British official indifference: no time for experiments. Union of Provinces effected "by arbitrary means." Irish & French rebellions reasons for proceeding cautiously.
- Defence and annexation.
- Real motives of union of provinces. Papineau and Irish. Adds that: "It is from £20 to millions in Townships.
- French colonization.
- May 4. [Letter: Private.] Military fears of Irish & French disturbance. Encloses copy of letter to Sir B. D'Urban. Council acted with good sense and propriety." Papineau unsupported by influential French and Irish. Meeting indefinitely postponed. Considers these facts important. U. S. attempts to stir up Irish against England. Peaceable issue will be in favour of constitutional principles of Gov<sup>t</sup>. Sends presentment of Montreal Grand Jury, advertng to "the singularly tranquil and contented condition of the Province." Repeal of Union Act restrictions on use of
- Praises Council.
- Papineau disappointed.
- Important facts.
- Montreal Grand Jury and tranquil state of country.
- Union Act and use of French.

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- 1848,  
Means of  
retaining  
French  
loyalty.  
Reciprocity:  
Terms  
Papineau,  
Lafontaine,  
"Herald".
- French language. Is "deeply convinced of the impolicy of all such attempts to denationalize the French," which tend to "*americanize*," not to "*anglicize* the French inhabitants of the Province." Advocates reciprocity, in farm products, between Canada and U. S. Measure favoured by Baldwin. Suggests special treaty: U. S. and navigation of St. Lawrence. Encloses newspaper (Conservative "Herald") with articles by Papineau & Lafontaine, with paper's comment. Adds that: "It is from the Irish not the French that we have most to dread at present."
- May 10.
- [Letter: Private.] Sends list of administration classified according to national origin. Monster meeting of Irish sympathizers: violent speeches. Breach between Governor's advisers and Papineau: latter "ready for anything to make mischief."
- May 18.  
Papineau,  
Irish, and  
Ministers.
- [Letter: Private.] Papineau's meeting at Quebec: topics. Sends copy of his attack on ministers. Fears trouble from U. S. secret societies. Indifference of certain classes in regard to British connexion. Criticizes military and naval appointments on ground of extreme age of commanding officers. Contrasts this with U. S. practice. Danger of U. S. rivalry.
- May 23.
- [Letter: Private.] *Re* open breach between Papineau and French Ministerial papers. Canada tranquil because satisfied with her institutions. Changes of trade legislation, between 1843 and 1846, and their effects on property. "Felt to be a real hardship." Recommends reciprocity with U. S. and competition in St. Lawrence freights. England's interest in the St. Lawrence canals. *Re* amendments to Immigration law.
- Trade  
legislation,  
1843, 1846.  
Reciprocity.
- Immigration.
- Thinks England should bear some part of cost of Colonial Empire until completion of Imperial Federation.
- Imperial  
federation.
- June 1.  
Navigation  
laws.  
Use of  
French.
- June 6.
- [Letter: Private.] Anxious for decision *re* Navigation laws. Importance of removing restrictions on use of French.
- Papineau and  
Lafontaine.
- Navigation  
laws.  
Zolloerein  
Imperial  
Federation,
- June 15.  
Navigation  
laws.  
Use of  
French.  
Emigration  
Lafontaine  
and Papineau.
- June 21.
- [Letter: Private.] Nova Scotia deputation to Governor *re* inter-provincial railway, etc. Complain of want of British feeling in Canada and New Brunswick. Split between Papineau and Lafontaine: sends copy of "L'Avenir" of May 24, 1848, containing a manifesto by former. Approves of Navigation Laws. His views on Free Trade, an Empire zollverein, and Imperial Federation. Colonies should profit by their contiguity to the States. Foresees possibility of reciprocity ending in annexation. Discontent only among commercial classes.
- June 15.  
Navigation  
laws.  
Use of  
French.  
Emigration  
Lafontaine  
and Papineau.
- June 21.
- [Letter: Private.] Refers to rumours that Lords may throw out navigation laws. Has written a despatch which Lord Grey can use. Is anxious for removal of restrictions on use of French. Emigration & Wakefield theories of settlement: Gov't. well disposed: farm settlements best safeguard against annexation. Lafontaine's victory over Papineau. Annexation tendencies commercial rather than political.
- June 29.  
Appears to  
think  
separation  
inevitable.  
Clergy:  
Colonization:  
Migration  
to U. S.:  
Papineau.  
His own  
course.
- [Letter: Private.] Is going to Grosse Isle to see what is going on at the Quarantine Station.
- [Letter: Private.] Refers to two circumstances which might "if there were room for hope respecting the future of Canada, tend to inspire it." Gives account of colonization movement, intended to arrest emigration, "annually in thousands," of French Canadians to the States. Papineau's attempt to use association as a weapon against "selfish policy



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1848,  
Favours  
settlement:  
and encour-  
agement of  
"national  
sentiment"  
of French  
Canadians.  
Encloses  
Bishop's  
Pastoral.  
DeSala-  
berry's ap-  
pointment.

of Great Britain." Deputation waits on Governor: reasons for course taken by latter. Insists on benefits, to Canada and to the Empire, of agricultural settlement: French national sentiment "the best remaining security against annexation to the States." Moral: "Fill up the frontier country with French." Must be done quickly. Could not afford to lose opportunity. Will send official correspondence and encloses copy of Bishop's pastoral: notes change of tone. DeSalaberry Deputy Adjutant General of Lower Canada in succession to Taché: shews improved feeling on Lafontaine's part.

July 5.  
Sullivan:  
Colonization:  
Public  
Works.  
Reciprocity  
and  
American  
enterprise  
in Canada.

[Letter: Private.] Gives an account of Mr Sullivan's views on the principles that should govern colonization and public works; on expenditure of public moneys: does not entirely agree with them, but conclusive as to any immediate aid from Provincial funds. Believes reciprocity will attract American enterprise to Canada: anticipates good results: probable effect on immigration. Complaint from Toronto *re* immigration and increased Gov't aid. Encloses placard of Mitchel (Irish) meeting.

July 13.  
Irish  
Americans.  
Immigration.

[Letter: Private.] Reasons for fearing an American-Irish rebellion in Canada. Assertions *re* Commissariat funds and Immigration expenditure. Will enquire further into it.

July 18.  
Irish  
American  
plans for  
rebellion in  
Ireland.

[Letter: Private.] Forwards information received from French opposition member *re* Irish American plans for rebellion in Ireland and attack on Canada. Meeting held in Montreal.

July 18.

[Letter: Private.] Purely personal. Wishes to sit in House of Lords as Baron Elgin.

July 25.  
P. E. I. and  
responsible  
government,  
etc.

[Confidential.] Enclosing copies of private letters which have passed between Sir Donald Campbell and himself. Thinks a visit from him to P. E. I. uncalled for at present. [Copies follow: *re* responsible government and other matters relating to Prince Edward Island.]

Aug. 2.

Military  
Corps.

[Letter: Private.] Account of visit to college at St. Hyacinthe. Encloses copy of address. Also, article on reciprocity, from U. S. newspaper. Approves of principles advocated. *Re* raising local military corps. Annexation tendencies and need of caution. Canada's British connexion and risk of war with U. S. "Colonial self-defence" inopportune at present.

Aug. 10.

Emigration.

[Letter: Private.] Montreal Board of Trade and Navigation Laws. His own attitude: loyal spirit of Provincial Parlt. Sullivan's views on emigration. High estimate of Sullivan. Possible trouble from movements in New York State.

Aug. 16.  
Causes for  
anxiety.  
Irish vote  
in U. S.  
"Armed  
neutrality"  
of French  
Canadians.

[Letter: Private.] Causes for anxiety: Navigation laws: possible failure of reciprocity bill in Congress, and menaces of sympathizers in U.S. Bad feeling in U.S. towards Canada and England. Influence of Irish vote in U.S. Sullivan's poor opinion of American conditions. Fears of Irish attack from U.S. in coming winter. Position of French Canadians. "as regards England and America is that of an armed neutrality." Mercantile classes "disgusted and lukewarm..if not dis-

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- 1848,  
Merchants  
blame  
Navigation  
Laws for  
their mis-  
fortunes.
- affected:" misfortunes attributed to British navigation laws. Annexation tendencies, not easily understood in England. His intentions in case of external attack and internal commotions. Has received Lord Grey's letter, and will discuss matters with Sullivan.
- Aug. 24.  
Reciprocity.
- [Letter: Private.] Dissatisfaction at delay in repeal of navigation laws. Reciprocity not passed by U. S. Congress. Sir W. Molesworth speech and Papineau's views. Asked to extend amnesty to all engaged in Rebellion of 1837 and 1838: is greatly in favour of doing so. Is sending an official communication on the subject. Dr. Nelson and Mackenzie. General Act of Amnesty preferable to special acts of favour. Latter unpopular in Upper Canada. Reasons for speedy decision. LaFontaine's interest in the matter: his struggle with Papineau: newspaper warfare. Is sending papers. Fears he will lose Sullivan; good men unwilling to remain in political life. Papineau, "L'Avenir" and Molesworth's views.
- 1837  
Rebellion:  
Act of  
Amnesty.  
Nelson and  
Mackenzie  
Lafontaine  
amnesty,  
and Papineau.
- Aug. 30.
- [Letter: Private.] Hope to send Sullivan's memo. on immigration in next letter. Has received letters from New York which make him anxious as to designs of "Yankee Irish." Has sent for D'Urban to confer with him on the subject.
- Sept. 7.
- [Letter: Private.] Enclosing newspaper cuttings shewing how he stands with the "outs;" the opponents of his government.
- Sept. 13.  
Emigration.
- [Letter: Private.] Sends him Sullivan's paper on emigration. Throws light on economical position of Province. Sullivan's views and Wakefield theories: objections to military system of colonization. Sullivan's promotion to the Bench: estimate of his probable successor, Merritt: Cobdenite, favours Reciprocity; his views on annexation. Likely to favour systematic colonization. Recommends Sullivan for C.B. Encloses newspaper.
- Sullivan,  
Wakefield  
theories,  
Lord Grey.  
Sullivan's  
successor.
- Sept. 21.
- [Letter: Private.] *Re* sport in England and in U.S. Possibility of defending Province against American attack ["a red Fox hunt"]; bulk of population, French and English, heartily loyal. Is very anxious to obtain warrants for legislative councillors. Parliament to meet in November. *Re* usury laws.
- Sept. 27.  
Estimate of  
Macdonald.
- [Letter: Private.] Visit of Sir E. Head. Recommends "a certain Mr John A. Macdonald" to Lord Grey's notice. Belongs to "section of Conservatives who are becoming reasonable." Knotty questions to be brought up in Council; boundary to be settled first. Extracts of Lord Grey's despatches sent down to House: encloses N. Y. paper *re* underpayment of high U. S. officials.
- Boundary.  
Clear grits  
and Lord  
Grey's des-  
patches.
- Oct. 11.  
Governor's  
salary.  
Representa-  
tion.  
Seigneurial  
tenure.  
Rebellion  
losses.
- [Letter: Private.] Date of Parliament. Question of Governor's salary, and of its assumption by home government. Measures for increased representation in Assembly: approves of it: equality between Provinces to be maintained. Commutation of seigniorial tenure; payment of rebellion losses, &c.
- Oct. 19.  
Tariff.
- [Letter: Private.] Parliament likely to meet in January. Need of settling question of Post Office. Hopes to get tariff modified. M<sup>r</sup>



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- 1848, Merritt's plans for increasing prosperity of Province. Mercantile classes discontented.
- Oct. 25. [Letter: Private.] British unwillingness to make sacrifices for the preservation of the colonies: Lord Grey's sentiments. Danger arising from impossibility of obtaining money "on any terms."  
Britain and colonies.  
Provincial loans.
- Nov. 16. [Letter: Private.] Difficulty of obtaining satisfactory report on immigration. Merritt more in accord with Lord Grey's views than Sullivan:  
Immigration. some points in detail. Further reference to money difficulties. Effects of legislation, 1843 and 1846, on trade of Canada. Transfer of prosperity to U.S. Blames "the inconsistency of Imperial legislation." Merchants in favour of annexation. Is astonished at the peaceful condition of the Province. Need of caution in emigration plans, etc., Merritt's plans to be submitted to Lord Grey. Is very anxious about the Post Office: Sir E. Head's views, and those of New Brunswick.
- Scarcity of money.  
Corn laws.  
Effect on trade.
- Nov. 22. [Letter: Private.] Sends him newspaper with North American Review article on Canadian prospects. Present situation different to that of Thirteen Colonies. Sends him article from the "Pilot on usury laws and Responsible Govt as a commentary." Does not agree with writer. Report as to his leaving Canada ("Gazette" Nov. 22, 1848.)  
U. S. and Canada.  
Usury laws and Resp. Govt.
- Nov. 30 [Letter: Private.] Long and important review of Canadian conditions; Responsible government; Governor's position; his own observations and experiences; the Irish movement, etc. Free Trade and possible separation.
- Free Trade.
- Dec. 6. [Letter: Private.] Detailed reasons why Canada should not be called upon to share cost of military defence: financial conditions unfavourable; special claim of colony. Likely to hasten annexation. Troops only needed for forts & to form nucleus for militia. Thinks Governor's salary should be paid by Home Government.  
Cost of colonial defence.  
Governor's salary.
- Dec. 19. [Letter: Private.] *Re* Quebec and Halifax Railway; is disappointed at attitude of Imperial Govt. Terms of his Council's recommendation. Recurs to question of "a reduction of our military force." Possible, if President Taylor "intends to be peaceable"; if railway were undertaken and the commercial prosperity of the colony restored to "entrust the safekeeping of the Province to the Patriotism of the inhabitants." Encloses minutes of council *re* railway and emigration.  
Quebec and Halifax Ry.  
Reduction of militia force.

## RECEIVED FROM LORD BATHURST.

LORD BATHURST, 1814.

The book bearing the above title contains two letters; one, from General Robinson, on "The Affairs at Plattsburg, 1814;" the other being "Extracts from a letter from Brunswick."

Interesting, and most important as these letters are, they offer few points for actual, verbal quotation. They deserve, rather, to be studied in their entirety, and can only be dealt with here in the briefest and most general manner.

The first, which is dated "Chambly Sept. 22<sup>nd</sup>, 1814," and is addressed to "Dear Merry," is an account, by a general officer who took part in it, of the unsuccessful attack on Plattsburg, in 1814. Entering into full details, and expressing himself with the utmost freedom, he

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throws the whole responsibility of the disgraceful failure upon "the chief," that is, upon Sir George Prevost. The details concerning the naval forces engaged; the complaints of the British officers of want of support, and the unprepared, practically defenceless condition of the American ships, are of the greatest possible interest and importance.

Nor do the "Extracts from a letter from Brunswick," dated August 20, 1814, spare the Governor, Sir George Prevost. The writer, in reviewing the conduct of the campaign, criticizes, most strongly, the employment of generals in any way connected with the country, and lays stress on the fact that Sir George Prevost was born at Albany. He is not less severe on British Admiralty methods; instancing the wholly inexcusable failures to copy the models supplied by captured French and American vessels, and the futile reliance on a mere theoretical superiority of "tonnage and metal." There follow interesting suggestions as how the war should be carried on, in order to gain a real and lasting success, and to avert the menace of American political and commercial rivalry, of an otherwise inevitable conquest of Canada. The war, the writer insists, is merely one of interest on the part of the Americans; this, he claims, furnishes a valid reason for protracting the peace negotiations as long as possible, in order to obtain terms which shall ensure a permanent superiority and advantage. These negotiations, which ought to be held in England, should include the settlement of the New Brunswick boundary; the creation of a neutral, Indian territory—closed to all white settlers—in the Lake Erie region, the Missouri as the western boundary of the United States, and the restoration of Florida to Spain, as having been unjustly and unfairly acquired.

PRIVATE LETTERS TO LORD BATHURST.

1. p. 4.

1807, Letter [unsigned and incomplete.] The writer reports continued violence on the part of the "American Rabble," and on the anti-British newspaper campaign. Is anxious to hear from home, as Americans are fortifying their harbours, and have called in Moreau as adviser. Possibility of discord between Northern and Southern states over French intervention. Risks to which Halifax is exposed, and means of averting them. Proposes capture of American fishing vessels at Gut of Canso on their return from Labrador, etc. Has received despatches from Erskine re American threats of confiscating English money in U. S. funds. New York harbour to be fortified. Advantages of a sudden attack on that port. Monroe ordered to demand his passports if the question of search is not acceded to.

Halifax, N.S.,  
Aug. 13

Moreau.

American fishing fleet.

[Aug. 17.]  
Confiscation.

Question of search.

2. p. 8.

Mr Monroe, U. S. Minister, to Mr Secretary Canning [Copy.] Regrets that H. M. Government is not disposed to enter into an immediate arrangement of all differences with U. S. Government. Refers to a recent incident: "the late Aggression." Gives desired explanation of motives of measures announced in President's proclamation of July 2.

Portland  
Place  
London.  
Sept. 29.

"The late  
"Aggression".

3. p. 17.

[George Berckley] THOUGHTS on WAR between AMERICA and GREAT BRITAIN.

Septem ber.

America's one object: the possession of Canada and Nova Scotia. Ease of attack on Upper Canada; American force available. Importance of Colonial loyalty. Nova Scotia, key to the whole position. Liable to attack in three ways. Comparative smallness of U. S. force capable of

AMERICA.  
Object of  
U. S. con-  
quest of  
Canada and  
Nova Scotia.

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1807.  
Exposed sea  
frontier.  
Negroes pro-  
British.  
Northern  
and  
Southern  
States.

GREAT  
BRITAIN,  
Means of  
defence and  
offence.

1808.  
Bury St.  
St. James's.  
Feb. 5.  
Wheat and  
flour market.  
of Canada.  
Fisheries.  
Need of a  
certain  
market.  
Flour trade.

1812,  
York, U.C.  
May 25,  
Militia.  
Indians.

Edinburgh  
June 26.

Bury S.  
Edmunds.  
June 29.  
Governor  
Desbarres.

Upper  
Grosvenor St.  
Aug. 4.  
Warlike  
Indians.

Rotherhithe  
Aug. 22.  
Proposed  
embargo  
on salt.

Kensington  
Palace.  
Sept. 12.

Downing St.  
Sept. 15.  
Montreal.  
May 14.  
1811.

1813.  
Grosvenor  
St.  
April 21.

making a regular attack. Their exposed sea frontier; defenceless condition of large cities and towns. "Love and fidelity" of Virginia negroes to Great Britain "beyond doubt." Advantages of fomenting jealousies between Northern and Southern States. Possibility of a treaty and a new division of territories.

Great Britain's means of defence and offence. Estimate of Nova Scotia militia. Strength of squadron "absolutely necessary" on the coast.

4. p. 29.

J. Caldwell to Board of Trade. Observations on the Canada Trade. Prosperity of Canada principally dependent on market for wheat, flour, etc. Conditions of shipment *via* St Lawrence. U. S. flour and biscuit trade with N. S. and Nfld. hurtful to the Canadas. Threatened diminution of Nfld. fisheries. Canada's need of a certain and permanent market. Benefits of a favourable market at Quebec. Possibilities of Canadian flour trade.

5. p. 39.

Major General Brock to Lord Liverpool. Reports on readiness of Canadians in event of war: on the militia: on the Six Nations, etc. Reinforcements of U. S. regulars and militia arriving at frontier posts.

6. p. 44.

Ranald Macdonell to Lord Bathurst. Respecting a regiment in North America. Endorsed: . . . "Proposition . . . declined."

7. p. 46.

Sir William Dolbin to Lord Bathurst. *Re* the case of Governor Desbarres. With answer dated Downing St. July 6.

8. p. 50.

Francis Gore [Lt. Gov<sup>r</sup> U. C.] MEMORANDUM "Warlike Tribes of Indians in THE CANADAS." Gives number of warriors as 8,300 "if the Scieux's are brought down."

9. p. 56.

J. Hill to Lord Bathurst. *Re* cutting off the communication between Portugal and America, and preventing the importation of Salt. Would embarrass American trade, and "increase their domestic difficulties."

10. p. 59.

The case of P. Langan and a Tract of Land in Upper Canada.

Duke of Kent to Lord Bathurst: Recommending case to his consideration.

Lord Bathurst to H. R. H. Favourable reply, enclosing information.

Langan to H. R. H. Statement of his case. Followed by extract of his letter to the late General Vesey, and letters of Lords of Treasury authorizing confirmation of grant.

11. p. 74.

Lord Selkirk to Lord Bathurst. *Re* proposed expedition through Hud-

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Hudson's  
Bay  
Expedition.

son's Bay, to create diversion on Western frontier of U. S., and permission to levy men within the United Kingdom.

Horse  
Guards.  
April 27.  
Proposed  
levy.

12. p. 78.

Sir H. Torrens to Mr H. Gouldburn. Returning Lord Selkirk's letter. Commander in Chief sees no objection to proposed levy.

Kensington  
Palace  
Aug. 11.

13. p. 81.

Duke of Kent to Lord Bathurst. Recommending memorial of Town Major Hughes of Montreal to his favourable consideration.

14. p. 84.

1814.  
Canada.  
Aug. 28.

REPORT ON AMERICA. *Re* naval forces on the Lakes; employment of shipwrights, etc.

Naval  
forces on  
lakes.

15. p. 87.

Plattsburg,  
Sept. 11.

OPINIONS on the BATTLE OF PLATTSBURG, 11th Sept. 1814.

(1) By a Staff officer from the Peninsular.

(2) Sir James Yeo's Opinion of the Action of the 11<sup>th</sup> Sept<sup>r</sup>.

16. p. 91.

Vernon  
Place,  
Bloomsbury  
Sq.  
Sept. 15.  
War and  
negotiation  
with U.S.A.  
British  
deserters  
in U. S.  
ships.

Ferdinand Smyth Stuart to Lord Bathurst. "On the present War and Negotiation with the United States of America." *Re* "political circumstances of the present time." War said to be "contrary to the inclinations of the great bulk of the population" (of the U. S.) Proposes forced cession of "such parts of her useless territory as may insure future peace;" with suggested boundaries. British deserters in American frigates: "near  $\frac{3}{4}$ <sup>ths</sup> of these ships are manned with British sailors."

17. p. 100.

No date or  
place indi-  
cated: un-  
signed.

POINTS TO BE INSISTED UPON IN ANY TREATY OF PEACE TO BE ENTERED INTO WITH THE UNITED STATES.

17. p. 104.

Note to U. S.  
Plenipoten-  
taries.

DRAFT OF A NOTE to the AMERICAN PLENIPOTENTIARIES.

18. p. 109.

Kingston,  
Jamaica.  
Nov. 18.  
Naval and  
Military  
observations.  
Louisiana.

J. Graham. "Observations, Naval and Military, for the Benefit of the Commanders of His Britannic Majesty's Forces, destined for the Reduction of Louisiana."

Downing St.  
Nov. 18.  
Sir G.  
Prevost.

19. p. 115.

Lord Bathurst to Regent [Copy.] *Re* charges against Sir G. Prevost in connexion with Battle of Plattsburg.

20. p. 117.

London,  
Nov. 21.  
L.C., N.B.  
and U. S.  
boundaries.

Joseph Bouchette, Surv<sup>r</sup>. Gen<sup>l</sup>, L.C. "OBSERVATIONS and REMARKS relating to the BOUNDARIES between the PROVINCES of LOWER CANADA, NEW BRUNSWICK and the UNITED STATES OF AMERICA."



1815.  
Halifax,  
Feb. 1.  
Canada,  
Sir J.  
Sherbrooke,  
Sir G. Prevost, etc.  
Isle  
Dauphin ( )  
Feb. 24.  
Louisiana

21. p. 120.

Sir G. Murray to Lord Bathurst. *Re* Canadian affairs; relative positions of Sir. J. Sherbrooke and Sir G. Prevost, etc.

22. p. 124.

Maj. Gen. Lambert to Lord Bathurst. Reporting movements of troops under his command in Louisiana.

23. p. 127.

Lord Hill to Lord Bathurst. *Re* "the late expedition to New Orleans."

H.M.S.  
Rosario.  
March 30.  
New  
Orleans  
campaign.

24. p. 129.

Lt. Col. Nicols to Col. Rowley [extract]. *Re* embarkation of troops for Belgium, & possibility of further U. S. hostilities.

Quebec,  
May 27.

25. p. 131.

Sir G. Murray to Lord Bathurst. *Re* his return to England.

Kingston,  
U.C.  
May 30.

26. p. 134.

Lord Melville to Lord Bathurst. *Re* Newfoundland Naval station.

Cowes,  
Oct. 18.

27. p. 137.

Heads of Information for attacking NEW ORLEANS.

No date,  
unsigned.

28. p. 143.

T. Tackle to Lord Bathurst. *Re* cooperation and good will of Indians; expulsion of Americans from Lake Michigan country, etc.; Indian claim to compensation; influence of trading posts; possibility of controlling Indians in warfare; alacrity of U. S. horse militia; advantages of appointing Canadians as officers of Indian tribes, etc. Encloses Extract from the "Address of the President of the United States of America, in the House of Representatives December 3<sup>d</sup> 1793." [*Re* trading posts.]

Chelsea,  
Nov. 24.  
1812,

29. p. 162.

Letters from R. Wilmot to Earl Bathurst.

Sunday.

Has sealed letters to Canada Governors. Sends *lost* Robinson paper, *re* Upper Canada university, and sale of School Reserves. Sends letter complaining of absence of a Chief Justice at Newfoundland.

Friday.

Reports on debate *re* Canada Bill, and projected plan of Union.

Downing St.

Sends Attorney General Robinson's Report, *re* union of Canadian legislatures. Ellice's proposal *re* Upper Canadian claims. Sends Canadian engineer estimates.

30. p. 172.

Lord Liverpool to Lord Bathurst (Private). Agrees with him as to including Indians in treaty of peace. As to boundary, Sackets Harbour, etc.

1814.  
Walmer  
Castle.  
Sept 11.

The same to the same. *Re* tone of American Commissioners' Note. Their attitude in regard to Indians, disaffected subjects, etc. Suggests his consulting Sir Christopher Robinson.

Walmer  
Castle,  
Sept. 30.

The same to the same. *Re* article of treaty in favour of Indians. *Re* British answer to American Note. Encloses Memoranda *re* Louisiana,

Walmer  
Castle  
Oct. 1.

31. p. 184.

SELECTED PAPERS relating to CANADA.

Wellington to Bathurst (*Private and Confidential*). Would have no objection to going to America, should Lord Bathurst think it expedient,

Paris,  
Nov. 4.  
1814,



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Belmont,  
Hants.  
1815.  
Sept. 6.

Noah Freer to Capt. Glen. *Re* Sir G. Prevost's intention of recommending certain Canadian officers for promotion.

Bright-  
helmstone,  
1814.  
Sept. 27.

Duke of York to Lord Bathurst. Congratulations on capture and burning of city of Washington.

1814.

Letters from HENRY GOULBURN to EARL BATHURST. August 9th to December 30th, 1814.

Ghent,  
Aug. 9.

(Private.) Report on conferences with American peace commissioners. Uncertainty *re* Indian boundary. Encloses "Substance of Conference on 9th August."

Ghent,  
Aug. 21.

(Private.) *Re* American disarmament on Lakes; Indian pacification; Indian boundaries, etc.

1814.  
Ghent,  
Aug. 23.

[Private.] *Re* Clay and Bayard's objections to British terms. Have made no impression on writer or on his colleagues.

Ghent,  
Aug. 24.

Enclosing notes received from American plenipotentiaries: further instructions necessary. Question of accepting basis of *uti possidetis*.

Ghent,  
Sept. 2.

*Re* unofficial discussions with American commissioners, etc.

Ghent,  
Sept. 5.

Has small hope of British Note producing change in decision of American plenipotentiaries. U. S. Govt. has no real intention of making peace. *Re* smallness of Lord Hill's force; and Prevost's indisposition to make any attempt: American naval superiority on Lakes. Encloses letter received from Clay.

Ghent,  
Sept. 16.

Does not believe American ministers will consent to the definition of a permanent boundary to the U. S. Indian territory. Does not deem it possible "to conclude a *good peace* now." Clay and Bayard's view *re* position of Canada. *Re* Lake Erie (Plattsburg) court martial, and need of action on Prevost's part.

Ghent,  
Sept. 23.

*Re* English objection to an unsatisfactory peace; falsehood contained in American correspondence: satisfactory intelligence from Canada.

Ghent,  
Sept. 26.

American Note transmitted appears to contain a refusal of the modified proposition *re* Indian pacification. Other matters relating to Indians. *Re* district of Maine between New Brunswick and Quebec.

Ghent,  
Oct. 14.

Sends note just received from American commissioners. They accept the substance of the British article.

Ghent,  
Oct. 21.

Unsatisfactory news from America. Failure to take Baltimore an obstacle to peace on British terms. Question of fisheries held in reserve.

Ghent,  
Nov. 10

Is sending home American draft treaty, with explanatory note, for instructions as to certain parts of it. *Re* Louisiana and Stony Mountain country. Is also sending rough draft of the substance of their project.

Ghent,  
Nov. 14.

No peace with America except on basis of status ante bellum. Probable dispute as to fisheries. Article *re* "Passamaquoddie" islands inadmissible. *Re* Maritime articles. Proposal *re* indemnification for captures "inadmissible on every ground." Question of exchange of islands on Lake Huron or Superior.

Ghent,  
Nov. 25.  
U.S. and  
Fisheries

Will do their utmost to bring the negotiations to a speedy issue. Concurs in Lord Bathurst's opinion "that we do practically admit the Americans to the Fisheries as they enjoyed them before the war." *Re* "Passamaquoddie" islands; difficulty of finding "a proper successor to Sir G. Prevost;" Americans and extirpation of Indians.

Ghent,  
Dec. 1.  
Fisheries  
and  
Mississippi.

British right to navigation of Mississippi and U.S. right to fisheries based on treaty stipulations: point to be referred home. *Re* disputed articles.

1814.  
Dec. 10. *Re* derivation of U. S. rights to fisheries from Treaty of 1783; slave Trade Article; claims for indemnity.
- Dec. 13. *Re* fisheries, Mississippi, exclusion of Americans from Newfoundland, etc.
- Dec. 14. *Re* "Passamaquoddie" islands, fisheries, Mississippi, etc.
- Ghent,  
Dec. 20. *Re* fisheries and Treaty of 1783, Mississippi, etc.
- Ghent,  
Dec. 30. *Re* signing of treaty; period of cessation of hostilities; charges of seducing and selling U. S. negroes, etc.

NOTE. Lord Bathurst has also kindly presented to the Dominion Archives a number of valuable prints relating to the history of Canada and some excellent portraits of the Duke of Richmond.

### THE JAMES EMOTT RECORD BOOK, 1765-68.

(*Series M. Vol. 476f.*)

The writer, a notary public in New York, has transcribed, for the years indicated, certain business transactions with which he was officially connected, such as bills of exchange, accepted or protested, and sworn statements made by various shipmasters. Part one consists of "Transcriptions relating to Acadia or the Acadians;" part II, of "Transcriptions relating to Newfoundland and Canada, with the exception of Acadia."

The first entry is of interest as being the writer's formal protest of a bill of exchange for the sum of "£219, 14 1, N. York Curr<sup>y</sup>," drawn at "St. Croix, Jan<sup>ry</sup> 11<sup>th</sup>, 1766," by John Scott Lawrence and John Cebra.

On page 31 there is an interesting statement made by the master of the sloop Van Dam, as to his having conveyed "a parcel of house frames," to the Mole Cape St. Nicholas (for the use, apparently, of Acadian exiles) "on account of His Most Christian Majesty," and of their delivery to Count d'Estaing, then commanding in French Hispaniola.

The next statement refers to the conveyance of "Twenty six french Neutrals" to the same destination, in 1765, for which service, the shipmaster complains, he "never received one farthing." Other shipmasters, in turn, tell of "house frames" of "french Neutrals," sometimes both, the latter in varying numbers, taken, at different times, to Hispaniola. The book, in fact, consists very largely of a series of such statements, and shews that several hundreds of persons must have left Canada and Acadia during the period immediately following the conquest, for Hispaniola.

The statement at page 24, sworn in "the colony of Connecticut, County of New London," gives the names of "the following Thirty Three french Neutralls." As the list contains, however, no fewer than six Browns\*, and a majority of persons there given as "Frurry,"\*\* it would appear that there must have either been an attempt to Anglicize them, or some error in taking them down.

The "Transcripts relating to Newfoundland and Canada with the exception of Acadia," are chiefly bills of exchange, drawn at St Johns Newfoundland, Harbour Grace, Montreal, etc., but there is an interesting account (pp. 17-22) of the voyage and loss of the Snow Granada "from London in Great Britain bound to Quebec in North America."

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\*Brun and Forest.

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James Emott's Record Book, dry and formal as its contents may at first sight appear, affords, nevertheless, to the judicious reader, as the above account of it indicates, an insight into the manners, business customs, and even into the history of Acadian and Canadian migration during the period immediately succeeding the conquest, that is not without its own share of importance and attractiveness.

REPORT OF MR. LAIDLAW ON PAPERS IN THE PROVINCE  
OF ONTARIO.

## JARVIS—PETERS—HAMILTON PAPERS.

These papers which were found in the possession of the Misses Durand at Queenstown, Ont., and the Misses Tench, Toronto, are of more than ordinary interest and are quite varied in their character.

The most important in the collection is a series of letters and other documents written by Hannah Jarvis, wife of the first secretary of Upper Canada, and her husband Wm. Jarvis, to her father, Rev. S. B. Peters in England and later in the State of New York. These begin with a letter by Hannah Jarvis written on board ship when she and her husband and family were leaving England for Canada, April 13, 1792. This is followed by a Journal or Diary kept by William Jarvis on the voyage across the Atlantic and up the St. Lawrence, closing with their departure from Lachine for Cataragui—April 14th to June 28th, 1792. From Cataragui they went to Newark, then the capital of the Province. From there Mrs. Jarvis kept up a regular correspondence with her father for many years, and in her well-written letters tells much concerning the political affairs of the period and also gives many interesting glimpses of life in the new Capital and later at York when the seat of government was removed thither. In these letters the administrations of Lt.-Governor Simcoe and Administrator Peter Russell come in for some severe criticism, especially the latter, and the action of many other leading public men of the time are dealt with in a very frank and fearless manner. Copies of the important portions of these letters have been made, as the originals have to be returned to their owners. The copies cover about one hundred pages of closely written foolscap.

Another interesting series of papers is in connection with a claim made by the Rev. S. B. Peters to 8,000,000 acres of land—a grant to Jonathan Carver from two chiefs of the Nadowissie Indians. This land was located on the east side of the Mississippi River in the vicinity of St. Anthony's Falls and including the sites on which the cities of St. Paul and Minneapolis now stand. Rev. Peters made arrangements for the purchase of this territory from the heirs of Jonathan Carver, and in time disposed of it to the Mississippi Land Company, conditionally on securing a clear title to the property from the United States government.

The deed from the Nadowissie chiefs was signed at the Great Cave, near St. Anthony's Falls, May 1, 1767, at which time the country was a British possession. Carver applied to have the deed ratified by the British Government, but, before this was done, the Revolutionary War broke out and the Territory passed to the United States. Peters, after negotiating with the Carver heirs applied to have Carver's claim recognized and ratified by the U. S. Congress, but did not succeed. The papers in this collection refer chiefly to the latter application.

Muster Rolls of First Troop of Niagara Light Dragoons, 1812.—Capt. Alexander Hamilton.

Statement of war losses sustained by Alexander Hamilton, at Queenston and Niagara, during the war—1812-15.

Papers *re* Erie and Ontario Railway and Welland Canal—1825-1834.

Rebellion, 1837-8. In connection with this period of Canadian history, there is in this collection a lot of private and confidential correspondence between Alexander Hamilton, Sheriff of Niagara District (acting under instructions from the Government of Upper Canada) and various loyal and trusted persons in all sections of the District. Some of these are of much interest.

Post Office Papers—Correspondence, &c., *re* proposed change in mail route between New York and Upper Canada, from *via* Lewiston, N.Y., and Queenston, U.C., to *via* Buffalo, N.Y., and Niagara Falls or *via* Youngstown N.Y., and Niagara-on-the-Lake.—1828-9.

#### PRINTED PAPERS.

In this collection are also the following printed papers, &c.—*Military*.

An Act to explain, amend and reduce to One Act of Parliament the several laws now in being for the Raising and Training the Militia of this Province—Passed 16<sup>th</sup> March 1808.

Commission appointing Alexander Hamilton Ensign of a company in the First Regiment of Lincoln Militia—Sgd Francis Gore, Lt Governor, August 20, 1810.

List of disabled persons who have heretofore been admitted, and of those also who claim to be admitted, as Militia Pensioners of the Province, on account of wounds received in action, or Disability occasioned by Casualties or Accidents which have occurred on Actual Service in defence of the Province, as far as returns have been received, with the sums due to those who have produced the necessary Certificates and Documents touching their wounds and Disability, and which will be due to others who have produced those documents in part, when they will have furnished them complete, as required by law up to the 31<sup>st</sup> of December, 1816.

"Morning Courier" Supplement, Montreal, December 14, 1837. Containing account of Affairs at Missisquoi Bay, during the Rebellion.

Upper Canada Gazette, Extraordinary, Toronto, Thursday, December 28, 1837—Containing address of Lieut. Governor Sir Isaac Brock, at the opening of the House of Assembly on that date.

Supplements to the Observer (Incomplete). Return of claims for Losses sustained during the late war with the United States of America as awarded by the Commissioners appointed under the Provincial Statute of 4<sup>th</sup> Geo. IV, Chap. IV, on which Twenty Five Per Cent has been ordered to be paid to the undermentioned claimants.

Poster, calling for Volunteers for the Queen's Rangers, a Battalion formed under the auspices of His Excellency Sir F. B. Head, Bart., Lieutenant Governor of the Province of Upper Canada, and commanded by Colonel Samuel P. Jarvis.

Dated

Garrison, Toronto

20<sup>th</sup> December, 1837.

"Telegraph and Advocate" Extra—Lewiston, January 6, 1838—Containing special message of W. L. Marcy, Governor of the State of New



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York, to the Legislature *re* destruction of the Str. Caroline—Dated—Albany, Jan. 2, 1838.

“Patriot” Extra—

Toronto, Thursday, January 4, 1838—Containing correspondence between General Arcularies, Commissary General of the State of New York, with the Hon. Col. A. N. MacNab; also letter of Cap<sup>t</sup> Drew, Commander Royal Navy, to MacNab, giving account of the capture and destruction of the Str. Caroline at Navy Island.

“Reporter” Extra—Dec. 22, 1837. Account of Defeat of Rebels at St. Eustache, Quebec.

“Upper Canada Gazette”—Extraordinary—November 6, 1838—

Proclamation by His Excellency Sir George Arthur, Lieut. Governor of Upper Canada, calling upon loyal citizens to rally in defence of their country.

“Herald” Extra—

November 10 (1838)

Account of the Evacuation of Napierville by the rebels, also engagement at Odeltown.

After District General Order—Toronto, November 19, 1838—Particulars of the attack by the Rebels on the Canadian Shore of the St Lawrence between Prescott and Johnstown, and congratulating the British and Colonial Troops on their gallant stand—

“Upper Canada Gazette”—Extraordinary—November 20<sup>th</sup>, 1838—Accounts of the evacuation of Napierville and capture of Beauharnois.

Militia General Orders—No. 1.

Adjutant Generals Office—Toronto 22<sup>d</sup> November, 1838. Sg<sup>d</sup> Richard Bullock—Adjutant General Militia.

“Upper Canada Gazette”—Extraordinary—November 24<sup>th</sup>, 1838.

Containing correspondence between Lt Col. Dundas, Commandant of the 83<sup>rd</sup> Regiment, at Kingston, and Col. Worth, Commandant of the United States Army at Sackett’s Harbor, and citizens of Oswego, N.Y.

Militia General Order—

Adjutant General’s Office.

Toronto, 24<sup>th</sup> November, 1838—

Correspondence, &c., *re* attack on Prescott by Rebels. Sgd. Richard Bullock, Adjutant General Militia.

## MISCELLANEOUS—PRINTED PAPERS.

Speech of Sir Francis Bond Head, Lt Gov<sup>r</sup> on Proroguing the Provincial Parliament—Toronto April 20, 1836. 2 copies—Large sheets.

Proceedings of Meetings of the Society for Promoting Christian Knowledge held at Niagara—1826.

Report of Board of Directors of the Welland Canal Company—1835.

Notice to Claimants for Damage *re* Welland Canal—1833.

Petition of John Macaulay, chairman of the Quarter Sessions of the Midland District, on behalf of the Magistrates of said District, on the subject of Insane Persons—1835.

Mutual Insurance Bill and Bylaws governing Mutual Insurance Companies, and other papers *re* insurance.



Act of Incorporation of the Niagara and Detroit Rivers Railroad Company—1836—and minutes of meeting held at Sandwich, June 1, 1836, to carry its provisions into effect.

Prospectus of London and Gore Railway.—Hamilton, U. C., August 16<sup>th</sup>, 1836.—Samuel Mills, Secretary.

Notice to stockholders of Erie and Ontario Railroad, *re* paying installments on Stock—Matthew Ottley, Secretary. Dated Stamford 16<sup>th</sup> November, 1838.

Minutes of Meetings of Niagara Board of Health—1832.

Orders passed in Quarter Sessions, at Niagara, March, 1834.

W. H. MERRITT,

Chairman.

CHARLES RICHARDSON,

Clerk of the Peace

District of Niagara.

Report of the Select Committee Appointed to Enquire into the State of the Post Office Department in Upper Canada—W. L. Mackenzie, Chairman. February 11, 1829.

Journal of the Legislative Assembly of Upper Canada—1832.

Upper Canada Statutes—4 years.

#### NEWSPAPERS.

"The Canadian Argus and Niagara Spectator"—March 2, 1820—Vol. I, No. 16. Printed and Published by William B. Peters, Esquire, in the Town of Niagara, U. C.

"Herald"—Montreal—Aug. 13, 1823, Vol. XII, No. 83. Printed and Published by A. Gray.

"The Gleaner and Niagara Newspaper"—August 2<sup>d</sup>, 1823—No. 37—Vol. VI. Published every Saturday by Andrew Heron.

"The Colonial Advocate"—York, March 11, 1830. Third Series—Year 6, No. 363. Printed and Published every Thursday morning by W. L. Mackenzie, the Proprietor.

"The Gore Balance"—Hamilton, March 18, 1830. Vol. I, No. 15.

By B. Ferguson.

"The Courier of Upper Canada," Saturday, June 23, 1832. By Geo. Gurnett, York.

Published Semi-weekly on Wednesdays and Saturdays.

#### ORIGINAL DOCUMENTS.

##### ACQUIRED BY THE ARCHIVES.

102 volumes account books and correspondence of Brown & Gilmour, printers of Quebec Gazette.

Address of the inhabitants of Lower Canada to the King in 1828 (80,000 signatures).

Two Jesuit manuscripts: 289 pages.

North American Boundary. 27 portfolios correspondence and maps.

Liste (partie de) contenant les noms des députés à l'Assemblée Législative, avec certaines sommes retirées pour indemnité parlementaire.

Reçu signé J. L. Papineau, daté le 7 juillet 1862.

Reçu donné à Alexandre Jean Openord pour la somme de 4000

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livres étant le principal de deux constituts de rente 5% de la Ville de Paris, Juin 1682.

Contrat de mariage de Jean Bourasseau et de Pérette Vallée, 5 octobre 1665. This contract bears the signature of Tracy, Courcelle, Talon, de Boullongne, Anne Gasnier and others. Original MS.

Attestation pour la Nostre Dame, faicte de bois, de Nostre Dame de foy, Envoyée en Canada, pour y estre invoquée pour le Conversion des Sauvages. Signed by Claude de Veroncourt, De la Compagnie de Jesus, before Guillaume and Perrin, notaires, of Nancy, France, and is dated the 5th February, 1669. Original MS.

Among the interesting and valuable additions to the manuscripts collection of the Archives, may be mentioned an original Minute Book, of the years 1760 and 1761, purchased from the Hotel Dieu, of Montreal, and containing the articles agreed upon by Amherst and Vaudreuil for the capitulation of Montreal (Sept. 8, 1760), together with a number of proclamations by General Gage and Ralph Burton, Esq<sup>r</sup>, the latter with autograph signatures.

Extraits des Registres du Parlement de Normandie—Contemporary copy bound in vellum.

These extracts begin with the letters patent of Louis XII, erecting "La Cour de Parlement," and that of "l'Echiquier," in 1499. They contain subsequent letters patent erecting Courts by Louis XII and François I; and sundry other documents, amongst which the following six which relate to De Roberval:

Letters patent of François I to Jean François de la roeque Chevallier Seigneur de Roberval, defining his powers as leader of the expedition to be made to Canada, &c.

Letters patent authorizing Roberval to take prisoners from the gaols to complete the quota of men needed for his expedition to Canada.

Letters patent appointing Roberval to be the King's lieutenant general and conductor of an expedition to be made to Canada, &c.

Decree of the Parliament authorizing the registration of the Royal letters patent given to Roberval on the 15th Jan'y, and the 7th Feb'y, 1540.

Another decree to the same effect.

Power of Attorney given by Roberval to Allonce de Ciuille, Sr. de St. Martin.

The last document is a letter de cachet signed Louis.

Mines on Lake Superior.

Report of the Board of Trade upon the returns from Gen'l Gage and Sir Wm. Johnson, relative to a grant of—1768.

Convention du 7 juillet 1670 pour la reddition des forts de Pentagoet, Port Royal, St. Jean, La Haye, Cap Sable, et généralement toutes les terres de l'Acadie, signée par Hector Dondigny, chevalier de Grand Fontaine, et Thomas Temple, gouverneur anglais. (XVII<sup>th</sup> Century copy).

Ordre de Thomas Temple, signé à Boston le 7 juillet 1670, à son lieutenant Richard Walker, de livrer les forts et pays susdits, en conformité des articles du traité de Bréda. (XVII<sup>th</sup> Century copy).

M. Perraut

Monsieur

à Bordeaux le 21 février 1760

*Duplicata*

J'ay reçu avec un vray plaisir la lettre que vous m'avez fait Lamitie de m'écrire le 7 9bre dernier, puisque malgré tous les evenements facheux, elle maprend que vous jouissies d'une bonne sante dememe que Madame

1540,  
Jan. 15.

Feb. 7.

Jan. 15.

March 9.

March 14.

March 11.

1700,  
Aug. 25.

votre épouse et votre chère famille, je vous en souhaite aux uns et aux autres une longue continuation.

Je vous suis sensiblement obligé de la part que vous avez prise à tout ce qui nous ait arrivé de fâcheux dans notre passage de Québec à Bordeaux. Je voudrais de bon cœur pouvoir oublier aussi facilement les malheurs du Canada, que j'oublie ceux que nous avons essuies dans ce voyage.

nous avons appris par l'Angleterre à la fin d'octobre dernier, le malheureux sort de Québec? vous devez juger dans quelle triste situation nous a réduits une aussi affligeante nouvelle. J'en ai pu retenir mes larmes mes regrets et mes soupirs sur la perte d'une ville et d'un pays auquel Je dois tout, et auquel Je suis véritablement attaché comme qu'à ceux qui l'habitent. Nous nous flattions que le silence que les Anglois ont gardé pendant tout l'été sur ce siège, serait un présage avantageux pour nous et qu'ils seraient obligés de le lever honteusement nous savions même qu'imparfaitement qu'ils auraient eu un échec au saut de Mommenoy et que nous trouperions les suivoient de pres partout où ils voulaient faire des tentatives. nous nous sommes trompés dans nos espérances de même que vous. quelle fatalité quel malheur et combien d'événements que nous ne savions pas, ont contribué à notre infortune. Ils sont arrivés parce que Dieu l'a voulu, Il est le Dieu des armées Il donne la victoire à qui Il veut, et nous devons nous soumettre à sa sainte volonté.

Tous vos malheurs ne vous sont pas connus mon cher Monsieur, vous voyez bien la perte prochaine du reste malheureux de la colonie vous avez raison, cela ne peut pas manquer puisque les secours qu'on vous donne de France ne peuvent pas vous en garantir, mais la faible ressource sur laquelle les Canadiens comptaient de quelque lettre de change, leur est ôtée puisqu'on ne les paie plus depuis le 15 septembre? voilà voilà le comble de nos maux et le dernier coup qui assomme. celles des autres Colonies sont dans le même cas et généralement tous les papiers Royaux. le Roy ne paie rien et les peuples sont acablés d'impôts. Il n'y a plus de crédit ni de confiance, point de commerce maritime et on ne voit que des Banqueroutes dans généralement toutes les villes de la France, le Royaume est dans la plus grande désolation qu'on puisse s'imaginer. nos armées de Terre ont été battues partout, nous n'avons plus de Marine, nos vaisseaux pris ou brûlés sur les côtes ou les ennemis les ont fait échoier, la descente manquée par le Deconfians ayant été battu en sortant de Brest en un mot nous sommes dans une humiliation et une misère qui n'a point d'exemples.

Les finances du Roy sont dans un désordre affreux, le Roy a été obligé de faire porter son argenterie à la monnaie, les seigneurs ont suivi son exemple, et les particuliers sont forcés de la vendre pour pouvoir subsister et payer les fortes impositions auxquelles ils sont assujettis.

on fait actuellement par ordre du Roy l'inventaire de l'argenterie qui est dans toutes les Églises du Royaume, sans doute qu'il faudra la porter à la monnaie pour en être payé comme des lettres de change quand le bon Dieu voudra.

voilà en abrégé ce qui se passe ici, que je regrette, mon cher Monsieur les beaux jours que j'ai passés en Canada. Je voudrais y être encore, sans le changement qui y est arrivé. J'y avais une voiture et je vais à pied comme un chien dans les boîtes de Bordeaux ou je fais assurément pas aussi bonne chère que je la faisais à Québec. Dieu veuille que ce siècle de fer se change; nous nous flattions cet hiver que la paix pourrait

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se faire on en a parlé beaucoup et on en parle encore, mais Jeny vois aucune aparance. Il faut dit on encore une campagne pour achever de nous ruiner et pour Eloigner de plus en plus le payement des lettres de change. on ne sçait absolument que penser sur le sort de ce papier et on ne doit pas compter qu'on fasse d'arangen. que la paix ne soit faite, mon idée est qu'il n'y aura rien a perdre sur celui qui est enregistre, mais Je n'ay pas la meme Confiance sur celui qui ne l'est pas. Depuis la suspension on na pas voulu enregistrer aucune lettre de Change pas meme quelques unes qu'on m'aremis cette année qui Etoient payables en 1758. Il s'en negocie icy et a paris de celles enregistrees à 50 p % de perte et on n'en veut pas a aucun pris de celles qui ne le sont pas, encore les praneur se sont ralanthis. Il est arrivé depuis peu 4 navires de la comp<sup>e</sup> des indes richem<sup>t</sup> chargés, elle avoit besoin de ce secours car elle branloit dans les manches, cependant elle a toujours payé Exactement les lettres du Castor, meme accepté celles qui ne sont pas Echües.

nos affaires de la Coste de Cromandel vont comme les autres assés mal, on Craint pour ponticherry; les anglois font un gros armement pour la martinique, cette Isle aura le meme sort de la gouadeloupe.

les secuors qu'on vous donne, si tant est qu'ils puissent vous parvenir, de quoy Je doute, consistent en six navires marchands chargés de 1600 Tonneaux de vivres et de quelques munitions, avec 400 hommes des troupes de l'isle Royale; Je pense qu'on vous fait cet envoy plutost par honneur que par l'envie qu'on na pas devons soulager.

plusieurs se flattent que vous reprendrez quebec cet hyver, Je le souhaite mais Je n'en Crois Rien, ce sont de ces coups demain pour lesquels Il faut des geans aguerris et bien Determinés, qui, cependant ne Reussissent pas Toujours.

Embrasses Je vous prie pour moy votre chere Epouse et presentes luy mes respects, Embrasses aussy de ma part mon petit Camarade Je luy garde un cheval Tout d'or quant Il sera en france, et une caleche d'argeant, ma femme et toute ma famille vous presentent leurs civilités et je suis avec un sincere et veritable attachement.

Monsieur

Votre tres humble  
et tres obeissant Ser.  
Estébe

M. votre frere est Toujours a la Rochelle

J'envoy les gazettes am. Bernard Il vous en fera part. Godichou est bien sensible a votre souvenir Il vous pres<sup>te</sup> ses petis Respects et vous prie d'Embrasser pour luy vos chers enfants. Depuis que Je suis a Bordeaux Il n'y a pas passe qu'un seul navire de lamerique meridionalle sur plus De 50 qu'il en a Este Expedié. juges du Commerce que nous avons. Il y en a une mefiance dans toutes les places du Royaume Telle qu'on ne peut le croire sans l'avoir, le papier de M. Saiye, de Gradis et autres bonnes maisons dicy est refusé, on est obligé ceux ont de l'argent a paris de le faire voiturier, et ceux qui veulent y remettre Egallement.

du 6 mars

l'hopital de Toulouse vient de manquer 6 millions seulement, tout fait banqueroute commerçants et autres



## MISCELLANEOUS.

## TRANSCRIPTS.

- Prévôté de Québec for the year 1697.  
 Prévôté de Quebec for July to December, 1707.  
 Histoire de l'Hôtel-Dieu: Journal of Sœur Morin.  
 Collection générale de manuscrits aux Archives de la Province de Québec. Copied by Rev. P. M. O'Leary. Contains:—  
 Jean Eustache Lanouiller de Boisclerc, Grand Voyer, 1730-1758.  
 The Seignior of Notre-Dame des Angles, 1675-1759.  
 Requêtes présentées à la Prévôté de Québec, 1668-1715.  
 Correspondence of Louis Guillaume Verrier, Procureur du Roi à Québec, 1728-1758.  
 Minutes de Notaires étrangers, Curés & Capitaines de Milice, 1643-1807.  
 Index des noms de personnes et de lieux mentionnés dans la collection générale de mss. aux Archives de la Province de Québec, avec les nos. des pièces où ils se trouvent. Prepared by Rev. P. M. O'Leary.  
 Mémoires historiques sur la Colonisation de l'Acadie par Charles d'Aulnay de Charnisay et son administration. From the Parkman Collection in the Massachusetts Historical Society, Boston.

## DE SALABERRY PAPERS.

RECEIVED FROM MR. DE LA BRUÈRE, OF MONTREAL.

Mr. de La Bruère is editing these letters, and we intend to publish them in a separate form.

*Calendar of Letters.*

- 1775,  
Dec. 4. 1. *Sister St. Michel* to her brother, *M. de Salaberry*. Dated: General Hospital, Quebec, Dec. 4, 1775. Congratulates him on his escape. Nuns taken prisoners by Arnold's troops, Thursday, Nov. 16. Does not believe Quebec will yield without a struggle. Is anxious for news of him.
- Dec. 12. 2. *The same to the same*. Same address. Dec. 12, 1775. Further news of American siege operations, as seen from hospital. Personal and family matters.
- 1784,  
Oct. 23. *De Salaberry to his wife*. On board ship, off Dover: Oct. 23, 1784. Gives details of voyage. Personal messages, etc.
- No date. 3. *The same to the same*. Gives details of a certain money matter, and of a piece of good news therein referred to.
- No date. 4. *The same to his daughter*. Adelaide. Purely personal.
- 1801,  
Aug. 3. 5. *The same to his cousin* (a nun). Dated: Quebec, August 3, 1801. Announces his reappointment as Indian Superintendent.
- 1809,  
Dec. 6. 6. *The same to General*. . . . Dated: Quebec, Dec. 6, 1809. Refers to favours shewn him by H. R. H. the Duke of Kent. Gives details of his past services.
- No date. *Memorandum. Beauport militia*. Details of zeal and services.
- 1812,  
Aug. 7. 7. *De Salaberry to Mme. de Salaberry* (his mother). Dated: Blairfindie, August 7, 1812. Details *re* American prisoners and of his battalion.
- 1812,  
Aug. 16. 8. *The same to the same*. Family matters. Account of interview with General Prevost. Military details.



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- 1812,  
Aug. 17. 9. *The same to the same.* Dated Blairfindie, Aug. 17, 1812. Has seen Governor and General de Rottenburg. Does not know yet whether he is to retain his command or not. Personal and family matters. Hears that Americans are moving forces on Upper Canada, but does not think they will attack it this year (1812).
- Aug. 21. 10. *De Salaberry to Mme. de Salaberry.* Dated: Aug. 21, 1812. Personal and family matters only.
- Aug. 25. 11. *The same to the same.* Dated: Aug. 25, 1812. Speaks of delay in pay of militia. Gave dinner, two days previously, to Mr. Pinkney, the bearer of a flag of truce from U. S. General Putman. Was accompanied by French engineer. Comments on French mission to U. S.
- Sept. 3. 12. *The same to the same.* Dated: Sept. 3, 1812. Further reference to news brought by Mr. Pinkney, and to prospects of peace. Another flag of truce, with despatches, received that day. American general allowed to visit Governor privately.
- Sept. 7. 13. *The same to the same.* Dated: Sept. 7, 1812. Details as to movements of militia under his command, and of Americans. Has sent two companies to strengthen Ile-aux-Noix. Criticizes conduct of British general in sending troops to Upper Canada. Does not think Americans will get as far as Quebec.
- Sept. 10. 14. *The same to the same.* Dated: Blairfindie, Sept. 10, 1812. Further details of military movements; destruction of bridges, roads, etc. Enemy can only penetrate with artillery by way of St. John: does not think they will get as far as Quebec.
- Sept. 11. 15. *The same to the same.* Dated: Sept. 11, 1812. *Re* possible neutrality of General Hospital: suggests that family might retire thither: money matters.
- Sept. 17. 16. *The same to the same.* Dated: Blairfindie, Sept. 17, 1812. Details of enemy's movements; their fear of Canadian Indians. Has been ill, and is to be sent to Quebec, *via* Montreal, and by water. Successful review of his regiment.
- Sept. 19. 17. *The same to the same.* Dated: Blairfindie, Sept. 19, 1812. Further particulars as to his journey: his interview with General Prevost.
- 1813,  
Sept. 10. 18. *Monsieur L. de Salaberry to Col. de Salaberry* (his son). Dated: Beauport, Sept. 10, 1813. Personal and family matters only.
- Nov. 6. 19. *The same to the same.* Dated: Beauport, Nov. 6, 1813. Congratulating him on his victory at Châteauguay. States numbers as 300 Canadians against 7,000 Americans. Possible effects of victory.
- Nov. 18. 20. *The same to the same.* Dated: Beauport, Nov. 18, 1813. *Re* money matters. Has sent account of Châteauguay to the Duke [of Kent].
- Dec. 4. 21. *The same to the same.* Dated: Beauport, Dec. 4, 1813. *Re* mistake made by Joseph Vincent and Stanislas Vincent, of de Salaberry's regiment, in connexion with services of Indians. *Re* his complaint of G. P.'s (General Prevost's) ill-treatment of him: warns him against confiding in D. (Duchesnay).
- Dec. 1. 22. *The same to the Vicar General* (the parish priest of Beauport). Dated: Beauport, Dec. 1, 1813. Thanks him for his congratulations on his son's victory.
- 1814,  
Jan. 19. 23. *The same to Col. de Salaberry.* Dated: Beauport, Jan. 19, 1814. Questions as to receipt of letters; seigneurie of Chambly, etc. Rumours *re* Napoleon.
- Feb. 22. 24. *The same to the same.* Dated: Beauport, Feb. 22, 1814. *Re* peace probabilities. Draughts of letters of thanks to Legislative Council and Assembly *re* Châteauguay vote.

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- 1814, Feb. 24. 25. *The same to the same.* Dated: Beauport, Feb. 24, 1814. Further reference to above draught letters. *Re* printing of same. Personal matters.
- Feb. 25. 26. *The same to the same.* Dated: Beauport, Feb. 25, 1814. Repeats Governor's praise of his son "as one of the first officers of the army." News *re* thanks of Legislative Council, etc.
- Feb. 28. 27. *The same to the same.* Dated: Beauport, Feb. 28, 1814. Has received his letter: approves of course taken. Personal matters.
- March 1. 28. *The same to the same.* Dated: March 1, 1814. General order issued the day previous: "Lient. Col. de Salaberry is appointed inspecting field officer, etc." Wishes Daniel de Hertel made Staff Adjutant.
- March 2. 29. *The same to the same.* Dated: Beauport, March 2, 1814. Reasons for asking adjutancy, *ut supra*. Daniel de Hertel's attitude. Discontent of Voltigeur recruits at Col. de Salaberry's removal from regiment. *Re* matters contained in son's letter of Feb. 24.
- [March] 30. *The same to the same.* [Undated: March.] *Re* Hertel's appointment as Staff Adjutant; is sorry it was not possible. *Re* delay in despatch of thanks of Legislative Council. Congratulates him on attitude of his regiment.
- March 8. 31. *The same to the same.* Dated: Beauport, March 8, 1814. *Re* Col. de Salaberry's reflections on "the character and conduct of a certain personage." Is glad of his removal from the regiment. Personal matters.
- April 9. 32. *The same to the same.* Dated: Beauport, April 9, 1814. *Re* question of his leaving the service. Personally in favour of his doing so, but counsels great prudence in the matter. Must be made to depend on his health.
- May 24. 33. *The same to Mme. Ch. de Salaberry.* Dated: Quebec, May 24, 1814. Personal and family matters only.
- 1817, Dec. 24. 34. *The same to Col. Ch. de Salaberry.* Dated: Quebec, Dec. 24, 1817. Has seen Sir John Sherbrooke, son to be made member of Legislative Council. Governor wishes statement of his services, including Châteauguay. Should mention Prince Regent's thanks in General Order, etc.
- 1822., Dec. 22. 35. *The same to the parish priest* [of Beauport.] Dated: Quebec, Dec. 22, 1822. *Re* an address presented to the latter.
- 1823, Nov. 14. 36. *The same to Col. Ch. de Salaberry.* Dated: Nov. 14, 1823. Personal and family matters only.
- Dec. 7. 37. *The same to the same.* Dated: Dec. 7, 1823. Same subjects.
- Dec. 11. 38. *The same to the same.* Dated: Dec. 11, 1823. *Re* enforced attendance of legislative councillors: should send his excuse at once, if not able to attend. Family matters.
- Dec. 27. 39. *The same to the same.* Dated: Dec. 27, 1823. Same subjects.
- Dec. 29. 40. *The same to the same.* Dated: Dec. 29, 1823. *Re* sale of lands and other personal matters.
- 1824, Jan. 6. 41. *The same to the same.* Dated: Jan. 6, 1824. Same subjects.
- NOTE.—The foregoing letters are all in French. Those which follow are in English for the most part, and revert to an earlier period.
- 1812, Oct. 6. 42. *Col. Chas. de Salaberry to his father.* Dated: St. Philippe, Oct. 6, 1812. Particulars as to sedentary militia. Voltigeurs, etc.
- Oct. 26. 43. *The same to the same.* Dated: St. Philippe, Oct. 26, 1812. Governor has allowed latter's retirement, retaining rank. *Re* Lt. Colonelcy of Voltigeurs. Governor pleased with his arrangements. Reports as to movements of Americans, etc. [Letter not signed.]
- Nov. 13. 44. *The same to the same.* Dated: St. Philippe, Nov. 13, 1812. *Re* his commission as Lt. Colonel. Accounts received of enemy's movements. American prisoners taken, etc. Regiment approved in England.

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1812.  
Nov. 30. 45. *The same to the same.* Dated: Chambly, Nov. 30, 1812. News of movements of troops; Voltigeurs have behaved well. Has been thanked in General Orders.
- Oct. 26. 46. *Sir G. Prevost to Major Chs. de Salaberry* (copy). Dated: Montreal, Oct. 26, 1812. Conveys Prince Regent's approval of corps of Provincial Light Infantry, and of Canadian loyalty. *Re* his commission of Lt. Col.
- Oct. 27. *Answer to foregoing.* St. Philippe, Oct. 27. Governor's reply, Oct. 28. Followed by note to Col. de Salaberry [at Beauport].
- Nov. 1. 47. *Sir G. Prevost to Lt. Col. de Salaberry* (copy). Dated: Montreal, Nov. 1, 1812. Information *re* enemy's movements; approves of disposition of forces; support to be afforded him.
- The same to the same.* Same subject. [About Nov. 19.] Is sending Milnes to relieve Boucherville. He will report by latter on enemy's movements. [Nov. 19.] [Two letters.]
- Nov. 21. 48. *The same to the same.* Dated: Chambly, Nov. 21. Approves of his proceedings. Information *re* movements of troops, instructions, etc.
- Nov. 27. 49. *General Orders* (copy). Dated: Laprairie, Nov. 27, 1812. Commander of forces expresses approbation of Lt. Col. de Salaberry, etc. To be read at head of every corps on parade.
1813.  
Jan. 29. 50. *Lt. Col. de Salaberry to his father.* Dated: Chambly, Jan. 29, 1813. Sends particulars of his promotion. Of recruiting of corps, etc.
- June 6. 51. *The same to the same.* Dated: St. Philippe, June 6, 1813. *Re* baptism of son, Duke of Kent, and Mde. de St. Laurent. Statement of his pay as Lt. Col. *Re* his mother and sisters' possible claim to rations.
- Aug. 6. 52. *The same to the same.* Dated: St. Philippe, Aug. 6, 1813. Has returned from covering retreat of Lake Champlain flotilla. Account of fighting at Plattsburg, &c.; not satisfied with results.
- Sept. 29. 52a. *The same to the same.* Dated: Châteauguay, Sept. 29, 1813. Particulars as to his movements. Is to cross U.S. line, to reconnoitre enemy, at Four Corners. Begs him to destroy letter, for fear of its falling "into the hands of the Yankees at Beauport."
- Sept. 24. 53. *The same to the same.* Dated: Lacolle, Sept. 24, 1813. Particulars of enemy's movements: [25<sup>th</sup>] Said to be moving on Upper Canada, but uncertain.
- Oct. 5. 54. *The same to the same.* Dated: Châteauguay, Oct. 5, 1813. Particulars of his Four Corners reconnoissance [letter of Sept. 29]; complains of Indians' impatience and disobedience. Hints that Governor expects too much of him.
- Oct. 6. 55. *The same to his wife.* Dated: Châteauguay, Oct. 6, 1813. (French). Personal, with some references to duty and enemy.
- Oct. 29. 56. *The same to the same.* Dated: Châteauguay, Oct. 29, 1813. Account of action of Oct. 26 (Battle of Châteauguay), with copy of General De Watteville's Advance Brigade Orders, and Governor's expression of approbation.
- Oct. 29. 57. *The same to his wife.* Dated: Châteauguay, Oct. 29, 1813. (French.) Brief account of action of Oct. 26.
- Nov. 2. 58. *The same to "Marie Anne"* (his wife.) Dated: English River, Nov. 2, 1813. Retreat of American army to Four Corners. Complains of being unjustly treated by Sir G. Prevost and DeWatteville. Generals only arrived after action was over; accuses Prevost of lying in saying otherwise. Talks of "gaining battles for the benefit of others;" his officers angry. Exonerates de Watteville.
- Nov. 3. 59. *The same to his father.* Dated: Châteauguay River, Nov. 3, 1813. Further reference to same subject: attempt to deprive him of merit of



- 1813, victory: his version of the matter, confirmed by General Order. Complaint against Sir G. Prevost.
- Nov. 1. 60. *Lt. Col. Chs. de Salaberry to Col. Baynes*. Dated: Advance Posts, Nov. 1, 1813. *Re* General Order of Oct. 27, and action of Oct. 26. States his side of the case. Wishes statement submitted to Governor General.
- Nov. 22. 61. *The same to his father*. Dated: Georgetown, Nov. 22, 1813. Further reference to the same subject.
- Nov. 26. 62. *The same to his wife*. Dated: Above Châteauguay, Nov. 26, 1813. (French). Details of his movements. Complains of Prevost's asking impossibilities.
- Dec. 5. 63. *The same to the same*. Dated: Montreal, Dec. 5, 1813. Details *re* regiment and of his own movements and services. Reasons for resigning. Religion "*a complete bar*" to his employment as a general officer. Complains of Prevost's sending him to Four Corners.
- Dec. 19. 64. *The same to the same*. Dated: Montreal, Dec. 19, 1813. His complaints appear to have had a good effect, even with Governor. Latter's opinion of writer, as expressed to Mme. de Rottenburg. Blame laid on Baynes.
- Undated. 65. *The same to the same*. Undated. St. Philippe. *Re* baptism of child. Sends his extract of Sir G. Prevost's despatch to Government. Comments on same.
- 1814, 66. *The same to the same*. Dated: Montreal, Jan. 24, 1814. Personal and family matters. Particulars as to enemy's movements, etc.
- Jan. 24. 67. *The same to the same*. Dated: Côteau du Lac, Jan. 31, 1814. Sent there on false alarm, with troops mentioned. Sends him copy of House of Assembly's resolution *re* battle of Châteauguay.
- Jan. 31. 68. *The same to the same*. Dated: Côteau du Lac, Jan. 31, 1814. *Re* his answer to House of Assembly's vote of thanks. Sends copies of Speaker's letter, and of his answer thereto.
- Feb. 1. 69. *The same to the same*. Dated: Montreal, Feb. 5, 1814. Details of march to Côteau du Lac. Personal matters.
- Feb. 5. 70. *The same to the same*. Dated: Montreal, Feb. 7, 1814. *Re* his appointment as Inspecting Field Officer: reasons why he cannot make Daniel de Hertel staff adjutant. No thanks received from Legislative Council.
- Feb. 7. 71. *The same to the same*. Dated: Montreal, Feb. 24. Details *re* his regiment. *Re* money given by the Patriotic Society. Has written memorial to Duke of Kent, *re* loss of his majority in 60<sup>th</sup> regt. Thinks there must be a general peace in Europe. American superiority on Lake Champlain, etc.
- Feb. 24. 72. *The same to the same*. Dated: Montreal, Feb. 24. Details *re* his regiment. *Re* money given by the Patriotic Society. Has written memorial to Duke of Kent, *re* loss of his majority in 60<sup>th</sup> regt. Thinks there must be a general peace in Europe. American superiority on Lake Champlain, etc.
- March 1. 73. *The same to the same*. Dated: Montreal, March 1, 1814. *Re* answer to vote of Legislative Council not yet received. Doubtful as to peace with U. S. A. being made soon.
- March 2. 74. *The same to the same*. Dated: Montreal, March 2, 1814. Council's vote of thanks not yet received. His opinion as to a "certain personage." [Continues in French.] (Evidently refers to Sir G. Prevost). Again refers to his religion as a bar to his employment as a general officer. Compares his case with two others.
- March 21. 75. *The same to the same*. Dated: March 21. *Re* his appointment as Inspecting Field officer.
- April 4. 76. *The same to the same*. Dated: Chambly, April 4, 1814. News of the enemy's movements. Refers to Sir G. Prevost's despatch to Lord Bathurst, as proof of neglect: militia battalions recommended, but no mention of himself. Suspects authenticity of Lord Bathurst's letter as given out.

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- 1814,  
April 14. 76. *The same to the same.* Dated: Montreal, April 14, 1814. Same matters as referred to in foregoing letter. Hears that he is to receive a medal.
- April 30. 77. *The same to the same.* Dated: Chambly, April 30, 1814. Chiefly *re* personal and family matters; but again refers to medal to be given by Prince Regent.
- Aug. 5. 78. *Light Brigade Order.* Dated: Odell Town, Aug. 5, 1814, and signed: "Ch. de Salaberry, Lt. Col. Com."
- July 26. 79. *Report* [unsigned but by de Salaberry] on military practicability of high road from Acadie Church to Lacolle River. To Major General de Rottenburg.
- 1815,  
April 2. 80. *Lt. Col. Ch. de Salaberry to his father.* Dated: Chambly, April 2, 1815. *Re* address of House of Assembly to Prince Regent, mentioning his services. Owes it to the good offices of his friend O'Sullivan.
- Aug. 3. 81. *The same to the same.* Dated: Chambly, Aug. 3, 1815. Sends him a letter from the Duke of Kent.
- Nov. 22. 82. *The same to the same.* *Re* favour promised by Sir G. Prevost: asked to stand as member for county of Bedford; opposed by Judge McCord.
- Dec. 17. 83. *The same to the same.* Dated: Dec. 17, 1815. Further particulars *re* his election.
- Dec. 25. 84. *The same to Lt. Governor's secretary.* Dated: Chambly, Dec. 25, 1815. *Re* his appointment as Inspecting Field Officer. [Copy.]
- Dec. 29. 85. *The same to Lt. Gov'r Sir G. Drummond.* Dated: Chambly, Dec. 29, 1815. Same subject. [Copy.]
- 1816,  
Jan. 12. 86. *The same to Mr. Secretary.* Dated: Chambly, Jan. 12, 1816. *Re* half-pay granted to officers of Voltigeurs.
- 1817,  
June 5. 87. *The same to his father.* Dated: Chambly, June 5, 1817. *Re* his appointment as Companion of the Bath. His obligations to MacDonell.
- 1819,  
April 13. 88. *The same to the same.* Dated: Montreal, April 13, 1819. *Re* duel fought by his friend O'Sullivan.

## SUMMARY OF LETTERS FROM GOVERNORS OF LOWER CANADA TO SUPERIORS OF THE SEMINARY OF MONTREAL.

1790-1830.

- 1790,  
Dec. 27.  
Quebec. Alured Clark to Mr. Brassier, Superior and Vicar General. Thanks for congratulations, and expresses his good wishes for the happiness of the Gentlemen of the Seminary.
- 1791,  
Dec. 31,  
Quebec. J. Hale to Mr. Brassier. Transmits thanks from His Royal Highness Prince Edward, for the gift of a snake.
- 1792,  
June 28,  
Quebec. Jean Le Maistre to Mr. Brassier. The Governor desires to know when and how Mr. DeLavan entered the Province, and regrets that he has been allowed to exercise the ministerial functions, as he is not a British subject.
- 1793,  
July 16,  
Quebec. Thos. Aston Coffin, Secretary, to Mr. Brassier. Advises him that Mr. LeSaulnier is authorized to reside in the Province.
- Nov. 18,  
Quebec. H. W. Ryland to Mr. Brassier. Lord Dorchester wishes a list of persons duly qualified to fill the place of Clerk in the Court of Common Pleas at Montreal.
- 1796,  
Oct. 16. H. W. Ryland to the Superior of the Seminary at Montreal. Announcing that Messrs. Charles B. Jaoüen and Jacques Roque, French Priests of the Seminary of St. Sulpice of Paris have leave to come to Canada.



1797.  
May 15,  
Quebec.

H. W. Ryland to Mr. Brassier. Transmits General Prescott's thanks to Mr. Roux, for congratulations on his appointment as Governor in Chief.

1798,  
Nov. 1,  
Quebec.

S. Gale, Sec'y, to Mr. Roux. His Excellency Gen'l Prescott wishes to express his approbation at the choice of Mr. Roux as Superior of the Seminary of Montreal.

Nov. 22,  
Quebec.

J. Sewell, Att't Gen'l, to the Solicitor General at Montreal. Respecting Mr. Roux' election as Superior of the Seminary of Montreal. Also wishes information regarding Rev. Mr. Robin's conduct among the soldiers of the Royal Canadian Volunteers, as he is supposed to be an agent of the French Directory.

Nov. 29,  
Quebec.

S. Gale, Sec'y, to Mr. Roux. His Excellency Gen'l Prescott declares nul and void Mr. Roux' election as Superior of the Seminary on the ground that he is not a British subject.

Memorial of the Seminary of Montreal, through Rev. Mr. Bourret, to His Grace the Duke of Portland, Secretary of State. In favour of Mr. Roux, who has been elected Superior of their Seminary.

1799,  
July 15,  
Quebec.  
Aug. 8,  
Quebec.

Gen'l Prescott to the Ecclesiastics of the Seminary of Montreal, Thanks for their letter on the eve of his departure from the Province.

H. W. Ryland to Mr. Roux. Transmits Sir Robert S. Milnes' thanks to the Gentlemen of the Seminary for their letter on his assumption of the Government of the Province.

1800,  
Feb. 24,  
Quebec.

H. W. Ryland to Mr. Roux. Transmits His Excellency's thanks for the loyalty of the Gentlemen of the Seminary. Wishes information on a proposed college at L'Assomption.

Dec. 31,  
Quebec.

J. Bentinck to Mr. Roux. Transmits His Excellency's thanks for his good wishes on the occasion of the New Year, and returns the compliment.

1801,  
Nov. 9,  
Quebec.

H. W. Ryland to Mr. Roux. Confidential letter relating to a supposed spy. Doings and description of a supposed spy.

Dec. 10,  
Quebec.

H. W. Ryland to Mr. Roux. Returns thanks for information given.

1802,  
May 17,  
Quebec.

H. W. Ryland to Mr. Roux. The Lieut. Governor wishes to promote the cultivation of Hemp and offers seed.

Dec. 30,  
Quebec.

H. W. Ryland to Mr. Roux. Returns His Excellency's thanks for good wishes on the approach of New Year; also approbation for pains taken to forward the cultivation of Hemp.

1805,  
Jan. 2,  
Quebec.  
1807,  
Oct. 29,  
Quebec.

J. Stewart, Sec'y, to Mr. Roux. Expresses His Excellency's thanks for his good wishes.

H. W. Ryland to Mr. Roux. Thanks for his letter of welcome.

1819,  
Aug. 10,  
Calverton.

Sir J. C. Sherbrooke to Mr. Roux. Could not obtain a copy of the Minutes of the Privy Council dated —, 1764 respecting the funds of the Seminary of Saint Sulpice in Canada.

With enclosure for the Under Secretary of State, on this subject.

1821,  
June 23,  
Quebec.

J. Plante and other members of the Société d'Education de Québec to Mr. Roux and others. Transmit the Minutes, Rules and Resolutions of the Society.

June 30.,  
Quebec.

Abbé J. Demers to Mr. Roux. Transmits a draft of a School Bill proposed to be sent to His Majesty, by the Société d'Education de Québec. Draft of address.

Sept. 24,  
Downing  
Street.

Lord Bathurst to Earl of Dalhousie. Respecting the conflicting claims of the censataires of the seignior La Salle and the holders of land in the township of Sherrington.

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1826,  
June 3.  
Sorel.

Lord Dalhousie to Lord Bathurst. Recommends Rev'd Mr. Roux.

June 3.  
Sorel.

Lord Dalhousie to Mr. Roux. Sends letter of introduction asked for, and wishes him a good voyage and a speedy return.

1827.

Inscription in French for the Monument to Wolfe and Montcalm, erected in Quebec, on the 15th October, 1827.

1828,  
Aug. 8.  
Quebec.

A. W. Cochrane, Sec'y, to Mr. Roux. Congratulations on his safe return to this Province.

Aug. 30.  
Quebec.

Lord Dalhousie to Mr. Roux. Hopes that the affairs of the Seminary will be arranged to their satisfaction. Will recommend them to his successor.

Sept. 10.  
Quebec.

A. W. Cochrane, Sec'y, to Mr. Roux. Acknowledges, by direction of the Administrator, the receipt of his letter of congratulation on his assuming the reins of government, and thanks him for sentiments therein expressed.

1829,  
Jan. 5.  
Quebec.

Sir Jas. Kempt to Mr. Roux. Returns thanks to the Seminary for their good wishes and assures them of his protection.

Dec. 31.  
Quebec.

Sir Jas. Kempt to Mr. Roux. Returns thanks to the Seminary for their good wishes, and assures them of his protection.

1830,  
Aug. 20.  
Quebec.

Sir Jas. Kempt to Mr. Quiblier. Regrets to learn of Mr. Roux' inferior state of health; expresses great satisfaction at Mr. Quiblier's appointment as Vice-Superior.

Oct. 25.  
Quebec.

Lord Aylmer to Mr. Quiblier. Is as well disposed towards the Montreal Seminary as any of his predecessors.

Oct. 20.  
Quebec.

Sir Jas. Kempt to Mr. Quiblier. Thanks the Gentlemen of the Seminary for their letter on the eve of his departure. Will not fail to recommend them to his successor.

Recensement des habitants de la ville et gouvernement des Trois-Rivières, tel qu'il a été pris au mois de septembre mil sept cent soixante.

Correspondence des Gouverneurs du Canada, 1637-1661. 2nd series. Copied from a transcript in the Parliamentary Library, Ottawa.

## CHURCH REGISTERS.

Registres de la Paroisse de Notre-Dame de Montréal, 1643-81.

Registres de mariages de Notre-Dame de Montréal, 7 mars 1643—19 mars 1670.

Registres de la Paroisse de Notre-Dame de Montréal, 1670-75.

Registres de la Paroisse de Notre-Dame de Montréal, 1675-79.

Registres de la Paroisse de Notre-Dame de Montréal, 1682-87.

Registres de la Paroisse de Notre-Dame de Montréal, 1687-92.

Registres de baptêmes et sépultures de Trois-Rivières, 1634-99, 2 port-folios.

Register of St. Raphael's Church, Glengarry, 1805-1825. Received from Reverend D. A. Campbell.

Registres de l'église Sainte-Anne de Frédéricton, 1806-1858.

Plan of property on the Moira River, by J. S. Peterson, D.P.S., Belleville, 26th January, 1844.

Warrants, lands, &c., 1764-67. Received from the Literary & Historical Society of Quebec, per Rev. P. M. O'Leary.

Bibliography of Canadian Statute Law, by W. Eakins, Librarian, Osgoode Hall, Toronto. Typewritten from the Law Library Journal, Vols. 1 & 2, 1908-09.

2 GEORGE V., A. 1912

Miscellaneous documents received from the Department of Militia and Defence. (Commissions of Jarvis, Paterson, &c.)

North Atlantic Fisheries Arbitration—

Proceedings at the Hague Tribunal, 1910, 11 vols., and maps 1 vol.

Also printed documents, case, arguments, appendices, &c., used in the case, 10 vols., and maps 1 vol.

Received from F. C. T. O'Hara, Esq., Deputy Minister of Trade and Commerce. Evidence taken before the Royal Commission on the Grain Trade of Canada, 1906. 14 vols. typewritten.

Militia Orders issued at Halifax, 1830-33, copied at the Military Institute, Toronto. Contains also some Army and Garrison orders.

### THE WORK OF THE HISTORICAL RESEARCH SCHOLARS.

During the summer of 1911 students appointed under the scholarship scheme inaugurated by the Dominion Government conducted historical research at the Dominion Archives. McGill University, Queen's University, The University of Toronto, Laval University (Quebec), Ottawa University, The University of Manitoba and the University of New Brunswick each nominated a student. Questions for study were selected by the men, subject to the approval of the Dominion Archivist. Each student was then given direction in examining material in the Archives relative to his subject. At stated periods reports were prepared by the students setting forth the extent of the manuscripts examined with an estimate of their historical value. This has served as an aid in the work of the student and will be of value to the Archives as a guide to the manuscript sources. The work of the students throughout the summer has been entirely satisfactory and completely justifies the experiment of historical research scholarships.

The following list gives the names of the students engaged in research, the university represented and the subject of study:—

Student.	University.	Subject.
Geo. Weir.....	McGill University.....	The Civil Power of the Gov. of Canada, 1841-1854.
J. C. McFarlane.....	Queen's University.....	Local Government in Ontario, 1791-1841.
H. R. Gordon.....	University of Toronto....	The Metcalfe Crisis.
Geo. Maheu.....	Laval University.....	The Special Council of Lord Durham.
J. A. Nadeau.....	Laval University.....	The Proposed Union of 1822.
A. Fleming.....	Ottawa University.....	The Reciprocity Treaty of 1854.
B. Jonsson.....	University of Manitoba....	The Selkirk Settlement of 1821-1835.
E. R. Macnutt.....	University of New Brunswick .....	The Pre-loyalist Period in Nova Scotia.

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DOCUMENTS RELATING TO CANADA IN ITALIAN  
ARCHIVES.

The following documents have been calendared by Dr. Carl Russell Fish in his "Guide to the Materials for American History." Copies will be obtained for the Canadian Archives.

- 1748,  
Oct. 28. Cypher from the nuncio, on the capture of Cape Breton, and the peace. Series Nunz-Francia, No. 491, page 74.
- 1755,  
Jan. 6. News of the preparations made in America for the war between France  
Feb. 3, 17, 24, and England. Series Nunz-Francia, No. 493, page 74.
- 1760,  
Oct. 20. News of the Fall of Canada on Sept. 8. Series Nunz-Francia, No. 509, p. 74.
- 1763,  
Jan. 11 and 18. Series Nunz-Fiandra.  
Letters of nuncio.
- Nov. 8. On difference with reference to the evacuation of places in America.  
Letter. Series Nunz-Fiandra, No. 135 Ff., p. 79.
- Activity of the Indians of Acadia. News.  
St. Pierre and the fishing on the Banks. Discontent in New York.  
Plans for a new Colony. The Acadians in South Carolina and Georgia.  
The Greeks. News.

## VATICAN LIBRARY.

## BARBERINI ARCHIVES.

Rules observed in the reform of facoltà for missionaries.

## PROPAGANDA FIDE.

## ATTI.

- 1622,  
Feb. 4. Division of the whole world into provinces.
- 1625,  
July 21. An order for the sending of missionaries to North America.
- 1625,  
Nov. 17. Information from Father Simon Stock, regarding the Island of Avalonia, between England and North America, and upon a passage found, through a river of North America, to China.
- 1630,  
July 9. On the sending of English Puritans to North America, and provisions concerning it.
- 1631,  
Feb. 3. The sending of Capuchins to New England confirmed.
- Feb. 25. Concerning the land of Avalonia in North America.
- July 5. Concerning the Kingdom of Canada in North America.
- 1632,  
May 3. On the progress of Canada, and three missions of the French there.
- July 19. On the missions of the Capuchins in Canada and their two hospitals.
- 1634,  
April 4. Concerning the sending of English Priests to Maryland and North America.
- 1639,  
Jan. 19. Concerning the mission of French Recollets in Canada, and the state of that Religion.



1635.  
Feb. 28. Concerning the confirmation, and the reform of the mission of the Recollets in Canada.
- April 23. That heretics be prohibited from going into Canada.
1637.  
March 23. Facoltà for the mission of the fathers of the Society of Jesus in Canada.
1638.  
March 16. Rejection of petition from Jesuit Missionaries in Canada.
- April 20. Concerning the Mission of the Irish to the Island of St. Christopher and "Virginiam Indiarum Occidentalium."
1639.  
April 18. Concerning the spiritual state of the people in Canada.
1641.  
Feb. 26. Mission in New France and Canada, resolved upon by "D. Carolo Camus Duperon praesbitero Lugdunensi."
1642.  
Feb. 14. Extensions of the mission of Canada to the whole of New France, in accordance with a map sent therefrom.
1649.  
Feb. 19. Opinion of Rossetti on the sending of a mission to Maryland.
1642.  
Sept. 12. On the sending of Capuchins from the Province of Normandy, "ad caput de Nort Americae septemtrionalis."
- Nov. 8. The sending of Brother Carolus Arpineus, Recollet, "ad loca provinciae Franciae," subject to the approval of the nuncio.
1644.  
Feb. 23. Concerning the mission of the Recollets of the province of Conception in France, to Canada.
1646.  
May 7. Concerning the mission of the Minimi to Canada.
1647.  
April 9. Concerning the mission of Father Maccarius of Paris of the third order of St. Francis, "ad loca concessa a Rege Chr'mo D'no de Ormellis in America."
- Aug. 19. Concerning Capuchin missions to French America.
- Sept. 7. Same subject.
- Dec. 10. Concerning a letter of the Queen of France regarding Capuchin Missions in America.
1651.  
Aug. 7. Concerning the petition of Jesuit missionaries in French America that facoltà be granted the superior of those missions.
1653.  
July 28. Information concerning certain brothers of the Order of S. M. Mercedes for the redemption of captives, who desire to be sent as missionaries to America.
1657.  
June 14. Question of the creation of bishops in French North America, with a discussion of the proper limits of their sees.
1658.  
May 13. Request of a priest to accompany three hundred French who are going to America.
1660. Request for facoltà from the vicar apostolic of Canada.
1660. Relation of the missions of Canada by Mons. Lambert.
1661. Relation of the mission of Canada.
1664.  
Feb. 4. Facoltà for the missions of America.
1666.  
Feb. 25. Relation of the state of missions in Canada, and appointment of a special congregation to consider the erection of a bishopric at Quebec.
1667.  
Jan. 10. On the erection of a bishopric at Quebec.
- March 1. Request of the vicar apostolic of Canada, for a holy body.
- Sept. 12. On the erection of Quebec into an episcopal see.
- Nov: 28. Request of the bishop of Petraea (Laval) for the erection into parishes of the Church of Quebec and other rural churches.
1668.  
May 7. Facoltà for missionaries in the Western Indies.
1669.  
March 26. Pierre de Neufville, missionary of Newfoundland, asks for certain facoltà. Nuncio at Paris to be requested to send information.



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- 1669,  
April 2. Facoltà for priests accompanying French merchants to the islands of America.
- April 2. The vicar apostolic of Canada records the order for the erection of that church into a bishopric, discussing the attempt of the Archbishop of Rouen to exercise jurisdiction.
- May 13. Request of a French priest for facoltà to serve the French who go to Newfoundland.
- 1670,  
June 2. From the Bishop of Petraea (Laval) on certain nuns established in Canada.
- June 17. On the erection of the church of Quebec into a bishopric.
- Dec. 1. (Same as June 17).
- 1671,  
Jan. 12. Request of the Bishop of Petraea for the erection of the church of Quebec into a bishopric.
- April 17. Petition of the Bishop of Petraea that the bull for the church of Quebec be expedited by the "via segreta."
- 1671,  
April 27. Deputation of Capuchin missionaries, for a station in "Lorenzo Vanheuskert" near the sea of "Corvia," called the Florida of the North, in North America.
- 1672,  
July 4. The Bishop of Petraea requests money to aid in the expedition of the bull for the church of Quebec.
- 1673,  
April 18. Requests of a financial nature from the Bishop of Petraea, with regard to the church of Quebec.
- June 13. The nuncio at Paris writes that he has been solicited by the Bishop of Petraea to hasten the expedition of the bull for the church of Quebec.
- 1677,  
Aug. 2. Request from the Capuchins of the province of Normandy, for permission to exercise certain facoltà during the voyage to the French island of America, the difficulties of which they describe.
- 1684,  
May 2. The prefect of the Jesuits in America requests facoltà.
- Nov. 27. Requests for mission of four Recollets in "isola Louisiane" under the direction of the Bishop of Quebec.
- 1685,  
Jan. 8. On the discovery of an island to which has been given the name of Louisiana, and the sending thither of Recollet missionaries, at first placed under the direction of the Bishop of Quebec, but now, by reason of their distance from that see, placed under the prefect of the Recollets of French Santo Domingo.
- May 7. Facoltà for the Bishop of Quebec.
- 1686,  
March 26. Request of Father Massimiliano Sanvabriano, of the third order of St. Francis, for facoltà, in the new mission of "Chebadentu" (Chedabuctu?), two hundred leagues from Quebec.
- 1686,  
June 18. Facoltà granted Father Massimiliano, and his mission placed under the direction of the Bishop of Quebec.
- 1686,  
Nov. 19. Father Felice d'Artassona, Capuchin of America, requests privileges and favors granted by Adrian VI., and reports on the heavy oppression which impedes the conversion of souls in those parts. He desires that the superiors be ordered not to hinder monks from going thither according to the concession of the King, and that in order to fulfil the number fixed by the Council of the Indies, four secular priests and two laics be allowed to go.
- 1687,  
Sept. 15. Two Capuchins request to go to America as missionaries.
- 1693,  
Nov. 15. Father Michel Angelo of Rouen, provincial of Normandy, is given the prefecture of missions in America and its islands.

1696,  
March 20.

D. Francesco Bullon requests missions in the Indies; and Father Bartholomé and Raphael, French Capuchins, request missions in British islands.

1703,  
Jan. 9.

Father Michel Angelo of Rouen, Capuchin, provincial of Normandy, and prefect of the missions of his order in the islands of America not subject to bishops, requests the brief of the jubilee of holy year.

1714,  
March 20.

Facoltà to Mgr. Francisco, Capuchin, coadjutor of the Bishop of Quebec.

1722,  
April 13.

The procurator general of the Capuchins requests that the provincial of the province of Champagne in France be declared prefect of the missions of the island of Louisiana. Ordered that the nuncio at Paris be requested to send information.

1744,  
April 20.

The provincial of the Capuchins of Normandy requests facoltà.

1748,  
July 1.

To the provincial of the Capuchins of Turenne, facoltà, and prefecture of the French islands of America.

1749,  
March 4  
and July 7

The French Capuchins of the islands of America request power to manage money; which is conceded to them in a limited degree.

1749,  
Dec. 15.

Facoltà of dispensation denied the provincial of the Capuchins of Turenne, as prefect of the missions of his order in America.

1753,  
Feb. 12.

Facoltà to Capuchins.

1759,  
July 9.

Dispute between the superior of the Jesuits, constituted vicar general with pontifical dispensation in "Luigiana" by the Bishop of Quebec, and the Capuchin missionaries there.

1760,  
March 10.

Facoltà and prefecture in America to the provincial of the Capuchins of "Borgogne."

1765,  
March 3.

Prefecture of the Capuchin missions of New Orleans.

1796,  
Aug. 1.

On the missions of the French Capuchins in North America.

#### SCRITTURE ORIGINALI RIFERITE NELLE CONGREGAZIONI GENERALI.

1641,  
Jan. 7.

The Provincial of the Capuchins of Paris speaks of the missions of Canada.

1648,  
March 13.

Sig. Damon has been designated by the King of France to establish a seminary in America, under the Capuchin fathers.

Copy of a letter of the nuncio in behalf of M. Damon.

1631,  
June 1.

Brother Simon Stock says that it would be a work of much honor to the church to establish a colony of Italians in America, with their own bishop.

1631,  
June 25.

The above mentioned Brother Stock rejoices at the mission of the Capuchins in America ordained by the Sacred Congregation.

1626,  
April 22.

Brother Stock writes from London, saying that he has sent a map of America showing the probability of a passage through America to China, which would be of great advantage to the church. Also that the best part of America is in the temperate zone, where are the best natives and mines, and by the heretic English, who have founded the city of "Pli-mouth," situated, like Rome, on the hills, and whither in three years ten or twenty preachers have gone.

The above mentioned Brother Stock speaks of the necessity of providing for a mission in "Avalonia," because of the easy passage thence to China, and answers inquiries of the secretary of the Propaganda, concerning the Catholic pilot who discovered this fact, and who is now thought to be in Spain.

1625,  
Oct. 30.

On the missions of the island called Avalonia.

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- 1626,  
Feb. 1. The nuncio in Spain writes on the search, at the instance of the secretary of the Propaganda, for persons informed as to the voyage from England to China by means of the rivers of North America.
- 1635, List of Capuchin ecclesiastics who desire to go on missions.
- 1635,  
Feb. 27. The nuncio at Paris will take care to provide that non Catholics are not transferred to Canada.
- 1635,  
May 24. The nuncio at Paris writes that facultà for the Recollets of Canada have been received.
- 1632,  
Feb. 22. The nuncio at Paris recommends that Father Giacinto, Capuchin, come to Rome to give an account of the mission of his order in France and Canada.
- 1637, The provincial of the Capuchins of Normandy sends the names of missionaries in America.
- 1634,  
Feb. 11. Father Virginio of Paris goes as missionary to New France, Virginia and Florida.
1634. Paul le Jeune gives account of conversions made in Canada.
- 1640,  
Sept. 1. Missionaries proposed for the missions of Canada.
1640. List of twelve priests and two lay brothers, Capuchins, for the Canadian missions. (Latin).
- 1642,  
May 14. The provincial of the Capuchins says, among other things, that the ambassador of Constantinople has been declared viceroy of North America.
- 1642,  
Jan. 20. The Capuchin missionaries of America designate a Capuchin priest as prefect of missions.
- 1642,  
May 28. The provincial of the Capuchins of France has received the decree for the extension of the missions in America.
- 1640,  
May 28. The provincial of the Capuchins of Normandy gives account of the missions of America.
- 1642 (?).  
May 26. The provincial of the Capuchins speaks of Canada and Florida, wishing to forestall the Dutch in occupying a place where the natives are docile and one can embark in February.
- 1642 (?).  
Nov. 7. The above mentioned provincial gives a relation of Canada.
- 1641,  
Dec. 8. Another relation of the same mission by the same provincial.
- 1641,  
Oct. 8. The same provincial sends a map of parts of America, made by a priest who lived there three years.
- Nov. 7. Note of fourteen candidates considered for the mission of Maryland with a relation of Maryland of this date.
- Nov. 12. Decree of the Sacred Congregation on the expedition of missionaries to Maryland.
- 1643,  
March 13. Matteo Darcelle, priest, writing from Paris, requests to go as missionary to America.
- 1645,  
March 13. Recommendation of the aforesaid Darcelle, by a missionary of America.
- Request of the aforesaid Darcelle to go as a missionary to America with companions.
- 1643.,  
March 6. The nuncio in France recommends two missionaries for America.
- 1645,  
July 13. The nuncio in France speaks of the new mission in Canada, and of the necessity of establishing a fund for the sustenance of missionaries.
- March 8. A Capuchin speaks of a young man taken from Canada to Paris.
- April 27. Luigi Francesco of Paris writes on the question of jurisdiction over the missionaries of America.

- 1645,  
Oct. 25. A Capuchin prefect of missions in America writes of various missions there, and of the lack of interest in same. (French).
- 1647,  
May 3. The nuncio at Paris, on the promise of the provincial of the Capuchins to increase the mission of Father Pacifique de Provins in Canada.
- Nov. 2  
and 8. Letter from Father Pacifique, Nov. 2, and from the nuncio Nov. 8, on the embarkation of the former for Canada.
- 1646,  
Oct. 26. Father Pacifique on the missions of America.
- 1647 (?). French copy, and Italian translation, of a certificate of the King of France on the work of Father Pacifique in America.
- June 26. Father Pacifique de Provins on discoveries and missions in America, and reports to the Sacred Congregation on the same.
- 1639,  
July 18. State of the missions of the province of Paris. (Latin).
- 1662,  
June 10. Memorial on the missions of the Capuchin province of Paris.
- 1659-1672. Several letters relating to the Bishopric and missions in New France also to the pretensions of Abbé Queylus.
- 1630,  
Sept. 21. The nuncio at Brussels sends a relation of what he has found out about the Puritans who are transferring themselves to North America, and says that it would be possible to send French Capuchins to impede their progress.
- Enclosed with the above, "Descriptio Novae Angliae sive terrae recens [ter] inventae," which includes a reference to the activity of Lord Baltimore.
- 1635 circa. Relation of the provinces and convents of the Franciscans in the Indies, addressed to Cardinal Barberini, their protector.
1648. Father F. de Cohomiers of Chasteau suggests a method of making conversions in America.
- 1635,  
Jan. 19. Memorial for the use of the nuncios in France, to the end that heretics be not permitted to go to Canada.
1634. State of missions in Canada.
- 1639,. Relation of the progress of religion in Canada.
- Note of the missions of five Jesuit priests in Canada.
1644. A Capuchin priest speaks of the missions of Canada, and wishes to extend them to other regions of North America.
- 1650,  
March 1. "Relatio earum omnium quae gesta sunt per sex annos in Missione PP. Cappuccinorum apud Indos in America."
1650. Two Capuchins relate the progress made in the Western Indies, and request permission to return thither.
1650. Two Capuchins say that there is necessity of making missions in the islands of Marie Galante, Dominica, St. Vincent, etc. Of some general interest.
- The nuncio at Paris is requested to recommend to the Propaganda the continuance of the missions of the Capuchins in America.
- The nuncio at Paris sends information on the spiritual needs of the Christians of "America Occidentalis."
- 1652,  
Aug. 30. Proposition of the Duc de Ventadour, to erect in France a seminary for the service of the missions of America. Translation.
- 1651,  
Nov. 3. Do do French Original.
- 1651,  
Nov. 3. Letters from the Duc de Ventadour, on the said seminary, of Nov. 3, 1651, April 19, 1652, and three without date.
- 1652,  
April 19. The procurator general of the Capuchins, at the instance of the Queen of England, petitions the Sacred Congregation to concede *facoltà* to the



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provincial of Paris to institute a mission in New England, called also Virginia, for the conversion of those souls.

## SCRITTURE RIFERITE.

1681,  
March.

Port Louis. The Bishop of Heliopolis sends a relation.

On the request of Brother Bartholommeo, Capuchin, to go as missionary to Canada.

## CANADA, NUOVA BRETTAGNA.

1792-1830.

Series of letters relating to the church in Canada, Virginia, Louisiana, and Mexico.

## AMERICA CENTRALE.

1765 (?)

## Parts I &amp; II.

Copy of a "Mémoire abrégé sur les Missions de la Colonie Jésuite, cy devant composé par le P. Philbert François Watrin, Jésuite, cy devant Missionnaire à Louisiane."

"Memoria circa la Pretensione dei Francescani sulla Prefettura nell' America Settentrionale."

## MEMORIALI.

On the distribution of provinces.

Description of Capuchin missions.

## MISSIONI, DAL 1646 AL 1707.

1631,  
Feb. 3.  
1633,  
July 19.

On the mission of the Capuchins in New England.

"Postulata ad sacram Congregationem de Propaganda Fide, pro incremento Missionis Capucinatorum in partibus Orientis, atque etiam in Anglia, et Nova Francia: Itaque dubia quaedam declaranda.

From the provincial of the Recollets of Paris, for the better ordering of missions in Canada.

1641.

From the Capuchins of Paris, on the sending of a priest and twelve laymen to Canada.

1641.

From the procurator-general of the Capuchins asking facoltà for missionaries in Canada.

1642.

Memorial for the general improvement of Capuchin missions.

1648.

Petition from the Jesuits in Canada for transferable facoltà.

1666-1808.

Letters relating to the creation of dioceses in Canada, nomination of a Bishop for Quebec, demands of the English government, suppression of ancient chapel founded by Spanish Catholics at Kingston, division of dioceses in America, etc., etc.

## SCRIPTA VARIA.

1622,

"De Cura Animarum in Novo Orbe, commissa Religiosis Ordinibus Mendicantium a Sede App<sup>ca</sup> media designation. Missione Regum Cath."

1610 (?)  
Oct. 12.

Letter from Father Petrus Braidus to Father Enemondus Massaus (Ennemond Massé), on certain ecclesiastical necessities for the Canadian mission.



## VATICAN ARCHIVES.

## VARIA POLITICORUM.

"Relatione Intitolate di Commentairii dell' attioni del Regno di Francia concerniti la Relegione," from 1556, f. 158 mentions Huguenot preachers in America.

Relation of Spain by Sig. Dominico Zane, Venetian ambassador, 1662. Refers to the effects of English naval supremacy on the Indies, but only briefly.

## NUNZIATURE DIVERSE, ARM III.

- 1627-1634,  
1634-1637. First numbers, instructions to the Archbishops of Conza (Lagonissa) and of Thebes (Falconieri), nuncios to Flanders in 1627-1634, 1634-1637. ff. 1507-1548, relation of France by Mons. Scotti. See p. 213.
1633. Miscellaneous documents relating to France and Spain.  
Correspondence of Mons. Cena, nuncio in France.  
Miscellaneous documents relating to various congregations.

## NUNZIATURA DI FRANCIA.

- 1608,  
March 4.  
March 27: Nuncio writes of a fleet of 12 vessels, apparently French, to sail for the Western Indies; will inform the Spaniards.  
Jesuits sail to Canada with the first fleet.
- 1610,  
Oct. 29. Queen aids Jesuits in the mission to Canada, called New France. Request made for privileges similar to those granted to missionaries engaged in Peru and other Indies.
1665. "Memoire du chevalier Dening [Downing] anvoyes extraordinaire Du Roy de la grande Bretagne présenté à Monsieur les estat Généraux Des provinces unie Du pais Bas."  
French company of the Western Indies, and the war between England and Holland.  
Capture of St. Eustatius by the English.  
News of the progress of the War in the West Indies.
- 1666,  
April 12.  
June 1.  
June 15.  
June 29. Relation by the English ambassador in France "de ce qui se passa à mon audience de Congé."
- 1665,  
Dec. 26. English lose vessels in an attack on Quebec.
- 1691,  
Jan. 22.  
Sept. 3. Nuncio, on the motives of the Bishop of Quebec in delaying his return to his see. Mention of instructions on same subject, dated Aug. 7, 1691.
- 1693,  
Dec. 9. Ciphers from the nuncio, on the terms of peace proposed by the King of France, "l'occupata nell'America."  
Cipher from the nuncio, on same subject as preceding.  
Instructions with regard to the general negotiations for peace.
- 1661,  
Oct. 6.  
1762,  
Jan. 2. Instructions to recommend to the King, Marchese Francesco Albergati of Bologna, because of his services in Canada.
- 1779,  
Sept. 22. To the nuncio: "le notizie ch'Ella prosequa a darimi di quanto va' accaduto non meno in Europa che in America tra le armate navale delle Potenze Belligerenti si sono vedute con piacere, come con, gradimento."

## SESSIONAL PAPER No. 15

- 1748,  
Feb. 12.  
Feb. 19.  
May 6.  
Oct. 28.      Ciphers from the nuncio on the capture of Cape Breton, the commerce of America, and the peace.
- 1754,  
Nov. 18.      Cipher from the nuncio, on the capture of Cape Breton, and the peace.
- 1755,  
April 28.  
May 12.  
19, 26.  
June 9, 23.  
April 7, 21.      On the meeting of the commissioners of England and France, with regard to American boundary line, expressing good wishes for their success.
- 1755,  
April 28.  
May 12.  
19, 26.  
June 9, 23.  
April 7, 21.      News and conjectures with regard to the equipment of French and English fleets.
- Jan. 6.  
Feb. 3, 17, 24.  
1760,  
Oct. 20.      Discussions by the nuncio as to the questions of peace and war.
- Jan. 6.  
Feb. 3, 17, 24.  
1760,  
Oct. 20.      News of the preparations made in America for the War between France and England.
- 1760,  
Oct. 20.      News of the fall of Canada on Sept. 8.

## NUNZIATURA. DI FIANDRA.

- 1760,  
July 1.      The attempt of Vaudreuil on Quebec.
- 1761,  
Jan. 20.  
June 23  
July 13.      There is a great amount of news from all the American colonies, with reference to war, trade, and Indian affairs, but practically no discussion or comment by the nuncio.
- 1762,  
Jan. 5.  
Nov. 9.  
April 6.  
July 13  
July 21.  
Aug. 17.  
Sept. 14.  
Nov. 30.  
1763,  
Jan. 11  
and 18.  
Feb. 22.  
March 22.  
Nov. 1.  
Nov. 8.  
Nov. 22.      Discussion on the obstacles to peace.
- 1761,  
Jan. 20.  
June 23  
July 13.      Discussion of the cession of Canada.
- 1762,  
Jan. 5.  
Nov. 9.  
April 6.  
July 13  
July 21.  
Aug. 17.  
Sept. 14.  
Nov. 30.  
1763,  
Jan. 11  
and 18.  
Feb. 22.  
March 22.  
Nov. 1.  
Nov. 8.  
Nov. 22.      Criticism of a French historical memoir on the recent peace negotiation.
- 1762,  
Jan. 5.  
Nov. 9.  
April 6.  
July 13  
July 21.  
Aug. 17.  
Sept. 14.  
Nov. 30.  
1763,  
Jan. 11  
and 18.  
Feb. 22.  
March 22.  
Nov. 1.  
Nov. 8.  
Nov. 22.      This volume and the two following contain regularly letters from England, apparently translations from some gazette; sometimes, also, similar letters from Holland. The letters of the nuncio contain comments on the news which are often based on more general information.
- 1762,  
Jan. 5.  
Nov. 9.  
April 6.  
July 13  
July 21.  
Aug. 17.  
Sept. 14.  
Nov. 30.  
1763,  
Jan. 11  
and 18.  
Feb. 22.  
March 22.  
Nov. 1.  
Nov. 8.  
Nov. 22.      On the Creeks in South Carolina. News.
- 1762,  
Jan. 5.  
Nov. 9.  
April 6.  
July 13  
July 21.  
Aug. 17.  
Sept. 14.  
Nov. 30.  
1763,  
Jan. 11  
and 18.  
Feb. 22.  
March 22.  
Nov. 1.  
Nov. 8.  
Nov. 22.      On the peace with the Creeks in South Carolina. News.
- 1762,  
Jan. 5.  
Nov. 9.  
April 6.  
July 13  
July 21.  
Aug. 17.  
Sept. 14.  
Nov. 30.  
1763,  
Jan. 11  
and 18.  
Feb. 22.  
March 22.  
Nov. 1.  
Nov. 8.  
Nov. 22.      Effect of the English success in America on Dutch trade. Letter.
- 1762,  
Jan. 5.  
Nov. 9.  
April 6.  
July 13  
July 21.  
Aug. 17.  
Sept. 14.  
Nov. 30.  
1763,  
Jan. 11  
and 18.  
Feb. 22.  
March 22.  
Nov. 1.  
Nov. 8.  
Nov. 22.      Conduct and anticipated effects, of the expedition against Havana. Letter.
- 1762,  
Jan. 5.  
Nov. 9.  
April 6.  
July 13  
July 21.  
Aug. 17.  
Sept. 14.  
Nov. 30.  
1763,  
Jan. 11  
and 18.  
Feb. 22.  
March 22.  
Nov. 1.  
Nov. 8.  
Nov. 22.      On the Cherokees. News.
- 1762,  
Jan. 5.  
Nov. 9.  
April 6.  
July 13  
July 21.  
Aug. 17.  
Sept. 14.  
Nov. 30.  
1763,  
Jan. 11  
and 18.  
Feb. 22.  
March 22.  
Nov. 1.  
Nov. 8.  
Nov. 22.      Effects of the capture of Newfoundland. Letter.
- 1762,  
Jan. 5.  
Nov. 9.  
April 6.  
July 13  
July 21.  
Aug. 17.  
Sept. 14.  
Nov. 30.  
1763,  
Jan. 11  
and 18.  
Feb. 22.  
March 22.  
Nov. 1.  
Nov. 8.  
Nov. 22.      23 Letters, and Nov. 9. News. On the proposed terms of peace.
- 1762,  
Jan. 5.  
Nov. 9.  
April 6.  
July 13  
July 21.  
Aug. 17.  
Sept. 14.  
Nov. 30.  
1763,  
Jan. 11  
and 18.  
Feb. 22.  
March 22.  
Nov. 1.  
Nov. 8.  
Nov. 22.      On the cession to England of a portion of Louisiana. Letter.
- 1762,  
Jan. 5.  
Nov. 9.  
April 6.  
July 13  
July 21.  
Aug. 17.  
Sept. 14.  
Nov. 30.  
1763,  
Jan. 11  
and 18.  
Feb. 22.  
March 22.  
Nov. 1.  
Nov. 8.  
Nov. 22.      On differences with reference to the evacuation of places in America. Letter.
- 1762,  
Jan. 5.  
Nov. 9.  
April 6.  
July 13  
July 21.  
Aug. 17.  
Sept. 14.  
Nov. 30.  
1763,  
Jan. 11  
and 18.  
Feb. 22.  
March 22.  
Nov. 1.  
Nov. 8.  
Nov. 22.      Trouble in Cuba between the Captain-general, the Earl of Albemarle, and the bishop. News.
- 1762,  
Jan. 5.  
Nov. 9.  
April 6.  
July 13  
July 21.  
Aug. 17.  
Sept. 14.  
Nov. 30.  
1763,  
Jan. 11  
and 18.  
Feb. 22.  
March 22.  
Nov. 1.  
Nov. 8.  
Nov. 22.      Military estimates, and troops for North Carolina.
- 1762,  
Jan. 5.  
Nov. 9.  
April 6.  
July 13  
July 21.  
Aug. 17.  
Sept. 14.  
Nov. 30.  
1763,  
Jan. 11  
and 18.  
Feb. 22.  
March 22.  
Nov. 1.  
Nov. 8.  
Nov. 22.      Parliament discusses plans for the American conquests, and fleets depart for the Banks and the Gulf of Florida. News.
- 1762,  
Jan. 5.  
Nov. 9.  
April 6.  
July 13  
July 21.  
Aug. 17.  
Sept. 14.  
Nov. 30.  
1763,  
Jan. 11  
and 18.  
Feb. 22.  
March 22.  
Nov. 1.  
Nov. 8.  
Nov. 22.      Activity of the Indians of Acadia. News.
- 1762,  
Jan. 5.  
Nov. 9.  
April 6.  
July 13  
July 21.  
Aug. 17.  
Sept. 14.  
Nov. 30.  
1763,  
Jan. 11  
and 18.  
Feb. 22.  
March 22.  
Nov. 1.  
Nov. 8.  
Nov. 22.      St. Pierre and the fishing on the Banks. Discontent in New York. Plans for a new colony. The Acadians in South Carolina and Georgia. The Creeks. News.

## NUNZIATURA D'INGHILTERRA.

Copy of petition addressed to the Congregation of the Propaganda, requesting facoltà for the missionaries of Maryland.

2 GEORGE V., A. 1912

- 1657,  
June 21. On the raising of treasure from the sunken Spanish galleon. (Sir William Phips?).
- Aug. 15. On the negotiation between England and Spain with regard to English privateers in America.
- Dec. 12. On the differences between England and France with regard to Hudson's Bay.

## LETTERE DEI CARDINALI.

- "Spedizioni dal Cardinal Barberini al Nuncio de Francia."
- "Lettere dai Cardinali al Cardinale Barberini sotto Urbano VIII."

## COLLECTION OF CLEMENT XI.

- 1715,  
April 11. Reports of proceedings of Parliament on the treaty of commerce with Spain, and concerning Nova Scotia, Newfoundland, Cape Breton, etc. 1 f. French.
- 1643-1654. Correspondence between the secretary of state and the nuncio in France.

## BIBLIOTECA PIO.

- Relation of France by Venetian ambassador, 1658, with mention of France and Cromwell in the Indies.

## VATICAN LIBRARY.

## BARBERINI LIBRARY.

Ludovico ——— to Innocent XII., proposing that the world be divided into twelve apostolic provinces, each with a procurator at Rome. Maps were enclosed, but are missing. There were to be two procurators for America.

Instructions to the nuncio in France on his relations with the Congregation of the Propaganda in France, and that at Rome. No date or name. Time, Gregory XV.

## OTTOBONIAN COLLECTION.

Copy of a brief of Clement X., prohibiting the publication of books on missions without the approval of the Propaganda.

1673,  
March 20. Letter of Mgr. Cerri on the same subject.

Copy of decree of the Propaganda on the same subject.

1673,  
March 1.

On the Capuchin missions.

On the missions of the French Capuchins.

## SEARCHES.

An important branch of the work in the Manuscripts Division consists of making searches for inquirers. Over 3,500 volumes were taken from the Manuscript room during the year to be consulted. Many of the inquiries involve considerable research. Amongst the subjects of inquiry were the following:

The history of Missisquoi County, the Seigniories of Foucault, Noyan, Levasseur, St-Armand and the Township of Danham.

The early history of Canso and Guysboro.

The participation of the Eastern Townships Militia in the War of 1812-15.

The Settlement of French Huguenots in Canada.

Militia of Baie-du-Febvre and Nicolet.

The Rideau Canal.

The Upper Canada Land Company.

American prisoners at Quebec, during War 1812-15.

Burying Grounds for Emigrants in Montreal, in 1847.

Military Bounties granted for services in the Red River Expedition.

The Paper Money in Canada.

The Courts of Requests of Lower Canada.

The diversion of the waters of some tributaries of St. John River by American Citizens, 1841.

The battle of Châteauguay; the death of Jumonville.

Petitions to the Duke of Richmond while Governor of Canada.

The Censuses of Canada.

Reciprocity with the U.S.A.

The Walker Outrage, Montreal, 1765.

Distribution of the Troops at Kingston, Prescott and other points in 1812.

The change of level along the St. Lawrence and Gulf in historic times.

British Soldiers who enlisted in Canada or in the British Isles and came over to Canada, between 1800 and 1854.

Whereabouts of the Black Watch Regiment from 1756 to 1758.

Rebels court-martialed and executed in London, Ont., in 1838.

Political prisoners transported to Van Dieman's land, 1838.

Rebel prisoners who died in the hospitals at Quebec, in 1775-1776.

Contracts between the French King and Nicolas Oudiette, farmer of the Revenue.

The old cemetery on Burlington Heights, also known as Lundy's Lane Cemetery.

The Seignior of Isle Verte, from its first concession to 1829.

Address sent to Sr. de La Balme by the inhabitants of the Post of Vincennes, 1780.

The history of London, Ont.

Establishment of the Religieuses Hospitalières at Montreal.

Trial of Allen McLean, 1797.

The Madawaska Settlement, 1790; the Sovey Settlement, 1784; the Aroostook Country.

The early history of Muskoka.

The early history of Dundas.

The Fort of Beauséjour and the Canadian Troops sent there.

Missionaries in Acadia and St. Pierre et Miquelon.

Uniforms worn by Militiamen during the War of 1812-15.

The old French Custom House in Gaspé Basin, said to have been occupied by Wolfe, in 1758.

Regiments present at the Battle of Carillon.

The Cheyenne tribe of Indians.

2 GEORGE V., A. 1912

The pretensions of the British Crown to any part of the Country drained by the Missouri River, or the Red River of the North.

Instructions given to the Census Commissioner in 1851.

Rev. Mr. Davenport Phelps and his work among the Indians; history of the Township of Grimsby.

The Annexation Manifesto of 1849.

North-West Rebellion, 1885.

Count De Puisaye and the settlement of French Royalists in Upper Canada, in 1792.

Dispute between the Chief of the Six Nation Indians in Upper Canada and the Superintendent of Indian Affairs.

The Seigniory of Sault St. Louis.

The evacuation of the posts on Lake Champlain, after the War of Independence.

Information was also furnished to a large number of applicants in answer to questions concerning relatives who had emigrated to this country. Most of these emigrants belonged to the army.

#### CARDS TYPEWRITTEN SINCE THE LAST REPORT.

The cards typewritten, examined, classified and placed in their respective drawers since the last report, number, for the manuscript division, 81,104, being nearly double the number of the previous year. They are divided as follows:—

C. Series.. . . .	19,840
G. Series.. . . .	77
M. Series.. . . .	2,385
S. Series.. . . .	58,392
Miscellaneous.. . . .	410
	<hr/>
	81,104

In addition to the above, over 10,000 cards of the library catalogue were typewritten by employees of my division.

Much progress has been done in the work on the index of the documents relating to the War of 1812-15. Out of 244 volumes and portfolios concerning this important historical event, 75 are now fully indexed on cards.

The total number of books and portfolios fully indexed on cards is now 845. Another important item of work done in this branch is the transcription of documents. Over 400,000 words were copied by hand, or typewritten, both for the Archives and for the public.

A detailed catalogue of the M. Series is in course of preparation.



## SESSIONAL PAPER No. 15

PLANS, MAPS AND CHARTS, RECEIVED IN THE MAP ROOM OF THE ARCHIVES  
DURING THE FISCAL YEAR ENDING MARCH 31, 1911.

Date.	No. of Plans.	Title.	From whom received.
1910.			
Apr. 1..	1	Harbour of Montreal, Kennedy .....	J. Aubé.
" 18..	1	Map of Arctic Explorations .....	"
" 18..	1	Map of British Provinces in North America.....	"
" 18..	1	Plan of Ship Channel St. Lawrence .....	"
" 21..	1	Manitoba, Saskatchewan & Alberta, Lands.....	Interior.
" 28..	1	Nova Scotia, McKinley's Map, 1867.....	J. Aubé.
" 28..	1	Railway Map of Canada, 1907 .....	"
" 29..	1	Geo. Sur. No. 775 Sudbury Mining Region .....	Library.
" 29..	1	" 820 .....	"
" 29..	1	" 824 Copper Cliff and Vicinity.....	"
" 29..	1	" 825 .....	"
" 29..	1	" 864 Elsie and Murray Mines.....	"
" 29..	3	" with report of 1905.. ..	"
" 29..	8	" Cascade Coal Basin Alberta.....	"
" 29..	6	" Topographical Surveys 1906-7.....	"
" 29..	11	" " 1907-8 (2 sets).....	"
" 29..	9	" Geology of Canada, 1863.....	"
" 29..	12	" Cartes attachées au rapport, 1888-9.....	"
" 29..	7	" " " 1894.....	"
" 29..	4	" " " 1895.....	"
" 29..	4	" " " 1897.....	"
" 29..	3	" " " 1898.....	"
" 29..	8	" " " 1899.....	"
" 29..	13	" " " 1887-8.....	"
" 29..	7	" " " 1886 (2 sets).....	"
" 29..	4	" Report on Altitudes 1901.....	"
" 29..	3	" Nova Scotia Survey, 1900 .....	"
" 29..	5	" Maps with Annual Report, 1890-1.....	"
" 29..	8	" " " 1900.....	"
" 29..	4	" " " 1877-8 .....	"
" 29..	4	" " " 1879-80.....	"
" 29..	9	" " " 1880-2 .....	"
" 29..	4	" " " 1882-4 .....	"
" 29..	7	" " " 1885.....	"
" 29..	26	" " " 1901.....	"
" 29..	21	" " " 1902-3.....	"
" 29..	14	" " " 1904.....	"
" 29..	22	" Plans des lacs et rivières, entre le lac Huron et la rivière des Outaouais, 1853 (2 sets).....	"
" 29..	8	" Maps with C. L. D. report, 1857.....	"
" 29..	1	" Plan of Western Canada .....	"
May 3..	1	" Map of America Septentrionale.....	Dr. Doughty.
" 4..	2	" Maps department of Trade.....	Board of Trade.
" 9..	1	" Gowganda Mining Division.....	Department of Mines.
" 9..	1	" Sheets Island Channel (2 copies) .....	Railways and Canals.
" 9..	2	" Cornwall Canal.....	"
" 9..	3	" Yukon District B.C.....	"
" 9..	1	" Province of Ontario 1887 official.....	Bergin Papers.
" 9..	1	" United States, 1883.....	"
June 4..	1	" Plan du Fort Pontchartrain (Labrador).....	H. P. Biggar.
" 14..	4	" Plans of Simcoe's Tour.....	"
" 14..	1	" Upper Canada div'd into Counties, Chewett.....	"
" 28..	1	" Fort Erie, Romilly.....	"C" Series.
July 6..	1	" Iron Crown Claim, Kilauea River, B.C.....	Distn. Office.
" 6..	1	" Huron & Ottawa Territory, 1861.....	Public Works.
" 6..	1	" North Shore of Lake Huron, 1862.....	"
" 6..	1	" Saguenay Territory.....	"
" 6..	1	" Plan of St. Maurice Territory, 1862.....	"
" 6..	1	" Terrebonne, Two Mountains & Argenteuil, 1862 .....	"
" 6..	1	" Counties of Ottawa and Pontiac, 1862.....	"
" 6..	1	" District of Gaspé, and Co. of Rimouski, 1861.....	"
" 6..	1	" Lower Canada, Taché Road, 1861.....	"
" 6..	1	" Eastern Townships, Lower Canada, 1861 .....	"
" 6..	4	" (92 sets) Plans Telegraph and Signal Service 1883.....	"
" 6..	1	" Map of the World Cables, (2 copies) .....	"
" 6..	1	" Carte Régionale de prov. de la Québec, Gaspé, &c.....	"

Date.	No. of Plans.	Title.	From whom received.
1910.			
July 18..	1	Map of Saskatchewan.....	Distribution Office.
" 23..	1	American Lakes and adjoining country .....	Dr. Doughty.
" 23..	1	Straits of St. Mary and Michilimackinac .....	"
" 23..	1	Plan of Island of St. John, Capt. Holland.....	"
Aug. 26..	1	Faden's Upper Canada, 1813, 2nd Edition .....	H. P. Biggar.
" 26..	1	" " 1818 " .....	"
Sept. 26..	1	Elevators in Saskatchewan, Alberta, &c.....	Interior.
" 26..	3	Maps, Upper and Lower Canada, boundary .....	M. & D.
" 26..	1	" " " .....	"
" 17..	17	Book of Plans of Barracks in New Brunswick.....	"
" 15..	1	Borough of Braadock, T. J. Graham .....	B. Sulte.
Oct. 6..	1	Cereal Map of Northwest .....	Interior.
" 7..	1	Corrected Plan of Country S. of St. Lawrence, Bouchette.....	H. P. Biggar.
" 7..	1	Harbour of Toronto, Aitkins .....	"
" 7..	1	Map of Nova Scotia and P. E. I .....	Library.
" 7..	8	Maps of Canada, C.L.D. 1857 .....	"
" 13..	34	Maps in Senex Atlas.....	H. P. Biggar.
" 13..	1	Upper Canada, Wyld 1825 .....	"
" 13..	1	Lower Canada, Faden, 1825 .....	"
" 13..	62	Maps, Minor Atlas, Hermann Moll, 1746 .....	"
" 13..	22	North American Pilot, First Part 1798 .....	"
" 13..	33	British American Land Company Plans, 1835 .....	"
" 13..	99	Diagrams of Townships in U.C. C.C. Vol. I .....	"
" 13..	104	" " II .....	"
" 22..	1	Map (in duplicate) City of Montreal .....	Library.
" 22..	66	Maps as list from Department of Interior .....	Interior.
" 22..	20	" " Militia and Defence .....	M. & D.
Dec. 5..	1	Capt. Carver's Travels in North America .....	Peter's Papers.
" 5..	1	Missisquoi Frontier, Col. Wolseley .....	"
" 5..	1	Intended Purchase District of Johnstown.....	"G" Series.
" 5..	1	Cook's Bay on Lake Simcoe .....	"
" 5..	1	Tract purchased from Mississauga Indians .....	"
" 5..	1	Military Post at Amherstburg .....	"
" 5..	1	Tract purchased from Mississagua Indians.....	"
" 5..	1	Plan of situation at Fort Erie.....	"
" 5..	1	Locks at Mill Rapids and Cascades .....	"
" 5..	1	Barnhardt's Island.....	"
" 9..	1	Septentrionaliora Americoe.....	Hon. R. Lemieux.
" 10..	2	Pentagoet 1670-1907 .....	C. H. Noyes.
" 29..	1	I.C.R. Exploration Surveys, General Map.....	Library.
" 31..	85	Atlas or Collection of old maps 1650-1735 .....	H. P. Biggar, Paris.
" 31..	1	Plan du fort de Pentagoet, 1670 .....	"
" 31..	1	" " " .....	"
" 31..	1	Fort St. Joseph sur la Riv. St. Jean, 1692 .....	"
" 31..	1	Plan et venue du Fort St. Joseph 1692 .....	"
" 31..	1	Plan du fort de La Rivière St. Jean, 1700 .....	"
" 31..	1	" " 1754 .....	"
" 31..	1	Carte particuliere de l'isthme de l'Acadie n.d.....	"
" 31..	1	Carte du fond de la Baye Française, 1751 .....	"
" 31..	1	Plan du Fort de la Pointe a Beau-Se-jour, 1751 .....	"
" 31..	1	" " " .....	"
" 31..	1	Corps de Caserne du Fort de Beausejour, 1754.....	"
" 31..	1	Plan du Fort situé sur la pointe des Gaspereaux.....	"
" 31..	1	Plan de la maison nouvelle de Seminaire, 1684.....	Archives Nat.
" 31..	1	Maison de Montréal, 1661 .....	"
" 31..	1	Montréal en Canada, 1661 .....	"
" 31..	1	Separate reference (maps of references unattached).....	"
" 31..	1	Le batiment du Montréal, 1684 .....	"
" 31..	1	Part of Louisiane, 1700 .....	"
" 31..	1	" " " .....	"
" 31..	1	Plan du terrain occupé par les concessions de MM. les Marquis de Mezieres et Des Marche au nouene biloxi a la Louisiane.....	"
" 9..	1	Fort de Carillon .....	Bib. Nat.
" 11..	1	Pays de Normandie, 1620 .....	Dr. Doughty.
Feb. 28..	1	Plan of Timber Limits of Upper Ottawa .....	A. Charest.
Mar. 17..	2	Plans of Canada, photos of old maps .....	S. E. Dawson, LL.D.
" 17..	1	Juan de la Cosa's map, 1500 .....	"
" 17..	187	Maps from Public Works, as per list .....	P. W.

## SESSIONAL PAPER No. 15

Date.	No. of Plans.	Title.	From whom received
" 17..	13	Charts of Hudson Bay Isotherms.....	Library.
" 17..	1	McNiff's survey of the Ottawa, 1786.....	Mr. McLellan, K.C.
" 25..	176	Plans, etc., as per list.....	Public Works.
" 31..		Montcalm's Plan, Lake Champlain district.....	Dr. Doughty.
" 31..		Map showing disposition of lands in Alberta, Saskatchewan and Manitoba, 1911.....	Interior.
In all 983 plans, maps, etc., have been received during the fiscal year ending March 31, 1911.			

## PLANS, MAPS AND CHARTS RECEIVED FROM THE DEPARTMENT OF PUBLIC WORKS, 25TH MARCH, 1911.

Date.	No. of Plans.	Title.	From whom received.
1841		Book, "Plans and Charts Dominion of Canada, Boundary" Index Map of Lower Canada, showing division into Districts &c.....	J. Bouchette.
n.d.		Rainy River to Lake Superior, Untitled.....	n.s.
n.d.		St. George's & West Neebish Islands.....	D. Thompson.
n.d.		Southern Boundary of Province of Canada, according to Proclamation, 1763 and Act of 1774. Map A.....	n.s.
		Map of part of Canada and New Brunswick, re boundary. Map C.....	n.s.
n.d.		Western boundary of New Brunswick. Map 'C'.....	n.s.
n.d.		Lands granted by authority of New Brunswick, west of St. Croix and north of commissioner's line Map 'D'.....	n.s.
n.d.		Lots of land south of Restigouche river granted to S. Lee and others Map 'F'.....	n.s.
n.d.		Copy of St. George and W. Neebish Islds, (above).....	D. Thompson.
1826		Arrow Lake to Lake Superior, No. 2 Commission Map.....	D. Thompson.
1826		Rainy Lake to Crooked Lake No. 4 do.....	D. Thompson.
1826		Crooked Lake to Gun Flint Lake No. 3 do.....	D. Thompson.
1842		Province of New Brunswick re Disputed Territory.....	J. S. Saunders.
1840		Stone Indian River to St. Mary's River boundary St. Lawrence and C Lake Champlain Canal, 2 books French duplicates of Book 75.....	D. Thompson.
1850		By-town, Chaudière Islands, showing water power.....	H. Merrill.
1852		Bytown, Chaudière showing building and water lots.....	D. Sinclair.
1878	19	Red Head Battery, St. John.....	n.s.
1878	30	Carleton, N.B.....	n.s.
1878	152	Red Head, St. John, N.B.....	n.s.
1836	156	Lake Huron to Bay of Quinte, water communication.....	F. P. Rubidge for H. N. Baird add by Baillairgé 1866.
1836	172	Plan of Richibucto Bar.....	n.s.
1855	172	Richibucto Harbour, showing ice.....	John Grant.
1855	172	do Bar at mouth of, showing ice.....	do
1854	172	do do in summer of 1854.....	do
1854	172	do showing site of proposed dam at Gully.....	do
1850	173	Grand Falls on St. John River from survey by Grant.....	T. C. Keefer.
1832	178	Bytown, Ottawa River, from British Dominion in N.A.....	J. Bouchette.
1835	192	Richibucto and Salmon Rivers, projected communication.....	W. J. Layton.
1861	310	Two Creeks on Lake Erie.....	F. A. Wise.
1784	325	St. John's Harbour (copy of map in Archives).....	R. Morse.
1843	368	Riv. Moira at Belleville, plan of bridge, 2 copies one signed by contractors ..	F. P. Rubidge.

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Date.	No. of Plans.	Title.	From whom received.
1862	363	Summit between Nippissingue and Trout Lakes.....	Copy.
1842	368½	Rouge Hill, Ont. Plan and sections of new road 2 sheets....	R. A. Maingy.
1842	370	Chatham Swing Bridge, plans and sections.....	n.s.
1845	382	Bridges over Ottawa River between Hull and Bytown..	J. F. McDonald.
1849	386	Bridge over the Rideau River near its mouth (Bytown) 2 sheets.....	A. J. Russell.
1840	388	Road from London to St. Thomas.....	n.s.
1840	389	London and Port Stanley plank road.....	n.s.
1840	391	London and Chatham road, estimate plan.....	n.s.
1840	393	Brantford and Hamilton road plan and section.....	n.s.
1845	399	Mountain section Hamilton and Dover road (4 sheets)....	W. M. Shaw.
1845	400	Dover Road showing toll gates (2 sheets).....	"
1845	401	Windsor Harbour and Lake Sengog Road.....	n.s.
1842	406	Proposed routes Woodstock and London plank road (2 sheets)	W. M. Shaw.
1842	407	Twelve Mile Creek Sections.....	n.s.
1842	408	Survey and Sections of 16 Mile Creek (3 sheets).....	n.s.
1848	409	The Esk Creek, plan of bridge.....	Robert Wells.
1848	418	Ottawa River bank from Hawkesbury to Pointe Fortune...	n.s.
1848	420	Port Stanley Road, London to Lake Erie.....	n.s.
1843	421	Road from the Narrows to Coldwater, Lake Simcoe.....	W. Hawkens.
1842	429	Port Burwell Road, Profile.....	P. Carroll.
1842	431	Markham Road section Kingston Road to Markham.....	D. Thorburn & F. Hall.
1842	434	Road from Brantford to Ancaster township.....	n.s.
1842	435	Road from Five Stakes to St. Thomas.....	n.s.
1846	436	Road on north side of Pond, Orford Mountain, Bolton.....	P. Wells.
1846	437	Simcoe Dist. Road Barrie to Nottawasaga.....	n.s.
1846	438	Road Donnel's Tavern to Penetanguishene.....	John Ryan.
1846	440	Road from Dundas to Owen Sound.....	n.s.
1843	441	Road in Newcastle district.....	Jarvis Lyons.
1848	447	Prolongation du Chemin d'Arthabaska.....	F. L. Poudrier.
1845	458	Arthabaska Road, Orford Road to Kingsey, Thetford....	N. H. Baird.
1845	459	Missisquoi, Shefford and part of Stanstead and Rouville...	H. Corey.
1843	460	Plan of the Gosford Road.....	F. W. Blacklock.
1843	466	Profile, &c. High Falls and Rugged Chute, Madawaska...	n.s.
1846	467	Sketch of Rugged Chute and High Falls.....	n.s.
1845	470	Plan and profile Victoria Slide, Chats Rapids. (2 sheets)...	F. P. Rubidge.
1870	473	Plans of booms, &c. Little Chaudière Falls to Des Chenes Rapids.....	n.s.
1870	486	Ottawa River from Goulds Landing to Chats Lake.....	T. E. Norman.
1870	490	Village of Smiths Falls.....	n.s.
1858	492	Town plot of Owen Sound, County of Grey.....	Rankin & Spry.
1877	494	Huron and Wellington Counties.....	A. Macdougall.
1856	495	City of Hamilton, water supply report.....	T. C. Keefer.
1856	496	Town of London.....	n.s.
1856	500	Town of Gananoque, township of Leeds, district of Johnstown	W. H. Deane.
1856	501	Town Plot of Shrewsbury, Rondeau Bay, Dist. Western....	n.s.
1856	505	London, Brock, Talbot and part of Huron Districts.....	n.s.
1856	507	County of Carleton.....	n.s.
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1842	510	Part of the County of Frontenac.....	n.s.
1855	511	Plan of Croker Island, on St. Lawrence near Gananoque....	W. Wilson.
1853	513	Mouth of River Saugeen and environs O. S. & H. Ry.....	S. Fleming.
1840	514	Plan of By Town.....	A. Swallowell.
1855	515	Chart of Owen Sound. O. S. & H. Ry.....	S. Fleming.
	520	Map of the Huron Tract.....	D. McDonald.
1845	521	Plan and section of the Mississippi Snye (3 sheets).....	n.s.
1845	522	Line of communication between Amherstburg and Chatham	n.s.
1842	530	Lake St. Clair.....	n.s.
1842	531	Chart of the River St. Clair & environs at Port Sarnia....	n.s.
1847	532	Survey Coast at Pine Brook.....	n.s.
1847	535	River Credit at Springfield, Dundas Street.....	n.s.
1847	539	Sketch of the Bar in Lake George.....	S. Keefer.
		Soundings by.....	F. P. Rubidge.
1845	547	Levels in South Bay foot of Lac du (sic) Chats.....	n.s.
1845	554	Section of Lake St. Francis nr. Lancaster.....	W. W. O'Dwyer.
1856	561	Plan of proposed Harbour & Mouth of River au Sable (2 sheets) .....	Ridont & Schreiber.
1862	562	Government Reserve from Calumet Slides to Dargis Rapid .	W. A. Austin.



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1849	565	Port Dover Harbour.....	n.s.
1849	566	Port Dover.....	n.s.
1855	572	Mouth of the Saugeen River.....	A. G. Robinson.
1853	573	Mouth of River Saugeen and adjacent shore of Lake Huron O. S. & H. R. R. Survey.....	n.s.
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1858	584	Plan to accompany Report on pier at Pigeon Bay.....	n.s.
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1857	593	Town of Elgin, Johnston District.....	C. L. D.
1845	595	Contract Plan of the Victoria Slide at the Chats.....	James West.
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1844	608	Rondeau.....	n.s.
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1844	611	Entrance to Rondeau Harbour alterations in beach.....	n.s.
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1857	622	Entrance to Toronto Harbour.....	n.s.
1842	626	Port Hope Harbour.....	R. W. Smart.
1846	627	Port Hope Harbour and plan for a New Harbour.....	P. Fleming.
1846	628	Port Hope Harbour and plan for a New Harbour.....	do
1865	633	Whitby Harbour formerly called Windsor Harbour....	G. F. Baillairgé.
1862	634	Whitby Harbour.....	E. B. Temple.
1862	636	Harbour and part of Town of Port Stanley .....	D. Harvey.
1857	638	Port Stanley Harbour .....	n.s.
1840	640	Harbour and part of Town of Port Stanley .....	D. Harvey.
1850	641	Port Stanley Harbour.....	W. D. Hale.
1850	642	Port Stanley Harbour.....	n.s.
1843	.....	Town of Port Stanley (Town plot & College Lot).....	n.s.
1843	651	Big Head River, Township of St. Vincent .....	n.s.
1835	655	Cobourg Harbour and Proposed Improvements (2 sheets)....	S. Keefer.
1842	656	Cobourg Harbour, with Soundings by J. Lyons under (2 copies).....	N. H. Baird.
1828	672	Plans of Bridges over Thames at London.....	R. Creighton.
1867	678	Red Rock and Partridge Islands Lighthouse Reserves Georgian Bay.....	A. B. Perry.
1868	681	Harbour of Port Maitland and Broad Creek Branch of the Welland Canal.....	n.s.
1858	682	Port Dalhousie, wharfing, buildings and dredging.....	F. Shanley.
1885	704	City of Ottawa .....	R. Surtees.
1885	708	Marsh near Port Rowan as harbour of refuge, Lake Erie....	W. E. Sears.
1885	716	North Shore of Lake Huron, showing Indian Lands.....	C. L. D.
1868	768	Harbour of Port Stanley, Lake Erie.....	T. Munro.
1866	722	Division of MacKay estate, Ottawa.....	T. C. Keefer.
1866	791	Portsmouth Harbour and property adjacent.....	n.s.
1862	873	Counties of Ottawa and Pontiac showing colonist roads....	W. C. Chewett.
1857	793	Plan of subdivision of Indian Reserve at Cape Croker, Georgian Bay .....	n.s.
1834	912	Plan of Lands lately surveyed at Toronto Garrison .....	H. J. Castle.
1873	917	Part of Canada Ontario, Quebec, Maritime Provinces.....	T. Devine.
1873	950	Part of Chatham with soundings at McGregor's Creek....	J. W. Shackleton.
1879	1018	Country between Allanburgh and Port Dalhousie, showing route of Welland Canal.....	T. Munro.
1879	1020	Plans of Old and New Suspension bridges, Ottawa (3 plans)	Rousseau & Co.
1800	1023	Public Works reserve and Dawson Dock, Port Arthur.....	W. Murdock.
1858	1024	River Madawaska from Arnprior to lot 3, con II (2 copies)..	T. C. Norman.
1850	1120	Oakville.....	Ths. Pacey.
1899	1201	Midland Harbour.....	D. W. Fraser.
1788	1228	Plan of Toronto Harbour with proposed settlement.....	Gother Mann.
1834	1228	City of Toronto and Liberties, being Plans 1 and 3 respectively with Jennings and Roy's report on Toronto harbour improvements 1900.....	J. G. Chewett.



2 GEORGE V., A. 1912

## PLANS, MAPS AND CHARTS FROM INTERIOR DEPARTMENT, OCTOBER 22, 1910.

Date.	No. of Plans.	Title.	From whom received.
1826	AA 1	Plan of Proposed Canal, Kingston to the Ottawa.....	Chewett.
1827	AA 2	Proposed Canal Ottawa to Rideau River.....	By.
1827	AA 3	Plan of Dam and Locks at Long Island.....	"
1827	AA 4	" " Old Sly's Rapids.....	"
1827	AA 5	" " Black Rapids.....	"
1827	AA 6	" " Large Lock (4 plans).....	"
1828	AA 7	" " La Chine by John Burnett.....	"
1828	AA 8	" " Eight Lock (La Chine).....	"
1828	AA 9	" " Rideau Canal.....	"
1828	AA 10	Plan of Catarqui Creek, Kingston Mills to Brewer's Lower Mill by John Burrows.....	"
1828	AA 11	Plan of Catarqui Creek, Kingston Mills to Brewer's Lower Mill by John Burrows.....	"
1828	AA 12	Plan, &c., Canal Valley, Entrance Bay, Ottawa River.....	"
1828	AA 13	Plan, &c., Works for Rideau Canal at Long Island.....	"
1828	AA 14	" " Hog's Back.....	"
1828	AA 15	" " Dow's Great Swamp.....	"
1828	AA 16	Sections of Entrance Bay, Ottawa River.....	"
1827	AA 17	Sketch showing proposed line Rideau Canal, to Hog's Back from Ottawa River.....	"
1827	AA 18	No. 1 Genl. Plan Rideau Canal Kingston to Ottawa.....	"
1827	AA 19	Plan of Work, Rideau Canal, Oxford Snie, &c.....	"
1827	AA 20	" " Jack's Drifts, Beijdor's Drifts, and Brewer's Lower Mills.....	"
1827	AA 21	Plan of Work, Rideau Canal, Kingston Mills.....	"
1827	AA 22	" " Maitland's Rapids.....	"
1827	AA 23	" " Chaffer's Mills.....	"
1827	AA 24	" " Old Sly's, Phillips Bay and Edmonds.....	"
1827	AA 25	Plan of Work, Rideau Canal, Catarqui Creek.....	"
1827	AA 26	" " First Rapids, Sec. II.....	"
1827	AA 27	" " Smiths Falls.....	"
1827	AA 28	" " the Narrows, Rideau L.....	"
1827	AA 29	" " Merrick's Mills.....	"
1827	AA 30	" " Nicolson's & Clow's Quarry.....	"
1827	AA 31	" " Davis Mills.....	"
1827	AA 32	" " Jones Falls.....	"
1828	AA 41	Plan of North Bank of Ottawa or Grand River from Long Sault to Chute à Blondeau.....	E. C. Frome.
1828	AA 42	Ottawa River, Long Sault to Chaudiere Lake.....	"
1828	AA 43	The Carillon Rapids on the Ottawa River.....	"
1828	AA 44	Plan of River Ottawa, Grenville to La Chine.....	"
1828	AA 45	Sketch of the South Nation River.....	"
1828	B 35	Plans No. 1, 4, showing waters on route of Rideau Canal, (copy certified by Thos. Ridout).....	By. Durnford.
1831	BB 111	Plan for fortifying the Ottawa entrance to canal.....	"
1831	BB 112	Sections of proposed military works on west side of first eight locks, Rideau Canal.....	By. C. E. Ford.
1851	B 160	Rideau Canal, Brewers Upper Mills Bridge.....	By. J. B. Cochrane.
1830	G 349	Sections of Rideau Canal.....	By.
1851	B 160	Rideau Canal, Burritts Rapids Bridge.....	"
1827	G 310	Plan and elevation of bridge over Chaudiere Falls.....	"
1830	G 311	" " " " (J. Burrows).....	"
1828	G 311	" " " " (J. Burrows).....	"
1827	G 311a	Plan and elevation for barracks and hospital on hill.....	"
1830	G 349	Sections Rideau Canal (Estimate Plan).....	"
1842	RE 27	Plan of lands purchased, &c., for Rideau Canal.....	J. Burrows.
1842	RE 188	Plan of Rideau Canal, Sappers Bridge to Hartwells.....	"
1833	RE 36	Diagram of lots C D E, township of Nepean.....	D. Bolton.
1844	RE 48	Survey of the wooden lock and by-wash, By Town.....	"
1817	F 49	Plan of the Long Sault River Ottawa, No. 6.....	E. W. Durnford.
1817	F 49	Plan of the Carillon Rapids, River Ottawa, No. 7.....	"
1817	F 49	River Ottawa, Carillon Rapids to Long Sault, No. 8.....	"
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Date.	No. of Plans.	Title.	From whom received.
1788	No. 7	Plan of the entrance of the Detroit River.....	Gother Mann.
n.d.		Sketch of the Eastern Townships.....	G. L. Huysche.
1847	M 10	Right Bank of the Richelieu, St. John to Sorel.....	W. Lloyd.
1863	A	Military sketch of shore of Lake Ontario between Hamilton and Port Dalhousie ... ..	H. Malet.
1867	2	Niagara Frontier.....	Stothard & Price.
1870		Plan of Middlesex.....	H. Beckwith.
1865	R	Plan of County of Compton, Eastern Townships.....	G. L. S. M. Taylor.
1865	K	Map Montreal and St. Johns Railway.....	"
1863	I	Map of part of Stanstead and Compton Counties.....	C. W. Lloyd.
1876	751	Frontier of Military district No. 5.....	J. Fletcher.
1876	292	Military district No. 5.....	T. Bacon.
1876	293	Military district No. 6.....	A. C. de L. Harwood.
1878	289	Military district No. 10 in four parts. Principal communi- cations in Canada West in twelve sections.....	B. de Rottenburg.
1828	A 11	St. Lawrence between Kingston and Montreal, Lake St. Peter, and frontier towards Champlain .....	Ofs. R. E.
1867	L	Island of Montreal and Isle Jesus and part of the line of communication with Carillon.....	H. Warren.

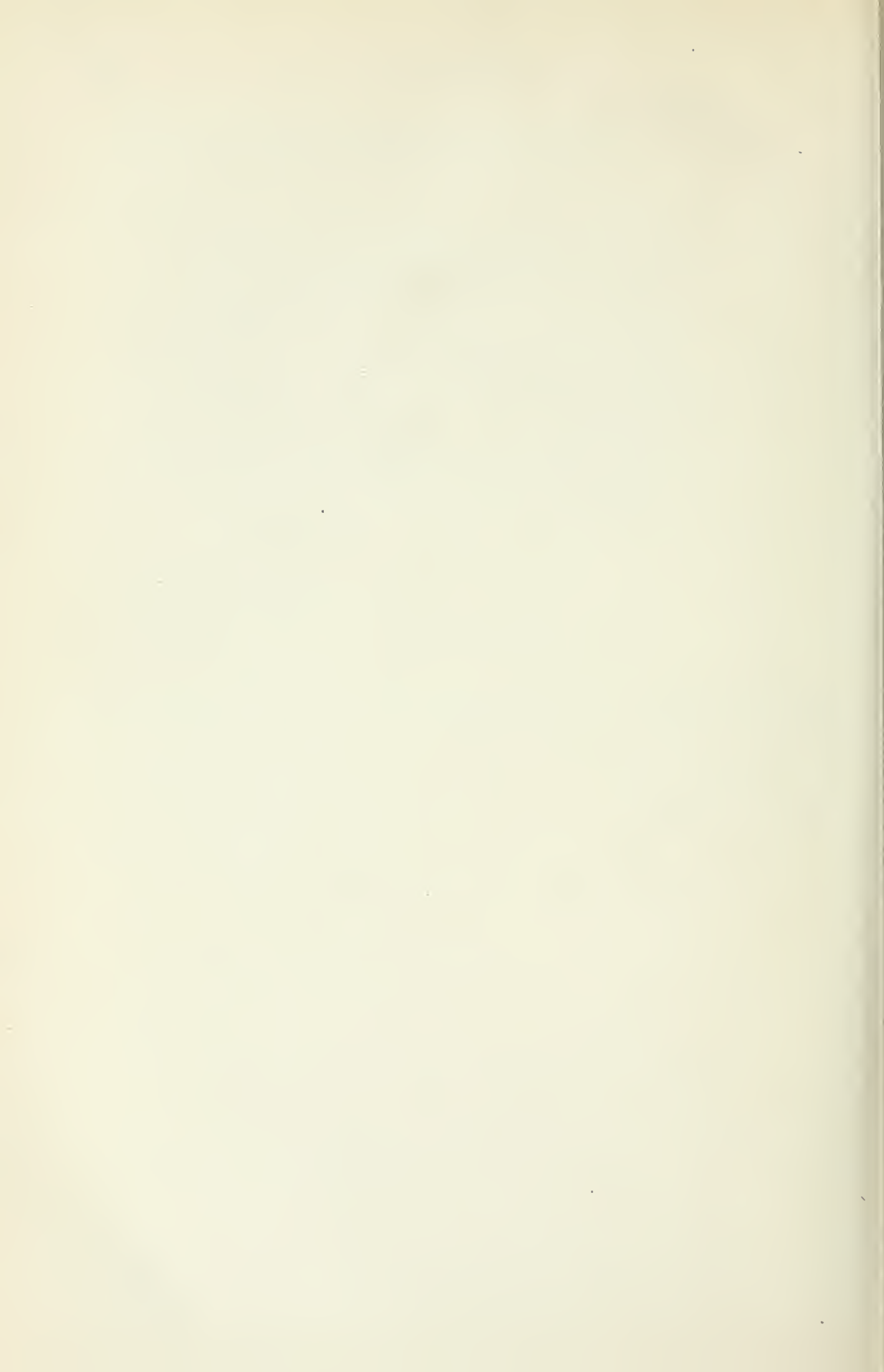
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The most notable addition to the Library is the fyle of the Quebec 'Gazette' from 1764 to 1854, which was purchased, with many other volumes and manuscripts, from the Normal School, Montreal.

During the past year 1,303 volumes were added to the library and over 200 prints and engravings.

ARTHUR G. DOUGHTY.

OTTAWA, July, 1911.



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APPENDIX TO THE REPORT OF THE MINISTER OF AGRICULTURE

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REPORT  
OF THE  
DAIRY AND COLD STORAGE COMMISSIONER

FOR THE  
FISCAL YEAR ENDING MARCH 31  
1911

---

Introduction.

Part I.—Dairying.

Part II.—Extension of Markets.

Part III.—Fruit.

Part IV.—Cold Storage.

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OTTAWA

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1911



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APPENDIX

TO THE

REPORT OF THE MINISTER OF AGRICULTURE

BEING THE

REPORT OF THE DAIRY AND COLD STORAGE  
COMMISSIONER

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OTTAWA, March 31, 1911.

To the Honourable

The Minister of Agriculture.

SIR,—I have the honour to submit my report as Dairy and Cold Storage Commissioner in your department for the year ended March 31, 1911. The detailed report is presented, as usual, under four heads, namely:

Part I. Dairying.

Part II. Extension of Markets.

Part III. Fruit.

Part IV. Cold Storage.

DAIRYING.

I am able to report excellent progress with the cow testing movement. The interest in this subject has increased very much during the year. At first we had to urge farmers to take up the work, but now they come to us for information and the necessary blank forms for keeping records.

The plan which you have authorized for the organization of Dairy Record Centres is receiving hearty support in several districts. Steps have been taken to establish centres in Oxford, Peterboro' and Lanark counties in Ontario, in Brome and St. Hyacinthe in Quebec, and at Kensington in Prince Edward Island.

An investigation was begun during the summer of 1910, with a view of determining the best method of handling cream intended for cream gathering creameries. A most interesting field of inquiry has been opened up and it is proposed to continue, with a view of concluding, the investigation during the summer of 1911.

I am pleased to report that the laws relating to the manufacture and sale of dairy products are well observed, on the whole. The Inspector of Dairy Products found it necessary to prosecute only three traders for selling and two for manufac-

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turing butter containing an excess over the legal limit of water, and two cheese makers for 'stuffing' new cheese with old or worthless curd. A conviction was secured in each case.

There was so little demand for the services of the Official Referee at Montreal during the season of 1909 that there seemed to be no justification for continuing the office, and, in consequence, there was no referee in Montreal during the past season.

A review of the season of 1910 does not show any very marked features. The conditions, on the whole, were rather more favourable for the production of milk than they were during the previous year, and notwithstanding the continued increase in the home consumption of dairy products and a somewhat lower price for cheese, there was an increase in the total value of the exports for the fiscal year ending March 31, 1911, as compared with the preceding twelve months. The export of cream to the United States showed a very large increase, the particulars of which will be found in Part I.

There has been an increased demand for 'casein' which is the trade name for the dried curd of skimmed milk, for which new uses are being discovered every day. The price has risen sufficiently to make casein a profitable by-product of the separator creamery, and it seems probable that this product may become an important source of revenue. As casein can only be produced at a separator creamery, it would seem as though the revenue to be derived from it may be an important factor in preventing separator creameries from adopting the cream gathering plan, or even to encourage cream gathering creameries to adopt the separator plan.

This Branch has for several years operated a demonstration creamery at Scotsburn, N.S. The quantity of butter manufactured was very small at first, but by degrees the patrons have become educated in dairying methods and the output is now growing rapidly. The quantity of butter manufactured was twice as large in 1909 as it was in 1908, and three times as large in 1910 as it was in 1909, the output from April 1 to December 31, 1910, being 107,715 pounds. The patrons, who are also the owners, assumed full charge of the creamery on January 1, 1911, and I am informed by the manager that he expects to double the output again this year. The creamery is now the largest in the maritime provinces.

#### EXTENSION OF MARKETS.

The work in this division has been along the same lines as for several years past, except in so far as experience enables us to improve our methods. The cargo inspection was extended to Prince Edward Island in 1910. An inspector was located at Charlottetown, who followed the fortnightly shipments of cheese to Halifax, via Pictou, and saw them stowed in the ocean steamer. This supervision resulted in certain improvements being made in the handling of the cheese between the factories on the island and the steamer at Halifax.

The usual supervision was exercised over all the iced car services and the export of perishable products.

A systematic attempt was made in September last to test the markets of Great Britain as an outlet for Canadian peaches. Mr. W. W. Moore, Chief of the Extension of Markets Division, personally supervised the packing and transportation of these trial shipments.

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The peaches were landed in Great Britain in excellent condition and sold for good prices, netting the growers about three times as much as they could have obtained in the local markets after all expenses incurred by the department were deducted. These trial shipments have demonstrated conclusively that peaches of certain varieties can be successfully laid down on the Old Country markets. Full particulars of the shipments will be found in Bulletin No. 27 of the Dairy and Cold Storage Series.

A large amount of work has been done through this division in compiling statements showing prices of various farm products, in different markets on this continent, and also in the United Kingdom, for several years past. A few of the tables prepared will be found in Part II. We have increased our facilities for collecting such information during the year, and we propose to give rather more attention to this kind of work in future.

Some tables will be found in Part II.

## FRUIT.

The apple crop of 1910, except in British Columbia, was the smallest for several years, and high prices have prevailed. The crop was characterized by a large percentage of clean, highly coloured, well matured fruit. The orchards that were thoroughly sprayed turned out so well in comparison with others not sprayed, that growers have had a most excellent object lesson on that point. The indications are that much more spraying will be done during the coming season than ever before.

A new fruit inspector was appointed at Prince Rupert during the year.

The total number of packages inspected was nearly as large as in 1909, and on account of the comparatively small crop, a very much larger percentage of the total packages was examined than ever before.

There were 60 convictions for illegal marking and packing of fruit in 1910, as compared with 216 in 1909.

Acting on your instructions, I arranged for the selection and packing of 150 boxes of Fameuse and McIntosh Red apples, which were forwarded to the Brussels Exhibition on October 8, last. They were specially packed to avoid bruising, and I am informed by the Exhibition Commissioner at Brussels that they arrived in perfect condition and were greatly admired by those who had an opportunity of sampling them.

We have also collected over 1,200 boxes of apples for the Festival of Empire Exhibition to be held in London this year. These apples were, as far as possible, packed in the orchard and sent direct to cold storage. They have recently been examined and are still in perfect condition.

The Monthly Fruit Crop Report was issued from May to October, as usual. The publication of this report involves a large amount of routine work and it requires constant attention to keep up an active list of correspondents.

## COLD STORAGE.

The offer of a bonus of \$100 for the erection of cold storages at creameries was continued throughout the year. The bonuses are paid only in those cases where the

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cold storage is constructed according to the plans supplied by this office, or according to others of equal sufficiency. An inspection is made previous to payment of the bonus.

The three iced car services for the carriage of fruit, cheese and butter respectively, were arranged for, as usual, with the railway companies.

The arrangement by which cold storage chambers were reserved on certain steamers for the carriage of fruit only was again carried out, covering eleven steamers sailing from Montreal between September 8 and October 1, to London, Liverpool, Glasgow and Bristol. The quantity of tender fruit exported in 1910 greatly exceeded that of any previous year and the quantity of fruit of all kinds exported in cold storage was very much larger than ever before. Full details of these shipments will be found in Part IV.

The experiments in the cold storage of apples mentioned in last year's report was concluded during the period under review. Some of the apples were sold in Great Britain and two car loads were disposed of at Calgary, Alta.

These experiments or trial shipments have demonstrated the following points:—

1. It is of the greatest importance that apples intended for cold storage should be placed therein as quickly as possible after being harvested.

2. If the apples are carefully packed at the time of harvesting, either in barrels or boxes, they may be exported at any time during the winter without repacking.

3. It was also clearly shown that cold storage will not preserve apples which are bruised or injured in any way, and that the blue moulds, which cause the ordinary brown rot of apples, will develop in cold storage, if there is any injury to the skin which exposes the tissue of the apple, and the Northern Spy apples appear to be particularly susceptible to this form of decay, unless the fruit is well matured and the skin is sound.

A full report of these experiments will be found in Bulletin No. 24 of the Dairy and Cold Storage series.

A preliminary test of cold storage for grapes was undertaken last autumn, which will lead to further inquiry and investigation.

The erection of cold storage warehouses for which subsidies have been asked under the Cold Storage Act, has been more active during the past year than at any time since the Act came into force. Contracts have been entered into during the year for the payment of subsidies on warehouses erected or to be erected at Halifax, N.S., Quebec, Que., Brockville, Ont., Lindsay, Ont., and Harriston, Ont. Applications have been received for subsidies on warehouses which are to be erected at Calgary, Alta., and Brandon, Man.

#### MEETINGS.

A large number of meetings have been attended by members of the staff during the year.

A series of fruit and orchard meetings was organized in Middlesex, Huron and Bruce counties in Ontario, and in Chateauguay and Huntingdon counties in Quebec, and also in Prince Edward Island. These meetings were addressed by the Chief of the Fruit Division and several of the fruit inspectors.



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The Chief of the Dairy Division has been busy during the winter months addressing meetings, by request, on the 'Care of Milk for Cheesemaking' and other dairying topics.

Messrs. J. C. Chapais and J. N. Lemieux, in addition to many other meetings, organized and addressed an important series of 31 dairy meetings in Montmagny, L'Islet, Temiscouata, Kamouraska and Rimouski counties, Quebec, during February and March. No meetings of the kind had ever been held in some of the places visited. It speaks well for the future of dairying in these districts, that notwithstanding some very inclement weather during the period, there was an average attendance of over 200 people. These two officers also attended some special meetings in the western part of Pontiac county, where there is promise of an important dairying district being established.

The officers specially charged with the promotion of the cow testing movement have attended numerous meetings in that connection.

Representatives of this Branch attended, by invitation, practically all the annual conventions of the provincial associations of fruit growers and dairymen.

## PUBLICATIONS.

The publications of this Branch for the year were as follows:—

Bulletin No. 24—'Some Trial Shipments of Cold Storage Apples.'

" " 25—'Coulommier Cheese.'

" " 26—'Dairy Legislation.'

" " 27—'Trial Shipments of Peaches, 1910.'

Circular No. 1—'Iced Cars for Cheese.'

" " 2—'The Milk Test Act.'

" " 3—'The Outlook for Canadian Tomatoes in Great Britain.'

The Monthly Fruit Crop Report was issued as usual from May to October. (5 numbers.)

## PLANS FOR DAIRY BUILDINGS AND FRUIT COLD STORAGE.

This Branch continues to supply, free of charge, blue prints and specifications for cheese factories and creamery buildings, for creamery cold storages and small cold storages intended for farmer's use. We also have a plan for a fruit cold storage suitable for co-operative associations. A larger number of these plans have been distributed during the year and rather more than usual inquiry has been made for information respecting the construction of cool cheese curing rooms.

## ACKNOWLEDGMENTS.

This branch lost, by resignation, two useful members of its staff during the year in the persons of Mr. M. R. Baker, Senior Fruit Inspector, and A. Beauchesne, French-English stenographer.

I am able once more to record my high appreciation of the services rendered by members of the staff. The general record for punctuality, industry and devotion to duty is excellent.

I am especially indebted to Mr. W. W. Moore, Chief of the Markets Division, Mr. A. McNeill, Chief of the Fruit Division, and Mr. Geo. H. Barr, Chief of the

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Dairy Division. for valuable assistance and loyal support in carrying on the work of the Branch. To these officers, to Mr. J. C. Chapais, Assistant Dairy Commissioner, and to Mr. C. F. Whitley, in charge of Dairy Records, I am indebted for a large share of the work of preparing this report.

Among the outside officers, I have much pleasure in referring to the work of Messrs. J. N. Lemieux and Jos. Burgess. Both these officers have been employed in various capacities throughout the year. They have rendered excellent service as refrigerator car inspectors, in promoting different lines of dairy work and in the collection and packing of apples for exhibition purposes.

The fruit inspectors have been assiduous in their duties and have rendered good services by promoting in many ways the best interests of the fruit industry.

Mr. P. J. Carey has rendered special service as a demonstrator and lecturer on improved methods of apple packing. Mr. Carey also assisted in the packing of the peaches for the special trial shipments.

I have to acknowledge also the kindly co-operation of the Department of Inland Revenue in making analyses in connection with the administration of the Butter Act.

I have the honour to be, sir,

Your obedient servant,

J. A. RUDDICK,

*Dairy and Cold Storage Commissioner.*

## PART I.—DAIRYING



## PART I—DAIRYING.

As a review of the progress and status of the dairying industry in Canada, the following address delivered before the Dairymen's Association of Western Ontario is reproduced with corrections in the tables and other figures to bring the information down to March 31.

### THE OUTLOOK FOR DAIRYING IN CANADA.

By J. A. RUDDICK.

*(A revision of an address delivered before the Dairymen's Association of Western Ontario, at Stratford, Ont., on January 12, 1911).*

I propose to present this subject for your consideration under two heads: (1) the possibilities and probabilities of an increased milk production, and (2) the chances for marketing an increased output at paying prices.

In taking up the first question, it may help us to arrive at a conclusion if we review the situation during the last few years and thus find a basis of calculation for the future.

I need hardly go over the familiar story of the decrease in our exports of butter and cheese from 1904 down to 1908. Great emphasis has been laid on this. I have no doubt you are aware also that this decrease has been accepted by some as an evidence of a decline in the dairy industry; an assumption which is entirely unwarranted, as I hope to prove to you before I finish.

#### EXPORT OF CREAM.

As the shipment of cream to the United States has grown to large proportions and must be reckoned in our export trade, it may be as well to consider this item first. The genesis of this market for a part of our dairy production is well known to most Canadian dairymen, but it may not be out of place to restate it briefly.

Previously to August 5, 1909, the duty on cream entering the United States was 2 cents a pound. In the Payne-Aldrich tariff, which came into force on the date mentioned, the duty is reduced to 5 cents a gallon. As a gallon of rich cream will make over 4 pounds of butter and the duty on butter is 6 cents a pound, the inducement to Americans to import cream is easily understood. Creameries have been erected at many points along the border and large quantities are shipped to the New England cities of Boston, Worcester and other points.

I may say in passing that there has lately been developed in connection with this trade a demand for wet casein, or skimmilk curd, and it would appear that this method of disposing of the skimmilk where cream is shipped may be an additional source of revenue. This applies particularly to cheese factories engaged in the cream trade. The ordinary cheesemaking apparatus can be used for making wet casein and the whey which is left is practically the same as that from cheese manufacture. The manufacture of casein has the additional advantage of keeping the cheese factory establishment in working order.



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The first shipments of cream were made in August, 1909, and the record month by month since that date is as follows:—

Months.	1909-10.		1910-11.	
	Gallons.	Value.	Gallons.	Value.
		\$		\$
April.....			16,263	18,485
May.....			52,430	55,150
June.....			152,070	145,818
July.....			238,805	221,559
August.....	1,650	1,610	266,967	265,238
September.....	12,160	12,050	271,463	262,393
October.....	39,099	40,109	327,064	309,919
November.....	70,059	71,020	213,656	196,570
December.....	31,807	37,483	151,903	119,802
January.....	81,447	82,140	68,873	62,583
February.....			47,083	42,034
March.....			17,244	14,894
	236,222	244,442	1,823,821	1,714,528

Owing to the slump in butter prices in the United States shortly after the New Year, the export of cream has almost ceased, for the present, at any rate. The quantity exported during the past 12 months represents about 7,295,284 pounds of butter, or 16,000,000 pounds (200,000 boxes) of cheese. If this quantity had been added to our cheese or butter exports for the present year, as it would have been without the cream trade, the increased exports in these two articles would have been that much larger.

#### EXPORTS OF DAIRY PRODUCTS INCREASING.

Having these figures before us, we are now able to determine the total exports for the fiscal year which ended on March 31, and a comparison with previous years will be interesting at this point.

#### COMPARATIVE VALUE OF EXPORTS FOR YEARS ENDING MARCH 31, 1909, 1910 and 1911.

	1911.	1910.	1909.
	\$	\$	\$
Cheese.....	20,739,507	21,607,692	20,334,666
Butter.....	744,288	1,010,272	1,521,436
Condensed Milk.....	469,406	541,372	90,500
Fresh Milk.....	4,276		
Cream.....	1,714,528		
Casein.....	37,099		
	23,709,014	23,159,336	21,996,622

Now, I wish you to note that the total value of the exports for the past year, in spite of lower prices for cheese\* shows a substantial gain over the two previous years.

\* The difference between the price of cheese in 1909 and 1910 amounts to about \$1,000,000 on the season's output.

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so that since 1908 our surplus for export has been increasing, not decreasing, as is frequently stated. In considering this matter, we must always include all products to make a fair comparison.

If we compare the past year with the year ending June 30, 1903, in which year the exports reached the record value of \$31,667,561, we find the shrinkage is only \$7,958,547. But this is not the whole story by any means, for we must take into account the enormously increased home consumption in the meantime. Few people seem to realize what a great difference an increase of, say, 2,000,000 people has made in this respect. I have endeavoured to estimate the average per capita consumption of milk, cream, butter and cheese in Canada, by approaching the question from many different points of view, and I am convinced that it amounts to not less than \$10 per head on the average, at the present level of wholesale prices. With our present growth in population, that means an increase of over \$2,000,000 a year in home consumption. The general prosperity of the people has resulted in a steady increase in the consumption of milk, cream, butter and ice cream of late years, and I feel that it is safe to say that the home consumption of these products this year is \$25,000,000 greater than it was in 1903.

Now, let us see where we stand, compared with 1903, if we take into account the increased home consumption.

	\$
Total exports, 1910-11.....	23,709,014
Add increased consumption as compared with 1902-3.....	25,000,000
Exports in 1902-3.....	48,709,014
	31,667,561
Increase in production in 1910-11 as compared with 1902-3.....	17,041,453

It must be apparent to any one that, in order to determine the value of our export dairy trade as at present constituted, we must now consider several products in addition to butter and cheese, and that the trade with the United States is constantly growing in importance, as the following table will show.

EXPORTS TO UNITED STATES.

The Values of Dairy Products Exported to the United States during the Years ending March 31, 1908, 1909, 1910 and 1911.

	1911.	1910.	1909.	1908.
	\$	\$	\$	\$
Cheese.....	36,034	23,995	19,428	17,732
Butter.....	91,313	199,854	18,246	38,899
Cream.....	1,714,528			
Condensed Milk.....	11,474			
Casein.....	37,008	220,446	8,256	2,737
Sweet Milk.....	3,257			
Totals.....	1,893,615	445,295	45,930	59,368

Down to the beginning of the past fiscal year, the exports of sweet milk, cream, condensed milk and casein were included under one head in the Trade and Navigation returns.

## OLD BASIS FOR ESTIMATING PROGRESS OF INDUSTRY ERRONEOUS.

I have dealt at some length with these points, because I look upon it as most important that any misconception as to a decline in the dairy industry of Canada should be effectually removed. To have such statements constantly repeated would be one of the surest ways of bringing about such a result. There are a great many people who reach their conclusion in such matters from what others say rather than from their own reasoning. There are many people who would be inclined to give up dairying if they heard that others were doing so. All this goes to show the advisability of getting away from our old habit of judging the progress and the extent of the dairy industry by the surplus of butter or cheese which there may be for export to Great Britain. That method served well enough to show the annual growth of the industry when the population was increasing very slowly, but, with the rapid increase of late years and the consequent enormous growth in the home consumption of milk, butter and cheese, it has proved to be entirely misleading. When we consider that the total production of milk in this country reaches the enormous value of about \$100,000,000 a year, it becomes apparent at once that the small part of that which is exported does not, and never did, for that matter, adequately represent the volume and magnitude of the industry.

To take another view of the present situation and the inferences that may be drawn from it for the future, I would ask consideration for a moment to some of the conditions which prevail in other provinces.

## OUTLOOK BY PROVINCES.

In the maritime provinces the dairy industry is making some progress, especially in Prince Edward Island and in Nova Scotia. The output of cheese in the former province made a gain of over 30 per cent in 1909 and shows a still further, though smaller, increase in 1910. Very unfavourable weather during the latter part of the season curtailed the supply of milk. Every cheese factory and creamery in Nova Scotia increased its output in 1910 by 8 to 214 per cent over 1909, the total increase being 18 per cent for cheese and 50 per cent for butter.

There have been some marked increases in the prairie provinces and also in British Columbia, though the quantity produced at present is far short of the needs of those growing communities. Although there are a number of cheese factories in Manitoba and ten or twelve small ones farther west, in Alberta, this branch of the industry makes very little headway, and it should not be encouraged until conditions are more favourable to it.

In Quebec, conditions governing production remain very much as they have been for some years, but there is a growing tendency towards the consolidation of small factories, which will make for improvement, and there is likely to be a change in the working of the system of instruction by bringing the instructors directly under government control and independent of the factories. We may look for good results to follow in more than one direction.

While there are individuals here and there who, for one reason or another, have given up dairying, and even small districts where the production of milk shows a decrease, there is, on the whole, throughout the Dominion a good healthy tone to the industry. The present high price of cows is a good indication of the attitude of farmers towards it, and it is gratifying to note that buyers are now showing more discrimination in favour of good milking strains.

## COW TESTING.

Those of us who have been in close touch with the cow testing movement since it was started are able to see a very decided, if somewhat tardy, awakening of interest

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in that work. This question of herd improvement, in my judgment, is the most important one which may engage the attention of milk producers or factory owners. That is why the Dairying Service at Ottawa is giving so much attention to it. We are prepared to extend this work as fast as the farmers are ready to take it up, and to lend encouragement in every reasonable manner. I am pleased to announce that the Minister has approved of a plan for the further promotion of this work, whereby we shall have men in charge of small districts covered by four or five cheese factories or creameries, so that they will be able to get into touch with all the patrons and secure the average milk records of all the herds even when the owner will not undertake to keep individual records. The information obtained in this way will be accurate and instructive, and the constant presence of an enthusiastic advocate amongst the farmers is bound to have a stimulating effect.

The cow testing movement has not spread as rapidly as it might have been expected to spread, considering the important relation which it bears to profitable dairy farming, but we are making progress, and the number of cows recorded has increased largely every year. I believe the common sense of the majority of Canadian milk producers will eventually lead them to adopt a plan which offers so much in return for comparatively little labour and outlay.

Already we have records from many herds showing increases of 20, 25 and even 30 per cent in the average yield, as the result of an intelligent application of the knowledge gained through the systematic study of the performance of individual cows. If the average yield per cow could be increased by only 500 pounds of milk a year, it would mean an additional annual production of over \$10,000,000 in Canada. That would be one of the simplest and easiest things to do, if all farmers could only be made to realize to the point of action the possibilities which lie before them in this direction. I predict that a large proportion of the cows in Canada will in a few years yield fully 50 per cent more than they do at present. Indeed, there is good reason to believe that much of the increase in production which I have outlined may be traced to this source, as the number of cows does not appear to have increased in proportion to the increased output.

## THE MARKET OUTLOOK

Turning now to the market end of this discussion, I would say at the outset that there is nothing in sight which need offer the slightest discouragement to a largely increased production. The home market, which, as I have already shown, absorbs something like \$80,000,000 worth a year of milk and its products, is expanding rapidly, and at the present rate of increase would wipe out our surplus for export in less than ten years if production remained stationary. As a matter of fact, our export trade would have been wiped out already had there not been a large increase in production since 1903. But I do not think there is any immediate danger of losing our export trade either for lack of a market or for lack of something to supply it with. The maw of Great Britain is never satisfied and we always have that market open to us on even terms, at any rate.

Trade with the West Indies continues to grow steadily. Canadian butter and cheese have become well established in that part of the world.

In the United States, although that country is the largest producer of dairy products in the world, the supply has for several years fallen short of the demand and they have imported butter and cheese to the value of \$9,122,884 during the calendar year 1910—nearly double the imports of 1907. Canada is a natural source of supply for the United States, and our trade is likely to grow in that direction.

## NEW ZEALAND AS A FACTOR.

The situation in the markets of Great Britain in regard to Canadian cheese has changed somewhat since the New Zealand imports have become a factor in the trade.



The shipments of New Zealand cheese have increased from 9,000,000 pounds for the year ending June 30, 1904, to 50,000,000 pounds for the same period ending in 1910. It will depend very largely on the relative price of butter and cheese whether the increase will be continued or not. Private advices from New Zealand intimate that the present season began very badly with cold weather and much lack of rain in some districts, and that the cheese shipments for the season just beginning are much smaller than they were last year.

The arrival of 50,000,000 pounds of New Zealand cheese on the market during our winter months has lessened the speculative demand for Canadian cheese to supply the winter trade, but we gain from the fact that a larger proportion of our summer cheese is now wanted for immediate consumption and a higher level of prices is maintained during the period of greatest production. Formerly the demand fell off at that season, as a result of over-supply, and much of the cheese found a sale only when the price went low enough to encourage buying on a speculative basis.

It is rather remarkable that the increase in New Zealand receipts for the year ending June 30, 1910, as compared with 1904, should tally so closely with the decrease from Canada for the same period. The difference between the increase on the one hand and the decrease of the other was only 538,200 pounds, the decrease from Canada being that much less than the increase from New Zealand.

#### GREAT BRITAIN'S IMPORTS DECLINING.

There is another feature of the market situation which is worth noting. If we take the average imports of cheese into Great Britain from all countries for the years ending June 30, 1900 and 1901, and compare them with the average for 1909 and 1910, we find that the quantity has fallen off to the extent of over 44,000,000 pounds. This is taken by some to represent a decline in the consumption of cheese in Great Britain. The shortage is probably partly met by an increased home supply. It is claimed that there has been a large increase in the output of Cheshire cheese of late years. The home production of cheese in Great Britain, like the home consumption in Canada, is only estimated, but it is well to bear in mind that Great Britain, next to the United States, is the largest cheese-producing country in the world, and much larger than Canada.

If the decline in the imports of cheese into Great Britain really does mark a smaller consumption—and I think there is some truth in that claim—it becomes a matter of no little importance and is well worth inquiring into.

#### HARM DONE BY GREEN CHEESE.

Personally, I believe that the immature condition in which much of our cheese has been put on the market has had a great deal to do with it and with the lower price which prevailed in England for Canadian cheese during the past summer. There have been very serious complaints on this score, especially since the cheese has been going more directly into consumption. With strange perverseness, we have shipped our cheese greener at the very time when they should have been more fully ripened. I have spoken rather plainly on this subject on other occasions, and I think the present is a good time to do so again, for I believe it has cost the cheese factory patrons of Canada nearly a million dollars in reduced prices in 1910, to say nothing of the injury to our reputation and the effect that it may have in the future. I know all the arguments that are used to excuse the practice, most of which are unsound, and although there may be some temporary advantage in getting rid of cheese when only a few days old, we will reap the consequences of our folly in the end.

It seems to me, Mr. President, that this is the sort of question which your association should deal with, because it is your members who are most interested and who will suffer if mistakes of this kind are made.



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## CANADA STILL HOLDS PREMIER POSITION.

Now, I don't want any one to imagine for a moment that Canada has lost, or is yet anywhere near losing, her premier position in the cheese markets of Great Britain. We still supply about 65 per cent of the total imports, and 77 per cent of the kind which we make, and, apart from the green condition, the quality of our cheese has improved of late years.

I do not wish either in anything that I have said respecting the extent of our home trade or the trade with the United States, to minimize the importance of the export trade with Great Britain. As long as we have a surplus for export, the value of the whole production is determined very largely by the price which is obtained for that surplus. We should guard very carefully, therefore, our interests in this connection and see to it that nothing is allowed to injure the high reputation which our cheese especially, has attained on that market.

## SOME STATISTICS OF THE EXPORT TRADE.

## TOTAL EXPORTS OF CHEESE AND BUTTER IN FISCAL YEARS 1880 TO 1911, INCLUSIVE.

BUTTER.			CHEESE.		
Year.	Quantity.	Value.	Year.	Quantity.	Value.
<i>Years ending June 30.</i>	Lbs.	\$	<i>Years ending June 30.</i>	Lbs.	\$
1880.....	18,535,362	3,058,669	1880.....	40,368,678	3,893,366
1890.....	1,951,585	340,131	1890.....	94,260,187	9,372,212
1891.....	3,768,101	602,175	1891.....	106,202,140	9,508,800
1892.....	5,736,696	1,056,058	1892.....	118,270,052	11,652,412
1893.....	7,036,013	1,296,814	1893.....	133,946,365	13,407,470
1894.....	5,534,621	1,095,588	1894.....	154,977,489	15,488,191
1895.....	3,650,258	697,476	1895.....	146,004,650	14,253,002
1896.....	5,889,241	1,052,089	1896.....	164,689,123	13,956,571
1897.....	11,453,351	2,089,173	1897.....	164,220,699	14,676,239
1898.....	11,253,787	2,046,686	1898.....	196,703,323	17,572,763
1899.....	20,139,195	3,700,873	1899.....	189,827,839	16,776,765
1900.....	25,259,787	5,122,156	1900.....	185,984,430	19,856,324
1901.....	16,335,528	3,295,663	1901.....	195,926,397	20,696,951
1902.....	27,855,978	5,660,541	1902.....	200,946,401	19,686,281
1903.....	34,128,944	6,954,618	1903.....	229,099,925	24,712,943
1904.....	24,568,001	4,724,155	1904.....	233,980,716	24,184,566
1905.....	31,764,303	5,930,379	1905.....	215,733,259	20,300,500
1906.....	34,031,525	7,075,539	1906.....	215,834,543	24,433,169
<i>Years ending Mar. 31.</i>			<i>Years ending Mar. 31.</i>		
1907 (9 months).....	18,078,508	4,011,609	1907 (9 months).....	178,141,567	22,006,584
1908.....	4,786,954	1,068,703	1908.....	189,710,463	22,887,237
1909.....	6,326,355	1,521,436	1909.....	164,907,139	20,384,666
1910.....	4,615,380	1,010,274	1910.....	180,859,886	21,607,692
1911.....	3,142,682	744,288	1911.....	181,895,724	20,739,507

## DETAILED EXPORTS FOR YEAR ENDING MARCH 31, 1911.

To all Countries.	Quantity.	Value.
Butter.....	lbs.	\$
Cheese.....	"	3,142,682
Cream.....	galls.	181,895,724
Fresh milk.....	"	1,823,821
Condensed milk.....	lbs.	39,775
Casein.....	"	6,584,828
		1,515,172
Total value.....		23,709,014



## SESSIONAL PAPER No. 15a

DETAILED STATEMENT OF EXPORTS OF BUTTER IN FISCAL YEARS 1902 TO 1911, INCLUSIVE.  
(Years ending June 30, 1902 to 1906; years ending March 31, 1907 to 1911.)

To	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.	1910.	1911.
Great Britain.....	5,459,300	6,554,014	4,400,77	5,548,999	6,892,003	3,805,925	822,561	1,273,484	587,491	401,621
British West Indies.....	71,816	112,968	127,790	80,323	87,085	59,313	86,371	93,370	76,026	70,444
British Guiana.....	6,796	7,752	6,412	8,929	11,654	8,113	12,861	7,711	9,197	10,682
Other British Possessions.....	284	72	.....	.....	.....	.....	5	.....	511	1,423
Newfoundland.....	47,006	69,017	82,422	82,387	48,287	56,516	34,931	54,552	50,674	57,198
China.....	78	141	1,763	562	761	5,041	1,319	.....	.....	.....
Cuba.....	243	202	796	658	285	1,054	720	96	22	985
Danish West Indies.....	1,581	6,077	5,808	4,473	4,560	3,664	4,929	4,418	4,697	1,438
French West Indies.....	101	1,020	25,61	.....	.....	.....	.....	.....	9,777	.....
Germany.....	.....	115	.....	.....	.....	.....	.....	.....	.....	.....
Hawaii.....	.....	38	.....	.....	.....	.....	.....	.....	.....	.....
Havai.....	.....	1,816	6,027	6,496	9,373	9,662	4,258	3,019	1,002	840
Japan.....	1,013	28,655	26,498	21,827	17,668	17,615	18,749	14,740	14,036	18,566
St. Pierre.....	27,102	10,225	6,497	70,580	33,965	3,539	38,899	18,246	199,854	91,313
United States.....	41,149	12	16,417	4,911	2,056	265	.....	22,458	1,873	10,460
British Africa.....	.....	133,958	.....	.....	1,268	484	263	660	936	59
Mexico.....	.....	4,685	.....	.....	.....	.....	.....	.....	.....	.....
Brazil.....	1,608	9,084	.....	.....	.....	.....	.....	.....	.....	.....
Dutch West Indies.....	2,040	.....	.....	.....	.....	.....	.....	.....	.....	.....
U. S. Colombia.....	92	1,175	2,272	2,00	1,747	2,145	.....	1,105	832	.....
Australia.....	200	6,187	.....	.....	.....	.....	.....	.....	.....	.....
Bermuda.....	.....	.....	.....	59,482	47,015	33,900	33,177	13,273	43,638	54,665
France.....	.....	.....	14	14,410	4,155	.....	.....	.....	.....	.....
San Domingo.....	.....	1,351	.....	.....	.....	.....	.....	.....	.....	.....
Holland.....	.....	.....	8,175	13,689	.....	.....	.....	.....	.....	.....
Venezuela.....	.....	6,240	.....	.....	.....	.....	.....	.....	.....	.....
Belgium.....	.....	.....	10	116	.....	.....	.....	.....	.....	.....
Central America.....	.....	.....	686	1,062	3,431	4,332	9,448	7,074	2,530	3,948
Costa Rica.....	.....	.....	.....	15	.....	.....	.....	.....	15	.....
Dutch Guiana.....	.....	.....	.....	186	30	40	.....	.....	48	.....
Turkey.....	.....	.....	.....	50	.....	21	.....	.....	.....	.....
Porto Rico.....	.....	.....	.....	.....	170	.....	.....	.....	.....	.....
Panama.....	.....	.....	.....	.....	.....	.....	.....	4,229	7,320	19,881
Austria-Hungary.....	.....	.....	.....	.....	.....	.....	.....	1	.....	771
Alaska.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals.....	5,669,541	6,954,618	4,724,155	5,980,379	7,075,539	4,011,609	1,008,703	1,521,436	1,010,274	744,288

DETAILED STATEMENT OF EXPORTS OF CHEESE IN FISCAL YEARS 1902 TO 1911, INCLUSIVE.  
(Years ending June 30, 1902 to 1906, and years ending March 31, 1907 to 1911.)

To	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.	1910.	1911.
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Great Britain.....	19,620,239	24,620,004	24,099,004	20,174,211	24,300,908	21,309,875	22,763,736	20,268,166	21,481,566	20,577,542
Australia.....	6,802	6,913	6,247	5,411	5,350	245	555	223	171	88
British Africa.....	808	2,514	7,559	10,612	16,623	18,281	16,362	12,466	16,455	22,601
B. W. Indies.....	18,542	44,674	34,253	36,176	25,509	13,666	27,533	26,940	24,035	2,844
B. E. Indies.....	60	40	315	62	20					
British Guiana.....	1,833	2,165	1,193	2,571	3,860	3,143	6,228	4,452	5,232	4,747
Other British Possessions.....	746	553	216				9		1,011	1,575
Hong Kong.....		161	1,253	1,079	1,029		831	2,452	733	1,077
New Zealand.....	216	983	1,039	1,642	1,795	1,690	1,362	54	1,297	467
Newfoundland.....	20,100	21,334	21,754	35,171	30,092	37,748	35,792	41,163	36,912	39,855
Belgium.....			10	22	287		24,080			1
Argentina.....		14								
Cuba.....	350	331	211	102	811		57		17	419
China.....	1,409	1,734	1,899	2,013	2,195	2,206	1,572	568	756	1,040
Danish West Indies.....	332	2,637	1,936	2,046	2,656	1,568	1,985	1,937	2,453	2,148
France.....			44	700	7,293		10	81		5,534
Japan.....	821		1,609	759	775	1,071	1,444	2,200	1,208	2,700
Philippine Islands.....			100							
St. Pierre.....	158	289	356	341	875	318	190	364	311	338
United States.....	12,038	7,779	5,386	14,182	16,082	6,900	17,732	19,428	23,995	36,034
Dutch West Indies.....										
Norway and Sweden.....										
Germany.....	1,171	170		101	394	54	5			
Bermuda.....				12,505	14,033	9,080	9,245	3,174	11,385	1,126
Dutch Guiana.....			23	18	13	9				
Egypt.....		15								
Mexico.....		30		329	1,594	630	168	499	108	77
French West Indies.....			159							
Central America.....		7		80			347	8		112
Holland.....					97	110				
U. S. of Colombia.....					68		6		5	142
Other countries.....										
Totals.....	19,685,291	24,712,943	24,181,566	20,300,500	24,433,169	22,006,584	22,887,237	21,384,666	21,607,692	20,739,507

SESSIONAL PAPER No. 15a

FROM THE ASSISTANT DAIRY COMMISSIONER TO THE DAIRY AND  
COLD STORAGE COMMISSIONER.

SIR.—I beg leave to present you my twenty-first report as Assistant Dairy Commissioner, which covers the period of 12 months, and ending March 31, 1911.

## SUMMARY.

I have devoted all my time to the province of Quebec, and I have, during the period under review, delivered lectures before 22,696 persons, of whom 335 were butter and cheese makers. The average attendance was 130. Out of the 111 localities visited, I went for the first time to 16 of them. I have travelled 6,937 miles to perform my work.

I give here a list of the counties and localities which I have visited and where I have delivered lectures, with reference letters, indicating the purpose of meeting.

TABLE OF VISITS AND LECTURES.

Reference letters indicate:

- (a) Provincial and federal meetings
- (b) County and district meetings.
- (c) Farmers' Club meetings
- (d) Parish meetings.
- (e) English lectures.
- (f) Visits in college and schools.
- (g) Factory inspection.

## PROVINCE OF QUEBEC.

Counties.	Localities.	Visits.	Lectures.	Reference Letters.
Arthabaskaville.....	Arthabaskaville.....	1	2	g
	St. Christophe.....	4	8	g
	St. Norbert.....	2	4	g
	St. Paul de Chester.....	7	14	g
	Ste. Hélène.....	1	2	g
	Stanford.....	5	10	g
	Victoriaville.....	2	2	b, g
Beauce.....	St. Joseph.....	1	2	a
Chicoutimi.....	Chicoutimi.....	3	2	a, b, f, g
	Jonquières.....	1	2	g
	Latérière.....	2	1	g
	St. Alphonse.....	1	2	g
	Ste. Anne.....	1	2	e
Compton.....	Compton.....	1	1	e
	Cookshire.....	1	1	d
	Martinville.....	1	1	e
	Paquetteville.....	1	2	e
	Popeville.....	1	1	e
	St. Henri (East Hereford).....	1	1	e
	St. Malo.....	1	2	e
	St. Edwidge.....	1	1	e
	Waterville.....	1	1	e
Jacques Cartier.....	Macdonald College.....	1	2	a, e, f
Kamouraska.....	Rivière Ouelle.....	1	1	c
	St. Alexandre.....	1	1	c
	St. Denis.....	1	2	e
	St. Pacôme.....	1	1	b
	St. Pascal.....	1	1	e
	St. Philippe.....	1	1	e
	Ste. Anne de la Pocatière.....	1	1	c
	Ste. Hélène.....	1	1	c



## PROVINCE OF QUEBEC—Continued.

Counties.	Localities.	Visits.	Lectures.	Reference Letters.
Lake St. John .....	Hebertville.....	1	..	g
	Normandin.....	2	2	g
	Péribonka.....	1	2	g
	St. Cœur de Marie.....	2	2	g
	St. Félicien.....	2	2	g
	St. Gédéon.....	1	..	g
	St. Henri de Taillon.....	1	2	g
	St. Joseph d'Alma.....	2	2	g
	St. Louis Nazaire.....	1	..	g
	St. Prime.....	1	..	g
	St. Wilbrod.....	1	1	b
	Ticouabé.....	1	2	g
L'Islet .....	L'Islet .....	1	1	c
	St. Aubert.....	1	1	c
	St. Jean Port Joli.....	1	1	c
L'Islet .....	St. Roch des Aulnaies.....	1	1	c
	St. Louise.....	1	1	c
Matane.....	Matane.....	1	1	c
	Montjoly.....	1	1	c
	Ste. Angèle.....	1	1	c
	Ste. Félicité.....	1	1	c
	Sandy Bay.....	1	1	c
Megantic.....	Ste. Sophie.....	1	2	g
Montmagny .....	Cap St. Ignace.....	1	1	c
	St. Pierre.....	1	1	c
	St. Thomas.....	2	1	c, g.
Pontiac.....	Lorrainville.....	2	1	c, g.
	North Temiscamingue.....	1	1	d
	St. Bruno de Guigues.....	2	1	c, g.
	St. Edward de Fabre.....	1	1	c
	St. Isidore.....	1	1	c
	St. Placide.....	1	1	d
	Ville-Marie.....	1	1	d
Portneuf.....	Notre Dame des Auges.....	1	1	c
	Rivière à Pierre.....	1	1	c
	St. Alban.....	1	1	c
	St. Casimir.....	1	1	c
	St. Leonard.....	1	1	c
	St. Mare des Carrieres.....	1	1	c
	St. Raymond.....	1	1	c
	St. Réme.....	1	1	c
	St. Thuriibe.....	1	1	c
	St. Ubalde.....	1	1	c
	Ste. Catherine.....	1	1	c
Quebec City.....	Quebec.....	2	..	a.
Rimouski .....	Bic.....	1	1	c
	Rimouski.....	1	1	c
	St. Fabien.....	1	1	c
	St. Simoa.....	1	1	c
	Ste. Luc.....	1	1	c
Sherbrooke .....	Sherbrooke.....	1	..	a
	Sherbrooke, East.....	1	3	a
St. Hyacinthe.....	St. Hyacinthe.....	1	4	a, e
Stanstead .....	Benford.....	1	1	c
	Coaticook.....	1	1	c
Temiscouata.....	St. Wilfrid de Kingscroft.....	1	1	c
	L'Isle Verte.....	1	1	c
	Notre Dame du Lac.....	1	1	c
	St. Arsène.....	1	1	c
	St. Eloi.....	1	1	c
	St. Epiphane.....	1	1	c
	St. Jean de Dieu.....	1	1	c
	Ste. Francoise.....	1	1	c
Terrebonne.....	Trois Pistoles.....	1	1	a
	St. Hyppolite.....	1	1	e
	St. Janvier.....	1	1	c
	St. Jerome.....	1	1	c
	St. Sauveur.....	1	1	c
	Ste. Adele.....	1	1	g

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PROVINCE OF QUEBEC—*Continued.*

Counties.	Localities.	Visits.	Lectures.	Reference Letters.
Terrebonne. ....	Ste Agathe.....	1	1	c
	St. Anne des Plaines.....	1	1	c
	St. Lucie.....	1	1	..
	St. Marguerite.....	1	1	c
	St. Sophie.....	1	1	c
	St. Therese.....	1	1	c
Two Mountains.. ..	Terrebonne.....	1	1	c
	La Trappe.....	1	1	a, c, f
Wolfe.....	Sham Nord.....	5	10	g
	St. e Damede Sham .....	2	4	g
	St. Adolphe de Dudswell.....	1	1	c

## NOTES ON A VISIT TO TIMISKAMING.

Acting on your instructions I attended a series of meetings in the western part of Pontiac county, known as Timiskaming, in company with Mr. J. N. Lemieux, for the purpose of addressing a series of special dairy meetings.

I visited Timiskaming for the first time in 1898, and here is what I wrote about it, as a report of my trip: 'Timiskaming, or "Lake Timiskaming" as the region is called, is a district situated at the western end of Pontiac county. Though fairly well settled now by farmers, it is still a lumbering country. I found that there is a first-class field for dairying and cattle raising. Land is good either for grain growing, hay production or grazing. Plenty of good grass, abundant and excellent water, and cool temperatures, make it a first-class district for the production of milk, cheese and butter. On the other hand, the proximity of the forest where thousands of lumbermen spend more than half the year, brings a strong demand for meat, and there is no doubt that dairying, the raising of all the calves and the feeding of hogs in connection with dairying, are the three industries opened to the Timiskaming farmer.'

When I made the trip to Timiskaming which suggested the above remarks, I visited only one organized parish, called 'Ville-Marie,' which was under the direction of the Reverend Oblate Fathers, and which is situated on the Baie des Perès, in Duhamel township, and another parish in formation called 'St. Bruno des Guigues,' where a chapel was built and which was under the direction of the Ville-Marie reverend Oblate Fathers. I went also, during the second trip through a mission where a chapel had been already erected and where they were building a first house. It was the locality then called 'La Tête du Lac' (Head of the Lake) and it was also under the direction of the Ville-Marie Fathers.

As to dairying in 1898, an effort was being made to organize a butter factory at Ville-Marie, an enterprise which has proved unsuccessful.

To-day in that district, agriculture begins to be fairly organized, under the regulations of the Quebec Department of Agriculture. We found six farmers' clubs in the localities of Lorrainville, Fabre, St. Bruno de Guigues, St. Eugene de Guigues, St. Isidore and St. Floride. At the very moment we were there, they had organized a third agricultural society for the Timiskaming region, besides the two others that are in existence in the eastern part of Pontiac county.

There are now in Timiskaming three cheese factories and one creamery, the latter at St. Bruno de Guigues. That factory had, last summer, 36 patrons with a maximum of 2,300 pounds of milk daily. The cheese factory is the property of Mr. N. Boivin. At St. Edward de Fabre, there is a cheese factory owned by Messrs. Goulet and Demero.

These factories, so poorly supplied with milk as they are to-day give very little satisfaction to the owners from a financial point of view. The bovine population of this district is not numerous, being about 2,000 head, of which 1,600 are milch cows, but if every farmer who could be a patron of one of these factories was inclined that way they could produce very good results. Many of them do not understand the advantages they would reap from bringing their milk to the factories. This applies to those who have been enticed to buy hand separators with the idea that the fact of the possession of one of these machines communicates the science of buttermaking with perfection.

#### ADVANTAGES THAT TIMISKAMING OFFERS TO ITS INHABITANTS.

From an agricultural point of view, Timiskaming constitutes a fine region for colonization. The soil, generally of a clayey and calcareous composition, is very rich and we have seen there magnificent crops of oats, with the grain averaging 45 pounds to the bushel, an indication that the fertility of the soil is good. In the whole region we found that the second crop of clover had grown up with a remarkable vigor, and on the lands where the farmers have not indulged too much in hay growing to sell to lumbermen, some reports were made to us of three tons of hay to the acre. The crops of 1910 were remarkably abundant. Besides hay and oats, potatoes are extensively grown.

The temperature, which is cold in winter, is, during summer, very favourable to the growth of cereals, including wheat which gives very good yields. The cool nights, during the hot season, are very favourable to the dairy industry, through the influence of such a condition on the preservation of milk.

The proximity of silver mines at Cobalt and Silver Mine, which are fifteen and eighteen miles from Ville-Marie gives to the farmers an almost unlimited market for beef, pork, butter, eggs, fowls, vegetables, &c. The first settlers who came to that region, having an excellent market for the sale of hay and oats to the lumbermen who paid very high prices for those products, have neglected cattle breeding, meat and milk production, and some of them have already so much abused their land by the too continuous production of crops of hay and oats sold out of their farms, that their soil, rich though it is, begins to show sign of impoverishment.

In our addresses to the farmers in Timiskaming we endeavoured to convince them that it would pay them better to give more attention to live stock, to produce more milk and pork, and feed the hay and grain rather than sell it to the lumbermen.

The fact that Ville-Marie merchants import every year hundreds of barrels of pork and large quantities of butter; that the butchers of the same place are obliged to buy their animals for meat along the main line of the Canadian Pacific railway; that meat is sold on the retail market at Ville-Marie at 24 cents pound for beef and 20 cents for pork; that butter sells, retail, for 25 cents a pound in summer and over 30 cents in winter, shows that the Timiskaming farmers have a good market at their doors. They need more milch cows and a few good bulls, to develop the dairy herds. Pork production should receive more attention, and every animal born on the farms should be grown to maturity.

In the third place, it is important that farmers establish on their lands a rotation of crops which can give them all the hay, pasture, green fodder, corn, grains and roots which will enable them to keep and feed many cows, pigs, fowls, to supply the excellent markets in the nearby mining towns of Haileybury and Cobalt.

We encouraged the breeders of dairy cattle to start rational breeding founded on the selection of the best milk cows, by means of cow testing associations and of the selection of the best bulls, and by proper feeding to bring an abundant yield of milk.

As a corollary to all that advice, we have incited the farmers and capitalists of Timiskaming to form co-operative societies for the establishment of butter factories

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rather than cheese factories, for two reasons. The first is that skimmed milk is a necessary by-product for the farmers, who should, as we have advised them, go into cattle raising. The second reason is that there is actually, in the region of Timiskaming, a local market for all the butter that can be made there now, and for a long time in the future.

## MEETINGS IN EASTERN QUEBEC.

We held, Mr. Lemieux and I, our second series of Farmers' Institute meetings, in eastern Quebec, during the months of February and March. Those meetings were held in six counties and in thirty-three localities, between Montmagny and Rimouski.

The subjects, all illustrated with the magic lantern, we have treated in those thirty-three meetings were the following:—

Mr. Lemieux spoke on Improvement of dairy herds, through the study of individual yield; Economic production of milk; The payment of milk by the fat test.

Myself, I spoke on: The formation of the dairy herd; The breeding of dairy cattle; Hygiene in stables.

During that trip, Mr. Lemieux had enough success to organize thirty-two associations for the weighing and testing of milk, amongst three hundred and sixty-five farmers, owners of three thousand four hundred and seventy-three cows.

In this section of eastern Quebec, there are still two counties, Bonaventure and Gaspé where the kind of work we have done this winter in the above mentioned counties would bring as good results, in many localities. As those localities are situated in a region which presents many obstacles for winter meetings, I beg leave to suggest that we could finish that work there during next summer.

## ACKNOWLEDGMENTS.

Mr. Lemieux and I have to offer many thanks to the parish priests of the Timiskaming region and of the six counties where we have travelled for our institute meetings, for the great willingness with which they have advertised our lectures and brought with them the farmers to attend an assembly. Their help and their presence have had much to do with the success of our trips.

## LECTURES BEFORE FARMERS' CLUBS.

Of the one hundred and seventy-four lectures that I have delivered during the last twelve months, seventy-seven have been delivered before farmers' clubs. All our institute meetings were held under the auspices of Farmers' Clubs, except two, and the thirty-nine other lectures before Farmers' Clubs were delivered by myself in the counties of Chicoutimi, Compton, Portneuf, Two Mountains, Terrebonne and Wolfe.

The subjects treated before those farmers' clubs, were those mentioned above as having been given before the Institute meetings and before those, the following: Selection of cows; care of milk; small fruit culture; reform in dairying; mixed farming and the markets; weeds; rural and domestic economy; usefulness of farmers' clubs; chemical manures.

## LECTURES BEFORE PARISH MEETINGS.

I have lectured, this year, in only three parishes where no farmers' clubs are yet established, Cookshire, in Compton county, and North Timiskaming, and Ville Marie in Pontiac county. I have especially urged the farmers of those three parishes to join the movement of association and co-operation found now everywhere, so as to profit from the advantages derived from such associations and co-operation.



## VISITS TO SCHOOLS AND COLLEGES.

I have visited this year, the school of household and Domestic Science of Chicoutimi, MacDonald College, and the Oka Agricultural Institute, while I was on the road for my lecture trips.

## FACTORY INSPECTION.

I was invited in May, June and July, 1910, to make the inspection of forty-nine factories, in five syndicates, in the counties of Arthabaska, Chicoutimi, Lake St. John, Wolfe, Megantic, and to deliver lectures before the patrons of those factories. I made the same kind of inspection and gave the same lectures that I have already described in some of my previous reports. I have also visited three other factories and in all, I have inspected fifty-two factories and delivered eighty-two addresses to their patrons numbering 5,481.

## OFFICE WORK.

I give here a list of the memoranda, lectures and papers I have written, during the last twelve months, in addition to my always pretty large correspondence.

- The enemies of the Ginseng plant (an article in French).
- Dairying in Manitoba (an article in French).
- Apropos of Corn (a memo. in English).
- Abstract of an article on 'The Forest and the Farmer,' (an article in Eng.).
- Notes on dairying in New Zealand (an article in French).
- The wearing out of the land (an article in French).
- Reminiscences and Revendications (a lecture in French).
- Whey pasturization in cheese factories (an article in French).
- Through the factory syndicates (a lecture in French).
- A page of Agricultural contemporary history (an article in French).
- The Canada thistle (an article in French).
- Ornamental trees (an article in French).
- Faults in cheese colour (an article in French).
- A sheep farm (an article in French).
- Notes on Timiskaming (a memo. in French and in English).
- An opening concerning cheese co-operative association (an article in French).
- A short chronicle on Dairying (an article in French).
- Tests in dairying (a lecture in French and in English).
- Bibliograph—an agriculture manual, by Abbé Solanet (an article in French).
- A new casein test (an article in French).
- Plants sheltering noxious insects and fungi (a lecture in French and in English).
- Cleanliness in factories (an article in French).
- Reading matter for Arbour Day (an article in French).
- A few notes on potato culture (an article in French).
- White washes for factories (an article in French).
- Co-operation in fruit growing (a lecture in French and in English).
- Notes on the blooming season of fruit trees in the eastern part of the province of Quebec (memo in English).

## CLOSING REMARKS.

Before closing this report I beg leave to draw your attention to the fact that I find in our French farmers much more of the spirit of progress towards co-operative ideas than they had a few years ago. Dairying will soon be the prevailing industry in the Timiskaming district and before long we will find cow testing associations in



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most of the counties of the province of Quebec. New regulations enacted concerning the laws of hygiene in factories will bring the disappearance of many small factories which have no right to existence and soon non-qualified cheese and butter makers will be men of the past who will never come back.

J. C. CHAPAIS,  
*Assistant Dairy Commissioner.*

St. Denis (en l'es) Que.  
March 31, 1911.

PROGRESS REPORT ON EXPERIMENTS IN THE CARE OF HAND  
SEPARATOR CREAM.

OTTAWA, October 1, 1910.

FROM THE CHIEF OF THE DAIRY DIVISION TO THE DAIRY AND COLD STORAGE  
COMMISSIONER.

Under your direction, experimental work on the 'Care of Hand Separator Cream at the Farm,' was carried on at the Renfrew Creamery, Renfrew, Ont., during the months of June, July and August, 1910.

The object of the work was to secure some definite information regarding the temperatures at which cream can be kept sweet for different periods; how best to cool the cream; the effect of keeping the cream in cellars; and skimming a thick and thin cream.

Arrangements were made to take entire charge of the cream from about 40 cows at two farms. Considerable time was spent at these farms fitting up proper places for cooling the cream.

An insulated tank was made for each farm. These tanks were made of inch lumber, with a four inch space filled with mill shavings on the sides, top and bottom. They were lined with galvanized iron, and connections were made with windmill pumps at both farms. This arrangement was not satisfactory. It often happened that just when we required cold water the windmill would not be running, and the water from the elevated storage tanks was nearly always too warm to cool the cream sufficiently to keep it sweet for delivery every other day. It is, however, a very handy way to get water into the tanks when ice and water are used. The tanks were deep enough to put the entire cream can under the insulated cover. We found these tanks an excellent utensil for controlling the temperature of the cream with very little ice and water. We can recommend an insulated tank to any one who is handling hand separator cream.

At one of the farms, the tank was placed in a lattice summer house (plate I, fig. 2) and we had no trouble in keeping a sufficiently low temperature to keep the cream sweet for delivery every other day with water from the well at 48 degrees and changed night and morning. We could not, however, keep cream sweet for delivery twice a week in these tanks with water only: ice had to be used.

At the other farm, there is a very nice milk house 9 x 12 feet, with walls 7 feet high, (plate II, fig. 2). This building has a cement foundation and floor with a gutter along one side connected with a drain, which made it easy to keep the place clean. The separator and insulated tank were in this building. A tin receiver, large enough to hold about a pail and a half of milk, rests on a shelf on the outside of the building, high enough to discharge into a milk can setting inside. The milkers emptied their pails into this receiver, which had a fine wire gauze strained soldered

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over the outlet, and thus strained the milk as it ran into the can inside. When separating commenced, the milk was drawn from a tap at the bottom of the can into a pail and put into the separator. This arrangement kept the milk room clean, especially in muddy weather, as the milkers did not go inside until they were ready to separate the milk, and there were no more utensils to wash than if pails or other vessels had been used to hold the milk.

Immediately after separating, the cream was divided equally into two shotgun cans. The two lots of the same cream were treated differently according to the different experiments. Each lot was delivered separately to the creamery where careful tests were made of the per cent butter fat, acidity and flavour of each. The cream was then put into two small cream vats, ripened and churned according to usual creamery methods.

Samples of the butter were kept in cold storage until December and scored at different periods.

A good deal of interesting and valuable information was obtained from these experiments, but the results were by no means conclusive, and further experiments will have to be made to obtain satisfactory and useful information for buttermakers and creamery patrons.

This work, I trust, will be continued in 1911 and, when completed, the results published in bulletin form.

GEO. H. BARR,  
*Chief, Dairy Division*

### CASEIN.

The dried curd of skimmed milk, which is known by the trade name of 'casein,' is likely to become an important by-product of the separator creamery if the present demand continues.

Casein is made by curdling skimmed milk with a weak solution of sulphuric acid and then getting rid of the free whey by heating and stirring in much the same manner as in the early stages of cheese manufacture. After the whey is run off, the curd is pressed for a few hours and then passed through a special mill, which tears the curd into small pieces. It is then put into a steam dryer out of which it comes as hard as bone and ready for shipment in sacks.

One hundred pounds of skimmed milk will yield 3 to 3½ pounds of dry casein. The whey from casein is said to be nearly as good as cheese whey for feeding purposes.

The special equipment for making casein, including vats, costs from \$300 to \$500, according to the size of the creamery.

The price paid for dried casein during the past year was 7 cts. per pound f.o.b. cars, but higher prices are now being offered.

The manufacture of casein may yet prove to be a strong inducement to patrons of separator creameries to continue that system in preference to the cream gathering or hand separator plan.

The demand for casein arises from its adaptability to a great variety of purposes in the technical arts. It is used for paper-sizing and wood-filling; in the manufacture of paints, pencil erasers, toilet creams and adhesives; as substitutes for ivory; in the preparation of certain proprietary foods and for many other purposes.

### THE MILK TEST ACT.

Reference was made in last year's report to the necessity for legislation to provide for the verification of milk test glassware. 'The Milk Test Act' became law on January 1, 1911. Being analogous to the Inspection of Weights and Measures,



FIG. 1.

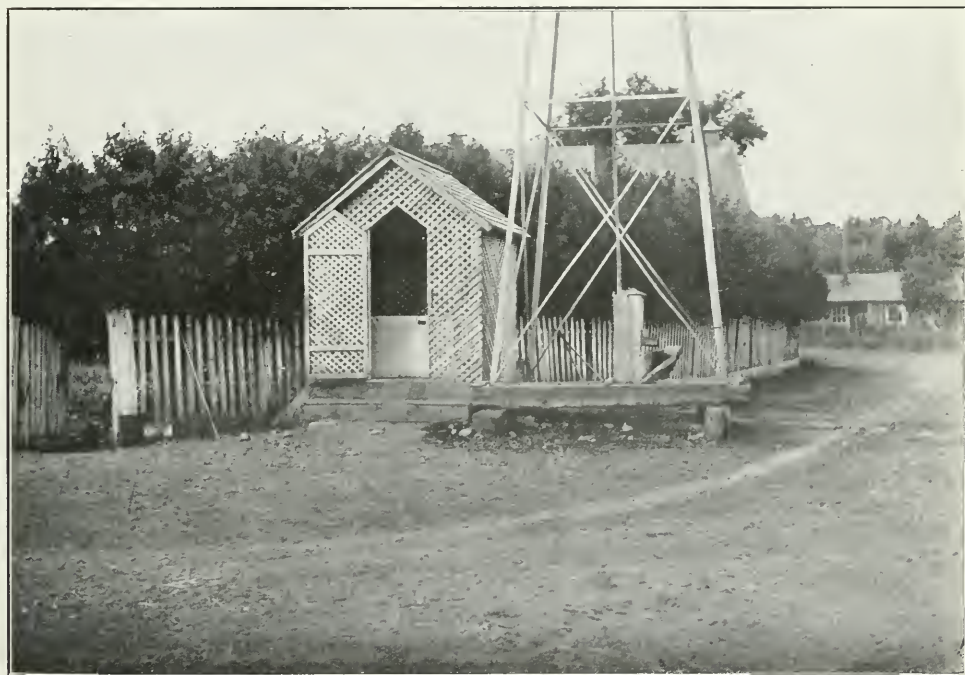


FIG. 2.

Farm near Renfrew from which Cream was taken for Experiments.







FIG. 1.

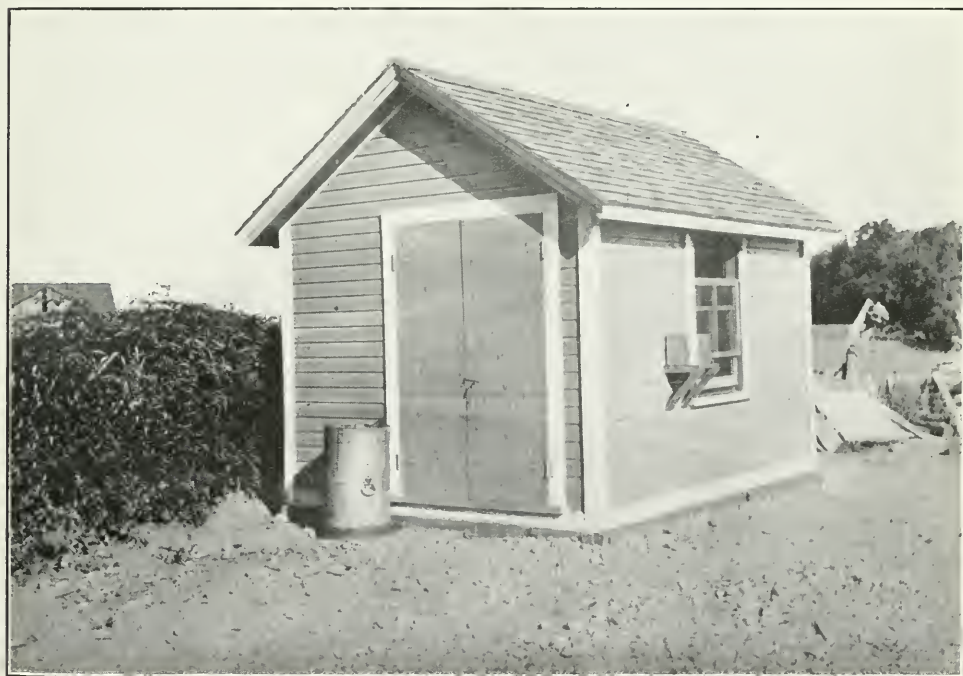


FIG. 2.

Farm near Renfrew from which Cream was taken for Experiments.





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the duty of verifying the glassware was assigned to the Standards Branch of the Department of Inland Revenue, Ottawa. Attention is called to this matter, because many packages of glassware are wrongly sent to this office for verification. The necessary transfer to the Inland Revenue Department involves some delay and unnecessary expense.

The following circular was sent to every cheese factory and creamery in Canada in October last:—

CIRCULAR—D. & C. 2.

DEPARTMENT OF AGRICULTURE,  
OFFICE OF THE  
DAIRY AND COLD STORAGE COMMISSIONER,  
OTTAWA, July 26, 1910.

## THE MILK TEST ACT.

*To Whom it may Concern:*

During the past two or three years, numerous complaints have been received respecting the inaccuracy of the glassware used in connection with the Babcock milk test. A prominent creamery owner sent in a 50 per cent cream test bottle in which the marking showed an error of 10 per cent.

The Chief of the Dairy Division and other members of the staff connected with the cow testing work, have found a large number of test bottles with incorrect graduation, the error in some cases being as much as .6 per cent.

The Dairymen's Association of western Ontario have by resolution asked for legislation to provide protection against the injustice which may arise from the use of this inaccurate glassware.

In view of these facts, the Minister asked Parliament at the last session to pass a law for the proper regulation of this important matter. The law is based on the same principle as that which relates to the inspection of weights and measures.

The full text of the 'Milk Test Act' and the regulations thereunder are reproduced herein for general information.

It will be observed that the Act comes into force on January 1, 1911.

The Chief Inspector of Weights and Measures, Standards Branch, Department of Inland Revenue, has intimated that he will be in a position to receive glassware for verification at any time after October 1 next. This will give ample time to have all test bottles and pipettes now in use verified before January 1, 1911, after which date no unauthorized test bottles or pipettes may be used.

Remittances to cover fees should be in the form of postal notes or express money orders, and payable to the 'Department of Inland Revenue.' Postage stamps cannot be accepted.

## 9-10 EDWARD VII., CHAPTER 59.

## AN ACT TO PROVIDE FOR THE TESTING OF GLASSWARE USED IN CONNECTION WITH MILK TESTS.

His Majesty, by and with the advice and consent of the Senate and House of Commons of Canada, enacts as follows:—

1. This Act may be cited as *The Milk Test Act*.

2. Every test bottle, pipette and measuring glass used in connection with the testing of milk or cream shall be tested for accuracy of measurement and accuracy of the per cent scale marked thereon, by such persons and at such places as are designated by the Governor in Council, and if found to be accurate shall be ineffaceably marked in the manner provided by regulations made under this Act.

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2. No other test bottle, pipette or measuring glass shall be so marked, nor shall any unauthorized person mark any test bottle, pipette or measuring glass used in connection with the testing of milk or cream in a manner which would indicate that it is accurate in accordance with this Act or with any regulation made thereunder.

3. No person shall sell or offer to sell any test bottle, pipette, or measuring glass used in connection with the testing of milk or cream unless it has been so tested and marked accurate.

4. No person shall use any test bottle, pipette or measuring glass in connection with the testing of milk or cream, if such testing is for the purpose of determining the value or the relative value of the said milk or cream, unless such test bottle, pipette, or measuring glass has been tested and marked accurate as provided by this Act.

5. Nothing in this Act shall apply to burettes or measures used in connection with the Babcock milk test for the measuring of sulphuric acid.

6. The Governor in Council may make regulations for the operation and enforcement of this Act, and may, by such regulations, establish fees for the verification of the apparatus therein referred to and also provide for the imposition of penalties not exceeding fifty dollars for each offence against this Act or against any regulation made thereunder.

2. Such regulations shall be in force from the date of their publication in *The Canada Gazette*, or from such other date as is specified in the proclamation in that behalf.

7. This Act shall come into force by proclamation of the Governor in Council.

#### PROCLAMATION.

Whereas in and by section 7 of an Act of the Parliament of Canada passed in the session thereof held in the ninth and tenth years of the reign of His late Majesty King Edward the Seventh, chaptered 59, and intituled 'An Act to provide for the testing of glassware used in connection with milk tests,' it is enacted that the said Act shall come into force by proclamation of our Governor in Council.

Now know ye, that by and with the advice of our Privy Council for Canada, we do hereby proclaim and direct that the said Act shall come into force upon, from and after the first day of January, in the year of our Lord one thousand nine hundred and eleven.

Of all which our loving subjects and all others whom these presents may concern, are hereby required to take notice and to govern themselves accordingly.

In Testimony whereof, we have caused these our letters to be made patent, and the Great Seal of Canada to be hereunto affixed. Witness, our trusty and well beloved the Honourable Désiré Girouard, Senior Judge of our Supreme Court of Canada, and Administrator of the Government of our Dominion of Canada.

At our Government House, in our city of Ottawa, this sixth day of July, in the year of our Lord one thousand nine hundred and ten, and in the first year of our reign.

By command.

THOMAS MULVEY,  
*Under Secretary of State.*

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## PRIVY COUNCIL, CANADA.

AT THE GOVERNMENT HOUSE AT OTTAWA,  
The 29th day of June, 1910.

PRESENT:

*His Excellency the Governor General in Council.*

Whereas by section 6 of *The Milk Test Act* it is provided as follows:—

‘The Governor in Council may make regulations for the operation and enforcement of this Act, and may by such regulations, establish fees for the verification of the apparatus therein referred to and also provide for the imposition of penalties not exceeding fifty dollars for each offence against this Act or against any regulation made thereunder.’

Therefore, His Excellency the Governor General in Council is pleased, in virtue of the above cited provisions of the said Act, to make the following regulations, to come into force on the date of their publication in *The Canada Gazette*:—

## REGULATIONS.

1. The duty of verifying the glassware which comes under the provisions of *The Milk Test Act* is hereby assigned to the Standards Branch, Department of Inland Revenue, Ottawa.

2. All test bottles, pipettes, or measuring glasses, used in connection with the testing of milk or cream, except skim-milk bottles and the tules used in connection with the apparatus known as the ‘Oil Test Churn,’ shall be forwarded, *charges prepaid*, to the Standards Branch, Department of Inland Revenue, Ottawa, for the purpose of verification.

3. All glassware sent for verification shall be received and returned at the owner’s risk.

4. All glassware sent for verification must be perfectly clean on both the inside and outside surfaces.

5. The Chief Inspector of Weights and Measures shall cause each bottle, pipette or measuring glass that is found correct within an error of one-tenth per cent, plus or minus, to be ineffaceably marked with the outline of a crown, having within it the initial letter of the reigning sovereign, and any such glassware not being found correct within the error herein specified, he shall cause to be destroyed without compensation to the owners thereof.

6. The fee for the verification of milk test glassware shall be 5 cents for each test bottle, pipette or measuring glass, which amount shall be forwarded to the Standards Branch, Department of Inland Revenue, Ottawa, with each consignment of glassware to be verified.

7. Packages containing glassware for verification must be plainly addressed, and bear the sender’s name and post office address, thus:—

To the Standards Branch,  
Department of Inland Revenue,  
Ottawa, Ont.

From John Jones,  
Montreal, Que.

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S. A Memorandum in the following form shall be enclosed with the glassware in each package:—

**Milk Test Glassware.**

To the Standards Branch,  
Department of Inland Revenue,  
Ottawa, Ont.

SIRS,—Please receive herewith the following milk test glassware for verification.

Number of Pieces.	De cription.	Fees.
.....	.....	.....
.....	.....	.....
.....	.....	.....
.....	.....	.....
.....	.....	.....

Inclosed please find.....in payment of fees.

This glassware is to be returned to John Jones, Montreal, Que.

9. Any person who violates any of the provisions of *The Milk Test Act* or the regulations made thereunder, shall be liable, on summary conviction thereof, to a fine not exceeding fifty dollars for each offence.

J. A. RUDDICK,  
*Dairy and Cold Storage Commissioner.*

**THE OFFICIAL REFEREE OF BUTTER AND CHEESE AT MONTREAL.**

There was so little demand for the services of the Referee during the season of 1909, that it did not seem necessary or justifiable to continue the office in 1910. It was with some regret that this decision was reached, for it is believed that if the services of the Referee were utilized as they might be, by the cheesemakers, butter-makers and salesmen, to obtain expert advice of an independent character, the office could be made very useful to the industry in Quebec and eastern Ontario. The Referee was appointed in the first place at the instance of the salesmen, and the position would still be occupied had they not failed to take advantage of it.

If there is any evidence at any time in the future which would indicate a disposition to make good use of the Referee, it is not likely that there will be any difficulty in having a competent man appointed to the position.

**THE SCOTSBURN CREAMERY.**

The county of Pictou, Nova Scotia, like many other districts in that province, is well adapted for the creamery industry, but for reasons which are not very clear, the industry made no progress in the county until recently.

In 1901, the farmers of Scotsburn, about nine miles from the town of Pictou, organized a co-operative creamery. They received some financial assistance from the provincial government, and this Branch undertook to operate the creamery on a commercial basis, charging the usual rate for manufacturing. Progress was slow at



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first, because the farmers needed education along dairy lines, and the class of cows had to be improved to make them profitable producers. Without the support of government operation, the creamery would have failed at the very beginning. It was uphill work at first, but in the last two years, the creamery has become the largest in the maritime provinces. The output of butter in 1910 was 107,715 pounds, and there is every prospect that it will be doubled in 1911.

Having reached this position, there was no longer any justification for government operation and the management was turned over to the Board of Directors on December 31st, 1910.

Many people said that factory dairying could not be made successful in Pictou county. We have proved that it can be, and the confidence which is thus established will be of great assistance in promoting the industry in the future.

## COW TESTING ASSOCIATIONS.

## GENERAL.

In 1910 there were 167 organized cow testing associations in Canada, with 1,143 members recording 11,850 cows. In addition, this Branch received records of 600 cows owned by 60 individual dairy farmers. Besides this, milk record forms were supplied free of charge to large numbers of dairymen who did not make any returns to the office. The general plan of the associations is outlined in bulletin No. 12.

Some members report that they have discontinued sending in records to the department because they have purchased milk testing machines and are making their own tests at home.

The many definite increases given in detail further on are the best proof of the usefulness of the plan. A great many dairymen write of an added yield of 700 or 800 pounds of milk per cow over the 1909 production due largely to better care and attention as a result of weighing each cow's milk twice a day. More than 20,000 forms for daily records were supplied by this Branch.

The following extract from a letter received from a member is typical of many: 'Before testing I offered to sell one cow for \$45. Now that I have her records I would not take \$100 for her.'

At several auction sales of grade cows, prices ranging from \$95 to \$230 were obtained. Why? Because the vendors had records to produce as certificates of efficiency.

Decided improvement is noticeable in the average yield of many herds. Heifers from cows selected on their records and bred to a good pure bred dairy sire are now coming into milk and justifying the wisdom of the procedure.

For instance, in one herd of 18 cows, 11 give a total yield of 111,958 pounds of milk, an average of 10,178 pounds each. No scrub sire is likely to assist in such a performance.

Some good herd averages would be even higher but that the owners as sellers of good breeding stock have sold some of the best cows.

Dairy tests, or milking competitions, were conducted by members of the staff at Woodstock, Ont., Sherbrooke, Que. and Sussex, N.B. These competitions, held at the time of the fall fairs, attracted a very great deal of attention both from visitors on the grounds and through the fact of the detailed results being widely circulated through the public press. At Woodstock, this being the second year of a test of this nature, the effect was to increase considerably the exhibit of cattle. One result likely to follow is that farmers in western Ontario, wanting to purchase really good stock, will come to regard Woodstock Fair as the best market. A cup for competition is promised for the 1911 test by one of the cattle breeders associations.

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At Toronto exhibition, two members of the staff were in attendance in the dairy building to give information specially on cow testing; at Peterborough, Ont., and the Ottawa winter fair, similar work was done, considerable interest was manifested, and the plan thereby brought to the attention of numerous dairy farmers and factory officials.

#### TWO SUGGESTIONS.

Factory owners are becoming alive to the value of cow testing in augmenting the milk supply, thus for one thing decreasing the cost of making, and some are offering to supply members of associations with bottles free of cost.

A similar generous offer was made by the officials of the dairy school at St. Hyacinthe, Que.

It will be remembered that for a competitive cow test the sum of \$1,000 as prizes was lately offered by the publishers of a farm journal in Illinois, this opens a new field for sowing the surplus wealth of some Canadian publishers. A widespread educative movement of this nature might well call forth also the assistance of manufacturers of farm and dairy machinery for instance, because a large, practical, concerted movement of this nature means the addition of a great many thousand dollars to the returns through the factories. It is impossible as yet to gauge the full measure of what this means to hundreds of farm homes. Ambition is displacing indifference, drudgery becomes pleasure, poverty turns to affluence, the wives and children are being provided with more comforts and better education, just in proportion as the poor cows are despatched. Human energy is saved, valuable time is turned to profitable account as the better cows are selected on their records.

For instance, the owner of herd 'B,' Spencerville, in Table I, is keeping *thirteen cows* to produce less milk and fat than is given by *seven cows* in herd 'D,' Innerkip. Think of the extra outlay in every way that this means, cash invested, larger stables, feed, time and most important of all, an enormous equivalent in machine horse-power of good valuable human energy that needs conserving on every dairy farm so that it may be turned to profitable account.

One of the most energetic and enthusiastic group of members is found in the association at Bertie, Ont. As one outcome of cow testing a two-day course in stock judging was arranged for. A tremendous impetus to the whole question of dairying in this progressive district has been given by cow testing.

Other associations might well copy this example. A good live secretary can be of immense service to his association. Probably it would be a good thing for the secretaries of all associations in each province to get together and talk things over with a view of more systematic development of the work. Officers of associations are invited to think about this.

#### BUILDING UP A PROFITABLE HERD.

'Two months ago we sold our poorest cow, she gave 7,014 pounds of milk in just nine months. We have derived considerable benefit from keeping daily records, it is both interesting and profitable,' thus writes one of the members of a Quebec association, and his letter is typical of many that are constantly being received at this office. This is an indication of what really good and profitable herds are being built up by men who decide to discard their poorest cows, even rating as poor cows such as give 7,000 pounds of milk.

Another instance may be quoted to show of what value records are. Mr. W. E. Mason, of Tyrrell, Ont., writes: 'I sold a grade heifer coming three years old for \$150. The chief attraction about her was her record of 6,965 pounds of milk in six months.'

A record of much interest is that of the herd of Mr. Jas. Hotson, Innerkip, Ont. A complete account of the yield of milk and fat as well as cost of feed is kept with

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each cow, with the result that the year's operations show a clear profit above the cost of feed with each of the 13 grade cows varying from \$23.15 from a 3-year-old, up to \$37.25 from an aged cow.

The lowest yield was 6,210 pounds of milk and 232 pounds of fat from the 3-year-old, and even with this comparatively low yield, the average of the herd, including one farrow cow, is 8,249 pounds of milk, and 273 pounds of fat, with an average income of \$65.37 per cow. The average cost of feed was \$33.70, varying from \$29.02 up to \$45, thus the average net profit is \$33.20 per cow.

## RESULTS AT THE METAIRIE ST. JOSEPH, ST. HYACINTHE, QUE.

In 1906, the average yield of 51 cows was 3,997 pounds of milk; in 1907, 45 cows averaged 4,679 pounds; in 1908, with 50 cows the average was 4,561 pounds; in 1909, 45 cows gave 5,495 pounds; and in 1910 the average yield of 48 cows was 5,979 pounds.

This is an increase of 1,982 pounds of milk in four years, or an increase in the yield of *fifty per cent.*

During that time 32 cows have been beefed, and 13 cows in the present herd giving less than 5,000 pounds of milk are to go. There will then be in the herd 15 cows that in 1910 gave 6,000 pounds of milk or over, and 20 cows whose present records run from 7,000 to 9,000 pounds each.

There are 22 heifers on hand now as against 5 in 1906.

In 1906 the average cost of feed was \$23.84 and the net profit \$46.37 per cow. In 1910 the feed cost \$53.90, but the profit was \$84.95 per cow. Thus, while the cost of feed has increased by \$30.06 the net profit has increased by \$38.58.

This shows excellent management on the part both of the Reverend Sisters owning the herd, and the genial farm foreman. Visitors are made cordially welcome, and farmers in the vicinity are highly privileged to have this businesslike herd as an inspiration and indication of what may be done through intelligent cow testing.

A record of interest is that of the herd of Oscar Perreault, St. Paul de Joliette, Que. The total yield of five cows was 21,850 pounds of milk: these are readily divided into two groups.

The three best cows gave 14,250 pounds of skim milk, at	/
15 cents, equals. . . . .	\$ 21 37
Add receipts from the creamery and from butter made at	
home. . . . .	176 16
	<hr/>
	\$197 53

or an average of \$65.85 per cow.

The two other cows gave 7,600 pounds of skim milk, at 15	
cents, equals. . . . .	\$ 11 40
Add receipts from creamery and from butter made at	
home. . . . .	53 74
	<hr/>
	\$70 14

or, an average of only \$35.07 per cow; not much over half the income per cow from the other three.

The five cows brought in as gross receipts a total of \$267.67, while besides the roughage grown on the farm, the only feed purchased was 500 pounds of linseed meal at \$2.25, and 200 pounds of oat chop at \$1.50, a total cost of \$14.25.

It is desired again to call attention to the herd owned by Mr. S. A. Freeman of Culloden, Ont. Last year's report contained a reference to the substantial increase made from 5,149 pounds of milk per cow in 1906 to 6,708 pounds per cow in 1909.

It was then stated that Mr. Freeman hoped to reach a standard of 8,000 pounds per cow for 70 cows. It is particularly interesting to note how one's ideals may advance and enlarge, for Mr. Freeman has recently stated in public that he is now aiming at 10,000 pounds of milk for each of 80 cows.

The 1910 average is 7,515 pounds of milk for each cow, with average cash receipts of \$93 per cow. Twelve of the best cows gave an average of 10,426 pounds each. The gain of 2,366 pounds in the average yield per cow is attributed by Mr. Freeman mostly to weighing and keeping records so as to know definitely which cows to sell.

RECORDS SHOULD BE COMPLETE.

The number of cows whose records are compiled for the full period of lactation could be increased by some thousands if only the members would continue to send in their records for the season instead of discontinuing after six or seven months' weighing and sampling.

The records would then be of infinitely more interest and value. As it stands at present a great many cows of excellent promise have to be omitted just because of this lack of another month or two of records. Could these be included, the average yields here given would be raised, for several incomplete records reach such encouraging totals as 10,506 pounds of milk and 342 pounds of fat and even 12,320 pounds of milk and 377 pounds of fat in eight months, 11,330 pounds of milk and 330 pounds of fat in nine months, and 13,470 pounds of milk and 452 pounds of fat in 10 months.

FEED RECORDS.

There has been a brisk demand for the feed record form supplied by this Branch, and to assist in arriving at the net profit earned by each cow a small herd record book was issued for keeping a monthly account with each cow of the quantities and values of milk, butter fat and feed. This herd record book has met a widespread need.

TABLE I.—Comparisons between Herds in the Province of Ontario for the Full Period of Lactation, 1910

Name of Association.	Herd.	No. of Cows.	TOTAL YIELD OF HERD.		AVERAGE YIELD PER Cow.		
			Milk.	Fat.	Milk.	Test.	Fat.
			Lbs.	Lbs.	Lbs.		Lbs.
Arkona.....	A	8	47,751	1,739.8	5,969	3.6	217.4
".....	B	11	59,240	2,151.2	5,585	3.6	195.5
".....	C	3	14,730	521.1	4,710	3.6	173.7
".....	D	4	17,793	678.1	4,448	3.8	169.5
Avonbank.....	A	8	54,376	1,927.3	6,797	3.5	240.9
".....	B	6	40,407	1,443.4	6,734	3.6	240.5
".....	C	14	84,655	2,976.5	6,047	3.5	212.6
".....	D	7	47,122	1,813.9	6,731	4.2	250.1
".....	E	10	64,957	2,177.4	6,495	3.3	217.7
".....	F	9	54,390	2,057.5	6,043	3.7	228.6
".....	G	4	24,237	883.2	6,059	3.6	222.6
".....	H	8	63,177	2,316.6	7,898	3.6	289.5
".....	I	3	19,880	736.4	6,626	3.7	245.1
".....	J	9	55,647	2,060.1	6,163	3.7	228.9
Bertie.....	A	7	47,291	1,769.5	6,755	3.7	252.7
".....	B	2	15,765	625.2	7,882	3.9	312.6
".....	C	2	8,443	288.3	4,221	3.4	144.1
".....	D	1	5,923	224.4	5,923	3.7	221.4
".....	E	2	14,696	511.8	7,348	3.4	255.9
".....	F	1	5,605	198.4	5,605	3.3	198.4



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TABLE I.—Comparisons between Herds in the Province of Ontario for the Full Period of Lactation, 1910—*Continued.*

Name of Association.	Herd.	No. of Cows.	TOTAL YIELD OF HERD.		AVERAGE YIELD PER COW.		
			Milk.	Fat.	Milk.	Test.	Fat.
			Lbs.	Lbs.	Lbs.		Lbs.
Bertie.....	G	2	11,990	411.4	5,995	3.4	205.7
".....	H	3	26,229	969.9	8,763	3.6	323.3
".....	I	3	12,910	452.3	4,303	3.5	150.7
".....	J	1	5,980	193.4	5,980	3.2	193.4
Black Creek.....	A	1	8,740	301.4	8,740	3.4	301.4
".....	B	7	52,443	1,788.5	7,942	3.4	255.5
".....	C	8	46,922	1,686.5	5,865	3.5	210.8
".....	D	5	44,851	1,465.4	8,988	3.2	293.1
".....	E	2	11,036	391.6	5,518	3.5	195.8
".....	F	8	48,765	1,861.4	6,083	3.8	242.7
Bluevale.....	A	2	13,125	500.7	6,562	3.8	250.3
Burgessville.....	A	7	51,900	1,640.2	7,414	3.1	224.3
".....	B	1	7,100	193.9	7,100	2.9	193.9
".....	C	3	16,230	634.8	5,426	3.9	211.6
".....	D	2	19,430	646.5	9,715	3.2	323.2
".....	E	1	4,835	167.3	4,835	3.4	167.3
".....	F	5	36,085	1,092.7	7,217	3.0	218.5
".....	G	2	19,229	543.2	9,614	2.8	271.6
".....	H	8	40,555	1,397.5	5,073	3.4	174.7
".....	I	2	10,137	347.0	5,068	3.4	173.5
".....	J	2	11,260	380.1	5,630	3.4	190.0
Ballymore.....	A	8	47,790	1,491.8	5,973	3.1	186.4
".....	B	5	25,136	846.3	5,027	3.3	169.2
".....	C	5	28,959	973.8	5,791	3.3	195.7
".....	D	4	24,047	822.0	6,011	3.4	205.5
".....	E	5	29,800	1,018.7	5,960	3.4	203.7
Bathurst Mutual.....	A	9	45,190	1,658.6	5,012	3.6	184.2
".....	B	11	41,737	1,445.7	3,994	3.4	131.4
Brooklin.....	A	1	4,860	158.3	4,860	3.2	158.3
".....	B	3	16,898	589.6	5,632	3.5	196.5
Brooksdale.....	A	4	23,430	828.8	5,857	3.5	207.2
".....	B	9	53,110	1,893.1	5,901	3.5	210.3
".....	C	4	29,581	1,055.2	7,395	3.5	263.8
".....	D	1	3,693	161.6	3,693	4.3	161.6
Caulachie.....	A	2	8,540	327.8	4,270	3.8	163.9
".....	B	6	35,534	1,190.5	5,922	3.3	198.1
".....	C	2	10,130	352.3	5,065	3.4	176.1
Canboro.....	A	5	41,010	1,379.9	8,202	3.3	275.9
".....	B	11	63,392	2,200.1	5,763	3.4	200.0
Cassel.....	A	10	75,674	2,463.1	7,567	3.2	243.3
".....	B	8	40,017	1,362.5	5,002	3.4	170.3
".....	C	4	19,869	657.8	4,967	3.3	164.4
".....	D	1	5,360	167.0	5,300	3.1	167.0
".....	E	5	34,804	1,249.9	6,960	3.6	249.9
".....	F	3	20,365	647.7	6,788	3.1	215.9
".....	G	6	38,411	1,297.1	6,402	3.3	216.2
".....	H	11	75,315	2,751.8	6,846	3.6	250.1
".....	I	3	25,120	877.7	8,373	3.1	292.5
".....	J	2	12,380	438.3	6,190	3.5	219.1
".....	K	2	9,720	347.9	4,860	3.5	173.9
".....	L	14	73,451	2,401.5	5,246	3.2	171.5
".....	M	3	18,900	654.1	6,300	3.4	218.0
Central Smith.....	A	12	71,691	2,484.1	5,974	3.4	207.0
".....	B	2	12,345	457.4	6,172	3.6	228.7
".....	C	13	109,258	3,575.8	8,404	3.2	275.0
".....	D	5	32,454	1,183.4	6,490	3.6	236.7
".....	E	3	24,180	817.0	8,060	3.4	272.3
Corinth.....	A	6	28,020	1,027.7	4,670	3.6	171.3
".....	B	4	19,074	617.5	4,718	3.2	151.3
".....	C	1	4,630	153.0	4,630	3.3	153.0
".....	D	1	5,835	155.3	5,835	2.6	155.3



2 GEORGE V., A. 1912

TABLE I.—Comparisons between Herds in the Province of Ontario for the Full Period of Lactation, 1910—*Continued.*

Name of Association.	Herd.	No. of Cows.	TOTAL YIELD OF HERD.		AVERAGE YIELD PER COW.		
			Milk.	Fat.	Milk.	Test.	Fat.
			Lbs.	Lbs.	Lbs.		Lbs.
Dalmeny .....	A	10	60,436	2,231.4	6,043	3.6	223.1
" .....	B	5	26,788	997.6	5,357	3.7	199.5
East and West Oxford .....	A	14	163,678	3,187.6	7,405	3.0	221.1
" .....	B	4	20,533	876.1	5,133	4.2	219.0
" .....	C	3	28,894	817.2	9,631	2.9	282.1
" .....	D	4	35,211	1,227.3	8,802	3.5	306.8
Elma .....	A	11	43,867	1,501.2	3,988	3.4	136.4
" .....	B	7	49,716	1,521.6	5,816	3.7	217.2
" .....	C	12	64,840	2,298.5	5,403	3.5	191.5
" .....	D	3	15,675	561.3	5,225	3.6	187.1
" .....	E	8	42,607	1,450.7	5,326	3.4	181.3
" .....	F	12	73,393	2,822.8	6,116	3.8	235.2
" .....	G	8	42,579	1,715.1	5,322	4.0	214.4
" .....	H	5	20,699	723.6	4,139	3.5	144.7
" .....	I	11	66,9.3	2,321.4	6,089	3.4	211.9
" .....	J	9	59,551	2,017.9	6,616	3.3	224.2
" .....	K	7	34,749	1,259.7	4,971	3.6	179.9
" .....	L	10	56,968	1,919.3	5,696	3.3	191.9
" .....	M	11	61,094	2,178.9	5,546	3.5	198.0
" .....	N	8	47,392	1,705.7	5,921	3.6	214.4
" .....	O	7	38,516	1,345.8	5,502	3.5	192.2
" .....	P	4	21,310	754.1	5,327	3.5	188.5
" .....	Q	5	27,903	1,046.3	5,580	3.7	209.2
German Union .....	A	4	20,701	711.3	5,175	3.4	177.8
" .....	B	7	47,160	1,547.4	6,737	3.2	221.0
" .....	C	4	23,450	887.8	5,862	3.7	221.9
" .....	D	6	40,585	1,456.5	6,764	3.6	212.7
" .....	E	10	59,655	2,217.2	5,965	3.7	221.7
" .....	F	11	75,016	2,638.0	6,819	3.5	239.8
" .....	G	6	34,873	1,150.7	5,812	3.3	191.7
" .....	H	6	29,940	935.9	4,990	3.1	155.9
Hickson .....	A	10	68,080	2,435.0	6,808	3.5	243.5
Innerkip .....	A	16	77,330	2,922.4	4,836	3.7	182.6
" .....	B	15	83,025	3,171.8	5,535	3.8	211.4
" .....	C	4	25,093	975.5	6,273	3.9	243.8
" .....	D	7	60,992	1,971.3	8,713	3.2	281.6
" .....	E	4	33,280	1,060.6	8,320	3.2	265.1
Keene .....	A	5	38,933	1,200.7	7,786	3.1	240.1
" .....	B	3	16,340	583.6	5,436	3.5	194.5
" .....	C	4	26,052	876.8	6,513	3.3	219.2
" .....	D	7	44,862	1,541.3	6,408	3.4	220.2
Kerwood .....	A	4	25,792	981.6	6,448	3.8	245.4
" .....	B	1	3,733	139.8	3,733	3.5	139.8
" .....	C	5	26,020	1,250.1	5,204	4.8	250.0
Kintore .....	A	6	44,730	1,447.1	7,455	3.2	241.2
Lorneville .....	A	1	3,980	137.6	3,980	3.4	137.6
" .....	B	5	27,745	956.4	5,549	3.4	191.2
Maple Grove .....	A	5	23,190	907.3	4,620	3.9	181.4
Milton .....	A	15	124,953	4,291.8	8,830	3.4	286.1
" .....	B	2	11,050	382.2	5,525	3.5	191.1
" .....	C	2	18,490	673.6	9,245	3.6	336.8
Morewood .....	A	1	7,410	269.2	7,410	3.6	269.2
McDonald .....	A	16	72,151	2,911.0	4,509	4.0	181.3
Norwich Gore .....	A	11	100,060	3,183.2	9,096	3.1	289.4
" .....	B	6	40,335	1,518.7	6,722	3.7	253.1
" .....	C	2	12,560	404.1	6,280	3.2	202.0
" .....	D	4	25,330	828.4	6,332	3.1	207.1
" .....	E	4	20,965	668.1	5,241	3.2	167.0
" .....	F	3	16,330	490.4	5,413	3.0	163.4
Norwich Junction .....	A	1	3,870	130.8	3,870	3.3	130.8
" .....	B	3	15,132	487.5	5,044	3.2	162.5

## SESSIONAL PAPER No. 15a

TABLE I.—Comparisons between Herds in the Province of Ontario for the Full Period of Lactation, 1910—*Concluded*.

Name of Association.	Herd.	No. of Cows.	TOTAL YIELD OF HERD.		AVERAGE YIELD PER COW.		
			Milk.	Fat.	Milk.	Test.	Fat.
			Lbs.	Lbs.	Lbs.		Lbs.
Peterboro .....	A	4	25,799	870.3	6,449	3.3	217.5
" .....	B	6	36,634	1,397.3	6,105	3.8	232.5
Pine Grove .....	A	1	6,318	256.6	6,318	4.0	256.6
" .....	B	1	11,599	483.4	11,599	4.2	483.4
Prescott .....	A	25	142,509	5,012.0	5,700	3.5	200.4
" .....	B	10	50,881	1,847.3	5,088	3.0	151.7
Rockford .....	A	15	180,492	3,889.0	8,659	3.0	259.9
" .....	B	3	13,274	448.9	4,424	3.4	143.6
" .....	C	1	6,380	206.6	6,380	3.2	206.6
Shearer .....	A	7	46,392	1,428.4	6,627	3.0	204.0
" .....	B	8	58,362	1,730.8	7,295	2.9	216.3
" .....	C	12	65,122	2,242.8	5,427	3.4	186.9
" .....	D	11	76,820	2,629.5	6,983	3.4	239.0
Spencerville .....	A	19	47,619	1,595.3	4,761	3.3	159.5
" .....	B	13	51,040	1,827.3	4,157	3.4	140.5
" .....	C	7	28,856	1,036.3	4,115	3.6	148.0
" .....	D	8	39,943	1,442.1	4,993	3.6	180.2
" .....	E	10	52,984	1,888.1	5,298	3.5	188.8
" .....	F	4	20,055	679.1	5,013	3.3	169.7
Spring Creek .....	A	5	60,310	2,003.2	12,068	3.3	400.6
" .....	B	7	49,643	1,513.8	7,092	3.0	216.5
" .....	C	9	71,766	2,492.3	7,963	3.4	276.9
" .....	D	1	7,850	244.0	7,850	3.1	244.0
" .....	E	5	44,459	1,736.9	8,890	3.9	347.4
" .....	F	11	77,895	2,446.9	7,081	3.1	222.4
" .....	G	1	5,130	149.5	5,130	2.9	149.5
" .....	H	6	32,349	1,027.4	5,391	3.1	171.2
" .....	I	7	39,271	1,406.0	5,610	3.6	200.9
Star .....	A	9	58,364	1,793.4	6,431	3.0	199.2
" .....	B	7	43,838	1,456.6	6,262	3.3	208.1
St. George .....	A	5	41,326	1,376.7	8,265	3.3	275.3
" .....	B	3	20,182	698.5	6,727	3.4	232.8
" .....	C	1	3,650	130.9	3,650	3.6	130.9
" .....	D	2	6,660	233.9	3,330	3.5	116.9
" .....	E	3	20,800	669.0	6,933	3.2	223.0
St. Mary's .....	A	4	21,950	767.2	5,487	3.5	191.8
" .....	B	3	18,845	610.3	6,281	3.2	203.4
Thamesford .....	A	13	102,542	3,109.3	7,887	3.0	239.1
" .....	B	10	55,734	1,781.0	5,573	3.2	178.1
Thedford .....	A	6	33,664	1,113.4	5,610	3.3	185.5
" .....	B	2	14,858	467.7	7,429	3.1	233.8
" .....	C	5	33,049	1,033.9	6,669	3.1	207.8
" .....	D	4	24,913	800.9	6,228	3.2	200.2
Trewern .....	A	4	19,921	666.8	4,980	3.3	166.7
Trowbridge .....	A	9	43,377	1,704.8	5,153	3.6	189.4
" .....	B	6	33,672	1,235.0	5,612	3.6	205.8
" .....	C	10	45,601	1,608.6	4,560	3.5	160.8
" .....	D	5	29,279	1,329.2	5,855	4.5	265.8
Wallace .....	A	3	21,911	722.1	7,393	3.3	240.7
" .....	B	6	32,665	1,183.3	5,444	3.6	197.2
" .....	C	5	22,960	751.5	4,592	3.3	150.3
" .....	D	12	59,244	1,957.9	4,937	3.3	166.5
" .....	E	10	39,884	1,394.5	3,983	3.5	139.4
Westwood .....	A	3	15,025	503.7	5,008	3.9	197.9
" .....	B	6	31,618	1,075.9	5,269	3.4	179.3
Wooler .....	A	6	36,547	1,456.6	6,091	3.9	242.7
" .....	B	5	24,018	872.6	4,803	2.6	174.5
" .....	C	8	42,615	1,447.1	5,327	3.3	180.9

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The average yield of the 1,185 cows in this table is 6,162 pounds of milk, 3.46 test, 213.3 pounds of fat.

The first glance over the table impresses the fact that this average is very lenient on the herds at Bathurst, Elma and Wallace that reach only to 3,990 pounds of milk, or 2,172 pounds below the general average.

The comparison in this table between herd A, Spring Creek, and herd B, Bathurst Mutual, reveals the startling fact that the owner of the latter herd would have to keep actually *three times as many cows* to produce as much milk and fat as the former herd.

*The five cows* gave 60,340 pounds of milk; it would thus take *fifteen cows* with an average of only 3,994 pounds of milk each as obtained in herd B to equal the total yield of the five cows.

This seems to be an instance in the one case of the cows working for the farmer, and in the other of the farmer working for the cows.

A good yield is found in herd A, Norwich Junction, where 11 cows average 9,096 pounds of milk, 3.1 test, 289 pounds of fat. This, again, is in strong contrast with herd A, Elma, where 11 cows average only 3,988 pounds of milk, 3.4 test, 136 pounds of fat, *less than half*.

Several such excellent individual yields as:

8,230	pounds of milk,	265	pounds of fat.
8,600	"	"	"
9,000	"	"	"
10,000	"	"	"
11,500	"	"	"
12,420	"	"	"
13,530	"	"	"

are included in these averages, but have to be ruthlessly pulled down to a herd level in presenting a summary of this nature. Their real prominence is completely obscured in any average results, whether of the herd to which they belong, or the group of herds in the association, or the totals of associations in the province. The major portion of their beauty and distinctiveness is entirely dissipated in increasing by just a mere fraction the yields of herds that average only 5,000 pounds of milk and 173 pounds of fat, or 4,500 pounds of milk and 161 pounds of fat.

When it is definitely established that individual cows possessing the capacity of producing these heavy yields are found in increasing numbers in various parts of the Dominion, is it not high time for our ordinary factory patrons to commence and to persevere in cow testing so that our general standard of production may be quickly raised?

SESSIONAL PAPER No. 15a

TABLE II.—Comparisons between Herds in the Province of Ontario, for the Full Period of Lactation, 1910, Weights Only.

Name of Association.	Herd.	No. of Cows.	TOTAL YIELD OF HERD.	AVERAGE YIELD PER COW.
			Milk.	Milk.
			Lbs.	Lbs.
Avonbank.....	A	8	54,529	6,816
B-Inmont.....	A	1	7,941	7,941
Black Creek.....	A	4	19,930	4,982
Cleland.....	A	10	37,236	3,723
Corinth.....	A	8	55,806	6,975
Culloden.....	A	33	230,960	6,999
Glanworth.....	A	15	95,900	6,393
".....	B	18	111,665	6,203
".....	C	5	31,483	6,296
Harrietsville.....	A	6	59,466	9,911
".....	B	2	8,869	4,434
Keene.....	A	2	13,740	6,870
Mapleton.....	A	5	24,754	4,950
".....	B	6	44,722	7,453
".....	C	2	9,708	4,854
North Oxford.....	A	10	74,792	7,479
".....	B	5	42,972	8,594
".....	C	5	35,487	7,097
".....	D	7	36,103	5,157
".....	E	8	57,520	7,190
".....	F	14	71,623	5,116
Reabro.....	A	5	25,045	5,009
South Lanark.....	A	9	41,948	4,661
".....	B	9	48,343	5,371
".....	C	7	27,271	3,895
".....	D	10	52,840	5,284
".....	E	16	97,917	6,119
".....	F	1	4,980	4,980
".....	G	17	108,107	5,284
".....	H	4	20,330	5,082
Spencerville.....	A	9	38,881	4,320
Springford.....	A	15	98,662	6,577
St. Mary's.....	A	9	64,723	7,191
Vernon.....	A	16	86,224	5,389
Verschoyle.....	A	16	97,736	6,108
".....	B	12	59,101	4,925
".....	C	15	88,210	5,880

The average yield of the 344 cows in this table is 6,056 pounds of milk.

The variation in yield is from 3,723 pounds per cow in the Cleland Association, up to 9,911 pounds in Herd A, Harrietsville.

The *five cows* in herd B, North Oxford, give over 4,000 pounds of milk *more than the nine cows* at Spencerville.

What a conservation of human energy on our farms there would be if *better cows* were kept.

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TABLE III.—Comparisons between Individual Herds in the Province of Ontario for the Full Period of Lactation, 1910, Weights Only.

	Herd No.	No. of Cows.	TOTAL YIELD OF HERD.	AVERAGE YIELD PER COW.
			Milk.	Milk.
			Lbs.	Lbs.
Individual. ....	1	7	35,938	5,154
" .....	2	4	17,038	4,259
" .....	3	10	67,125	6,712
" .....	4	3	15,481	5,160
" .....	5	4	25,019	6,254
" .....	6	3	18,208	6,069
" .....	7	2	9,454	4,727
" .....	8	4	38,105	9,526
" .....	9	2	14,271	7,135
" .....	10	12	61,901	5,158
" .....	11	11	59,018	5,365
" .....	12	3	15,922	5,307
" .....	13	6	38,361	6,393
" .....	14	18	152,047	8,447
" .....	15	18	130,777	7,265
" .....	16	17	97,195	5,717
" .....	17	17	96,523	5,677
" .....	18	3	14,259	4,753
" .....	19	7	53,420	7,631

The average yield of the 151 cows in this table is 6,424 pounds of milk.

In herd No. 14 are three individual records of over 10,200 pounds of milk, the lowest yield in the herd is 6,160 pounds. The average yield of 8,447 pounds for the 18 cows is noteworthy.

The average of herd No. 10 is materially lowered by two yields of 3,940 and 2,493 pounds of milk (the ages of the two cows have not been given by the owner), there are yields of 6,460 and 7,380 among the 12 cows.

With the great majority of cows whose records are received, the full period of lactation falls within the calendar year. Some, however, are milking perhaps for five or six months in one year and four or five in the next year; such records, as well as those of several farrow cows that have been milking more than one year, are included in the tables of twelve months' production.

Many herds appear with only a small number of cows on account of this division.



## SESSIONAL PAPER No. 15:

TABLE IV.—Comparisons between Herds in the Province of Ontario for Twelve Months' Production, 1910.

Name of Association.	Herd.	No. of Cows.	TOTAL YIELD OF HERD.		AVERAGE YIELD PER COW.		
			Milk.	Fat.	Milk.	Test.	Fat.
			Lbs.	Lbs.	Lbs.		Lbs.
Avonbank.....	A	1	4,250	161.1	4,250	3.7	161.1
".....	B	2	10,618	401.1	5,309	3.7	200.8
Beaverton.....	A	5	29,042	1,148.3	5,808	3.9	229.6
Bertie.....	A	2	12,670	439.2	6,335	3.4	219.6
".....	B	4	31,693	1,151.6	7,773	3.7	287.9
".....	C	3	16,081	571.8	5,360	3.5	190.6
".....	D	1	7,259	215.9	7,259	2.9	215.9
".....	E	3	15,640	684.9	5,213	4.3	228.3
".....	F	2	10,610	379.0	5,305	3.5	189.5
".....	G	2	15,425	518.4	7,712	3.3	250.2
".....	H	4	24,423	884.6	6,105	3.6	221.1
".....	I	3	15,150	631.0	5,050	4.1	210.3
".....	J	3	19,535	756.4	6,511	3.9	252.1
".....	K	4	22,542	798.6	5,635	3.5	199.6
".....	L	4	35,032	1,476.5	8,758	4.2	369.1
".....	M	8	45,531	1,686.1	5,681	3.7	210.7
Black Creek.....	A	6	46,397	1,576.9	7,732	3.3	262.8
".....	B	3	20,218	774.1	6,739	3.8	285.0
".....	C	3	35,330	1,127.4	11,777	3.1	375.8
".....	D	7	54,530	1,783.1	7,790	3.2	254.7
".....	E	6	38,597	1,540.1	6,433	4.0	256.6
".....	F	2	22,968	736.2	11,484	3.2	348.1
Brooksdale.....	A	13	87,730	3,227.9	6,748	3.6	248.3
".....	B	2	17,140	615.0	8,750	3.6	307.5
".....	C	3	25,739	872.9	8,579	3.6	290.9
Brooklin.....	A	3	16,123	556.4	5,374	3.4	185.4
".....	B	7	45,528	1,533.0	6,504	3.3	219.0
Burgessville.....	A	2	18,280	554.0	9,140	3.0	227.0
".....	B	1	6,145	244.3	6,145	4.0	244.3
".....	C	1	9,444	288.4	9,444	3.2	288.4
".....	D	1	8,355	253.3	8,355	3.0	253.3
Camlachie.....	A	5	35,581	1,063.8	6,116	3.4	212.7
".....	B	4	18,811	718.2	4,702	3.8	179.5
".....	C	2	8,479	290.0	4,239	3.4	145.0
Cassel.....	A	5	22,940	1,087.2	5,988	3.6	217.4
".....	B	2	12,080	499.7	6,040	4.1	249.8
".....	C	3	23,062	882.9	7,687	3.8	294.3
".....	D	2	17,438	607.9	8,719	3.5	303.9
".....	E	3	24,115	869.0	8,038	3.6	289.6
".....	F	1	7,460	289.1	7,460	3.8	289.1
Central Smith.....	A	6	54,910	1,822.3	9,151	3.3	303.7
Palmeny.....	A	9	53,801	2,152.7	6,144	3.8	236.9
East and West Oxford.....	A	3	38,455	1,122.8	12,818	2.9	377.6
".....	B	11	107,575	3,645.5	9,779	3.4	331.4
Elma.....	A	1	6,320	229.1	6,320	3.6	229.1
".....	B	2	14,381	479.2	7,199	3.3	239.6
".....	C	2	9,680	499.4	4,840	4.1	209.2
".....	D	1	5,925	224.8	5,925	3.8	224.8
".....	E	2	15,794	526.8	7,897	3.3	263.4
German Union.....	A	2	13,530	467.1	6,765	3.4	233.5
".....	B	8	52,391	2,006.4	6,549	3.8	250.8
Hickson.....	A	6	48,568	1,645.8	8,094	3.4	274.3
Innerkip.....	A	13	107,237	3,560.9	8,249	3.4	273.7
".....	B	7	56,460	1,848.7	8,065	3.2	264.1
".....	C	3	35,105	1,121.4	11,701	3.1	373.8
Keene.....	A	2	15,373	530.6	7,686	3.4	265.3
".....	B	3	24,415	849.7	8,138	3.4	283.2
Kerwood.....	A	6	41,920	1,595.4	6,986	3.8	265.9
Kintore.....	A	4	34,386	1,034.9	8,746	2.9	258.7
Lorneville.....	A	4	19,590	680.1	4,896	3.4	170.0
".....	B	4	18,940	660.5	4,735	3.5	165.1

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TABLE IV.—Comparisons between Herds in the Province of Ontario for Twelve Months' Production, 1910—*Continued.*

Name of Association.	Herd.	No. of Cows.	TOTAL YIELD OF HERD.		AVERAGE YIELD PER COW.		
			Milk.	Fat.	Milk.	Test.	Fat.
			Lbs.	Lbs.	Lbs.		Lbs.
Maple Grove.....	A	2	9,790	374.6	4,895	3.8	187.3
Milton.....	A	5	52,141	1,725.7	10,428	3.3	345.1
".....	B	6	35,295	1,313.5	5,882	3.7	218.9
".....	C	9	80,660	2,833.7	8,062	3.5	314.8
Morewood.....	A	11	82,593	3,092.9	7,508	3.7	281.1
Peterboro.....	A	1	7,970	234.1	7,910	3.0	234.1
Rockford.....	A	3	25,820	784.0	8,606	3.0	261.3
Shearer.....	A	2	11,996	395.6	5,998	3.3	197.8
".....	B	1	9,935	297.5	9,935	3.0	297.5
Spring Creek.....	A	2	19,530	719.9	9,765	3.7	339.9
".....	B	8	63,902	2,132.1	7,987	3.3	266.5
".....	C	1	9,010	338.0	9,010	3.7	338.0
".....	D	11	112,296	3,431.5	10,209	3.0	311.9
".....	E	9	87,581	2,878.2	9,731	3.2	319.8
".....	F	9	74,180	2,395.1	8,282	3.2	263.1
".....	G	5	39,232	1,252.5	7,646	3.2	250.5
".....	H	1	11,840	419.8	11,840	3.5	419.8
".....	I	1	8,750	296.5	8,750	3.3	296.5
Star.....	A	2	15,701	474.0	7,852	3.0	237.0
St. George.....	A	5	42,830	1,667.3	8,566	3.8	333.4
".....	B	16	106,950	3,293.9	6,309	3.2	205.8
".....	C	3	21,464	787.7	7,154	3.6	262.5
".....	D	9	80,943	2,532.7	8,993	3.1	286.9
".....	E	10	42,935	1,554.9	4,293	3.6	155.4
".....	F	6	38,665	1,300.1	6,442	3.4	218.2
".....	G	4	23,580	850.2	5,895	3.6	212.5
".....	H	4	21,400	822.1	5,350	3.8	205.5
St. Mary's.....	A	6	38,232	1,264.6	6,372	3.3	210.7
".....	B	2	11,995	502.3	5,997	4.2	251.1
Thedford.....	A	2	12,666	425.4	6,333	3.4	217.7
".....	B	4	33,945	980.2	8,486	2.9	245.0
Trewern.....	A	1	10,260	305.8	10,260	2.9	305.8
Wallace.....	A	4	31,272	1,010.6	7,818	3.2	252.6
".....	B	1	5,799	201.2	5,799	3.4	201.2

The average yield of the 403 cows in this table is 7,417 pounds of milk, 3.4 test and 256 pounds of fat.

In herd B, Bertie, the average of four cows works out at 7,773 pounds of milk and 287 pounds of fat; but the yield of one cow is as high as 10,263 pounds of milk and 383 pounds of fat, while another of the four gives only 5,910 pounds of milk and 195 pounds of fat. This is a telling example of what 'averages' generally do, they reduce high and low yields to one dead level. Cow testing aims at and accomplishes giving full credit where credit is due; it makes each cow responsible for an adequate return, and detects those that refuse to do an honest season's work.

The individual yields in this table vary between 4,435 pounds of milk and 160 pounds of fat from cows 5, 8 and 11 years old, up to a total production of 14,430 pounds of milk and 439 pounds of fat.

One most encouraging feature of this table is the fact that in 16 different herds are found cows giving over 360 pounds of butter fat.

A good record is found in herd B, East and West Oxford. Cows with an average of 9,779 pounds of milk and 331 pounds of fat.

Herd D, Spring Creek, has topped the ten thousand pound milk with 11 cows.



FIG. 1.

Two Grade Ayrshires, St. Prosper, Que. Cow Testing Association, 1910.  
Right: age 7, yield 7,697 lb. milk, 4.0 test, 314 lb. fat. Left: age 5, yield 6,718 lb. milk, 3.9 test, 267 lb. fat.



FIG. 2.

Two Grade Shorthorns, St. Edwidge, Que. Cow Testing Association, 1910.  
Right: age 13, yield 7,000 lb. milk, 3.7 test, 276 lb. fat. Left: age 8, yield 6,835 lb. milk, 3.8 test, 260 lb. fat





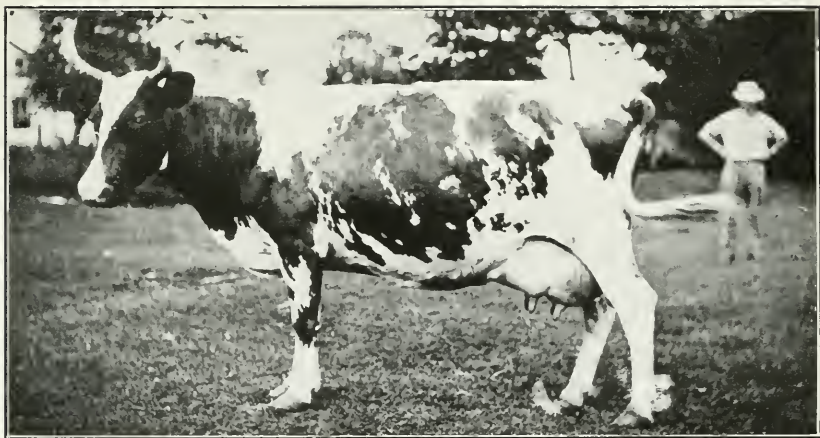


FIG. 1.—Ayrshire, St. Armand, Que. Cow Testing Association, 1910.  
Age 12, yield 7,707 lb. milk, 3·8 test 293 lb. fat.

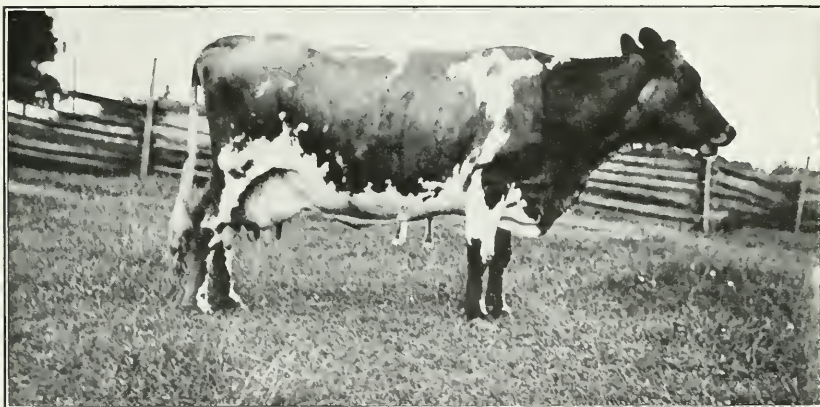


FIG. 2.—Grade Jersey, Cowansville, Que. Cow Testing Association, 1910.  
Age 12, yield 9,690 lb. milk, 4·8 test, 472 lb. fat.



FIG. 3.—French Canadian, St. Prosper, Que. Cow Testing Association, 1910.  
Age 8, yield 7,797 lb. milk, 3·9 test, 302 lb. fat.





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TABLE V.—Comparisons between Herds in the Province of Ontario, for Twelve Months' Production, 1910, Weights Only.

Name of Association.	Herd.	No. of Cows.	TOTAL YIELD OF HERD.	AVERAGE YIELD PER COW.
			Milk.	Milk.
			Lbs.	Lbs.
Avoobank.....	A	1	7,036	7,036
Belmont.....	A	7	70,536	10,077
Black Creek.....	A	9	60,103	6,677
Corinth.....	A	1	10,570	10,570
Culoden.....	A	25	232,045	9,280
Mapleton.....	A	1	9,020	9,020
".....	B	1	7,520	7,520
".....	C	11	97,222	8,838
North Oxford.....	A	7	42,690	6,099
".....	B	2	14,181	7,090
".....	C	1	8,670	8,670
".....	D	8	78,451	9,806
".....	E	6	44,740	7,456
".....	F	5	47,886	9,577
".....	G	7	42,690	6,099
".....	H	1	8,690	8,690
".....	I	8	78,451	9,806
".....	J	6	44,740	7,456
".....	K	5	47,886	9,577
South Lanark.....	A	7	50,149	7,164

The average yield of the 119 cows in this table is 8,430 pounds of milk.

Several individual yields of 10,000, 11,000 and over 12,000 pounds of milk are included, as well as some yields of under 5,000 pounds.

TABLE VI.—Comparisons between Individual Herds in the Province of Ontario for Twelve Months' Production, 1910. Weights Only.

	Herd No.	No. of Cows.	TOTAL YIELD OF HERD.	AVERAGE YIELD PER COW.
			Milk.	Milk.
			Lbs.	Lbs.
Individual.....	20	8	38,410	4,801
".....	21	4	18,401	4,600
".....	22	8	65,736	8,217
".....	23	10	84,358	8,435
".....	24	9	51,916	5,747
".....	25	7	62,816	8,973
".....	26	2	11,033	5,516
".....	27	3	19,105	6,368
".....	28	3	31,950	10,650
".....	29	2	15,565	7,782
".....	30	10	73,187	7,318
".....	31	14	109,815	7,843
".....	32	10	55,769	5,576
".....	33	13	72,709	5,593

The average yield of the 103 cows in this table is 6,900 pounds of milk.

Six individual yields of over 10,000 pounds are included.

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The lowest yield is in herd No. 20, a cow with 3,774 pounds of milk.

The next lowest yield is in herd No. 30 where one cow, seven years old, gives only 3,868 pounds of milk; the highest individual yield of all the 103 cows is also in this herd, 11,869 pounds. *A difference of 8,000 pounds of milk between the yield of two cows in the same herd is startling.*

In herd No. 23 each cow gives over 6,300 pounds of milk.

Supposing the owner of the herd No. 23 kept 100 cows, the owner of herd No. 20, if he wished to obtain as much milk, *would have to keep 175 cows.*

Herd No. 30 includes one cow giving 12,860 pounds of milk.

The variation in herd No. 31 is from 2,334 pounds of milk up to 8,412 pounds.

TABLE VII.—Comparisons between Herds in the Province of Quebec for the Full Period of Lactation, 1910.

Name of Association.	Herd.	No. of Cows.	TOTAL YIELD OF HERD.		AVERAGE YIELD PER COW.		
			Milk.	Fat.	Milk.	Test.	Fat.
			Lbs.	Lbs.	Lbs.		Lbs.
Adamsville..	A	4	17,533	693.3	4,482	3.8	174.5
"	B	2	7,228	292.5	3,614	4.0	146.2
"	C	14	64,588	2,380.1	4,611	3.7	170.0
"	D	1	3,520	138.6	3,520	3.9	138.6
Bedford.....	A	3	9,909	387.9	3,303	3.9	129.9
"	B	12	69,105	2,146.8	5,008	3.5	178.9
Belœil .....	A	9	48,874	1,853.7	5,430	3.8	205.9
"	B	5	28,409	1,086.1	5,681	3.8	217.2
"	C	10	45,970	1,823.7	4,597	3.9	182.3
"	D	6	37,230	1,434.9	6,205	3.8	239.1
"	E	5	18,880	704.2	3,776	3.7	140.8
"	F	5	23,523	913.6	4,704	3.8	182.7
"	G	5	18,136	753.0	3,627	4.1	150.6
"	H	1	6,065	228.5	6,065	3.7	228.5
Cap St. Gabriel	A	11	53,442	2,239.5	4,858	4.2	203.5
"	B	6	36,183	1,434.8	6,030	3.9	239.1
"	C	9	37,703	1,548.3	4,189	4.1	172.0
"	D	9	37,900	1,543.1	4,211	4.0	171.4
"	E	6	30,670	1,306.2	5,111	4.0	217.7
"	F	6	17,061	738.0	2,843	4.3	123.0
"	G	4	15,956	646.1	3,989	4.0	161.5
"	H	5	26,130	1,028.2	5,226	3.9	205.6
"	I	10	45,424	1,877.9	4,542	4.1	187.7
"	J	4	16,682	725.5	4,170	4.3	181.4
"	K	5	22,940	998.5	4,588	3.9	181.7
Coaticook.....	A	3	18,423	663.8	6,141	3.6	221.2
"	B	2	7,304	280.2	3,652	3.9	140.1
Compton.....	A	10	34,825	1,236.7	3,482	3.5	123.6
"	B	20	77,324	2,606.7	3,866	3.3	130.3
"	C	6	30,671	1,120.4	5,111	3.6	186.7
"	D	7	36,674	1,368.4	5,231	3.7	195.4
Clarenceville.....	A	4	19,752	668.7	4,938	3.3	164.1
Cowansville.....	A	3	20,790	1,005.6	6,930	4.8	335.2
"	B	12	72,150	2,747.8	6,012	3.8	229.1
"	C	1	5,110	215.6	5,110	4.2	215.6
"	D	16	64,620	2,703.3	4,038	4.1	168.9
"	E	12	60,480	2,329.9	5,040	3.8	194.1
"	F	5	22,194	965.2	4,438	4.3	193.0
"	G	12	61,140	2,406.7	5,094	3.9	200.5
Dairy Valley.....	A	5	33,038	1,013.4	6,607	3.0	202.6
"	B	18	74,059	2,529.1	4,114	3.5	146.0
"	C	2	6,675	291.7	3,337	4.0	145.8
"	D	9	29,820	1,140.2	3,303	3.8	126.6
"	E	4	17,109	643.8	4,277	3.7	160.9

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TABLE VII.—Comparisons between Herds in the Province of Quebec for the Full Period of Lactation, 1910—*Continued.*

Name of Association.	Herd.	No. of Cows.	TOTAL YIELD OF HERD.		AVERAGE YIELD PER COW.		
			Milk.	Fat.	Milk.	Test.	Fat.
			Lbs.	Lbs.	Lbs.		Lb.
Dixville.....	A	11	41,571	1,569.1	3,779	3.7	142.6
".....	B	8	33,247	1,429.0	4,162	4.2	178.6
".....	C	12	40,240	1,702.8	3,354	4.2	141.9
".....	D	5	23,013	1,026.0	4,602	4.4	205.2
".....	E	4	14,153	549.0	3,537	3.8	137.2
Dunham.....	A	6	24,497	1,026.9	4,082	4.1	171.1
Fitch Bay.....	A	8	36,079	1,300.8	4,509	3.6	162.6
".....	B	8	36,674	1,304.9	4,584	3.5	163.1
Foster.....	A	12	51,347	2,254.1	4,528	4.1	188.6
".....	B	7	32,595	1,489.5	4,656	4.5	212.7
".....	C	7	31,261	1,221.4	4,465	3.9	174.4
".....	D	10	37,675	1,504.4	3,767	4.0	159.4
Frelighsburg.....	A	12	55,295	2,325.1	4,697	4.2	193.9
".....	B	4	12,920	521.8	3,230	4.0	130.4
Griffin.....	A	9	39,796	1,531.3	4,421	3.8	170.1
".....	B	6	27,935	1,095.1	4,655	3.9	182.5
".....	C	6	21,465	875.8	3,577	4.0	145.9
".....	D	8	38,730	1,495.7	4,811	3.8	186.9
".....	E	9	33,970	1,315.0	3,774	3.8	146.1
Hatley Centre.....	A	9	37,025	1,357.6	4,113	3.4	150.8
Henryville.....	A	2	8,290	297.0	4,145	3.5	148.5
L'Assomption.....	A	3	15,117	591.1	5,039	3.9	197.0
".....	B	8	50,518	2,275.5	6,314	4.5	244.4
Marbleton.....	A	3	19,574	717.1	6,524	3.6	239.0
".....	B	4	19,890	678.2	4,972	3.4	169.5
Melboro.....	A	16	56,862	2,141.0	3,553	3.7	133.8
".....	B	5	19,456	722.5	3,891	3.7	144.5
".....	C	10	57,166	1,977.2	5,716	3.4	197.7
Martinvillle.....	A	2	8,038	278.7	4,019	3.4	139.3
".....	B	9	33,377	1,321.1	3,708	3.9	146.7
".....	C	6	27,648	965.5	4,608	3.4	160.9
".....	D	7	27,080	1,036.3	3,868	3.8	148.0
".....	E	6	21,444	782.6	3,574	3.6	130.4
North Hatley.....	A	10	45,119	1,682.2	4,711	3.7	168.2
".....	B	4	23,180	954.8	5,792	4.1	238.7
".....	C	3	15,592	617.0	5,500	3.7	205.6
Notre Dame de Stanbr.....	A	9	47,433	1,686.9	5,270	3.5	187.4
".....	B	11	58,351	2,329.2	5,394	3.9	211.7
".....	C	5	21,203	780.2	4,240	3.6	156.0
Ormstown.....	A	6	30,180	1,315.1	5,030	4.3	219.1
Point du Jour.....	A	7	34,244	1,369.1	4,892	3.9	195.5
".....	B	3	12,540	452.7	4,180	3.6	150.9
".....	C	4	20,276	802.2	5,069	3.9	200.5
".....	D	3	14,978	635.8	4,992	4.4	211.9
".....	E	3	14,618	577.9	4,872	3.9	192.6
Richmond and Melbourne.....	A	2	10,145	378.6	5,072	3.7	189.3
".....	B	6	28,708	1,033.3	4,784	3.6	172.2
".....	C	6	35,468	1,385.8	5,911	3.9	230.9
St. André Avellin.....	A	4	18,174	869.6	4,543	4.8	217.4
".....	B	4	17,832	717.7	4,457	4.0	179.4
St. Armand.....	A	12	51,157	2,438.2	4,263	5.0	203.1
".....	B	11	62,848	2,187.5	5,713	3.4	198.8
".....	C	23	113,914	4,527.8	4,952	3.9	196.8
".....	D	5	28,293	1,083.5	5,676	3.8	216.7
St. Clet.....	A	8	39,910	1,531.2	4,988	3.9	197.6
".....	B	4	24,270	946.4	6,067	3.9	236.6
St. Camille.....	A	3	17,375	735.2	5,791	4.3	245.0
".....	B	10	41,955	1,762.1	4,195	4.3	176.2
".....	C	4	17,340	766.6	4,335	4.4	191.6
".....	D	2	34,235	1,418.2	5,705	4.2	241.3
".....	E	7	29,649	1,170.7	4,235	3.9	167.2
".....	F	3	20,059	849.3	6,696	4.2	233.1

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TABLE VII.—Comparisons between Herds in the Province of Quebec for the Full Period of Lactation, 1910—*Concluded*.

Name of Association.	Herd.	No. of Cows.	TOTAL YIELD OF HERD.		AVERAGE YIELD PER COW.		
			Milk.	Fat.	Milk.		Milk.
			Lbs.	Lbs.	Lbs.	Test.	Lbs.
Ste. Emilie de Lotbiniere.....	A	6	26,484	1,038.5	4,414	3.9	173.0
"	B	5	19,190	825.6	3,838	4.3	165.1
"	C	6	24,038	975.5	4,006	4.0	162.5
"	D	6	21,728	902.6	3,621	4.1	150.4
"	E	1	6,828	286.1	6,828	4.1	286.1
"	F	8	37,766	1,426.3	4,720	3.7	178.2
"	G	4	19,510	759.0	4,877	3.8	189.5
"	H	9	37,040	1,494.9	4,115	4.0	166.1
"	I	2	11,440	523.1	5,745	4.5	261.5
"	J	8	35,534	1,509.6	4,441	4.2	184.7
"	K	2	8,970	378.8	4,185	4.5	199.4
"	L	4	17,644	752.8	4,411	4.2	184.2
"	M	6	23,340	1,001.2	3,890	3.5	164.8
"	N	6	27,476	1,173.2	4,579	4.2	195.5
"	O	9	41,560	1,683.9	4,617	4.0	187.1
"	P	1	4,472	189.6	4,472	4.2	189.6
Ste. Edwidge.....	A	13	81,573	3,010.3	6,274	3.6	231.5
Ste. Genevieve de Batiscan.....	A	10	40,850	1,825.8	4,085	4.4	182.5
"	B	14	69,889	2,445.5	4,992	3.4	174.6
"	C	10	53,385	2,022.4	5,338	3.8	202.2
"	D	5	19,334	815.5	3,866	4.2	163.1
St. Herménégilde.....	A	14	51,650	2,046.2	3,689	3.9	146.1
"	B	8	36,210	1,335.7	4,526	3.6	166.9
"	C	4	15,526	620.6	3,881	3.9	151.1
"	D	6	25,580	1,036.4	4,263	4.0	172.7
"	E	8	27,290	1,059.4	3,411	3.8	132.4
"	F	2	11,729	508.0	5,864	4.3	254.0
"	G	6	29,290	1,079.1	4,881	3.6	179.8
"	H	10	40,355	1,646.9	4,035	4.0	161.6
"	I	5	19,527	749.9	3,905	3.8	149.9
St. Hyacinthe.....	A	18	94,838	3,607.1	5,268	3.8	200.3
"	B	8	46,415	1,775.9	5,801	3.8	221.9
"	C	13	65,295	2,822.2	5,022	4.3	217.0
"	D	8	45,907	1,916.7	5,738	4.1	239.5
St. Prosper.....	A	7	46,920	1,950.9	6,702	4.1	278.7
"	B	4	21,866	918.6	5,466	4.2	229.6
St. Thomas d'Arcy.....	A	18	82,291	3,312.8	4,571	4.0	184.0
"	B	5	25,436	1,064.0	5,087	4.1	212.8
"	C	8	37,221	1,451.2	4,652	3.9	181.4
"	D	3	13,604	543.6	4,534	4.0	181.2
West Shefford.....	A	24	89,974	3,418.7	3,748	4.6	172.4
"	B	9	30,139	1,108.6	3,349	3.6	123.1
"	C	11	45,841	1,724.1	4,167	3.7	156.7
"	D	26	104,190	3,829.5	4,907	4.2	170.3
"	E	13	51,849	1,944.5	3,988	3.7	149.5
"	F	11	33,570	1,303.2	3,051	3.8	118.4
"	G	1	4,152	190.3	4,152	4.6	190.3
"	H	22	80,271	2,959.7	3,648	3.6	134.5

The average yield of the 1,139 cows in this table is 4,560 pounds of milk, 3.9 test, 179.2 pounds of fat.

Between an average yield of 118.4 pounds of fat per cow in herd F, West Shefford, and 284 pounds of fat in herd C, Henryville, there is a great gulf.

One of the best individual records is that of a cow in herd A, St. Prosper, giving 8,769 pounds of milk, 350.3 pounds of fat. Four out of the seven cows in this herd give over 300 pounds of fat.



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In herd B, L'Assomption, 2 cows are credited with 375 pounds of fat each: the herd average is seriously affected by the yield of one cow being only 181 pounds of fat, *less than half*.

A herd in which there is but a slight difference in the yields between the best and the poorest cow is herd A, Ste. Emilie. The lowest yield is 152 pounds of fat and the highest is 186 pounds. In a large number of herds this difference is 90 pounds of fat, or about \$20 difference in the cash receipts.

In the herd of St. Edwidge, 11 out of the 13 cows give over 200 pounds of fat. In other herds not one out of the whole number of cows gives as much as 182 pounds of fat.

TABLE VIII.—Comparisons between Herds in the Province of Quebec for the Full Period of Lactation, 1910.

Name of Association.	Herd.	No. of Cows.	AVERAGE YIELD OF HERD.	BEST COW.	POOREST COW.
			Milk.	Milk.	Milk.
			Lbs.	Lbs.	Lbs.
Cap Santé.....	A	11	4,457	5,430	2,149
Foster.....	A	7	4,088	5,156	3,523
Ormstown.....	A	3	6,514	8,691	5,043
".....	B	3	5,226	5,843	4,641
Pointe du Lac.....	A	9	5,587	6,775	4,375
".....	B	6	4,733	6,551	3,990
Rigaud.....	A	8	5,651	8,301	3,622
Ruisseau St. George.....	A	9	7,461	9,375	5,978
Ste. Anne de la Perade.....	A	6	4,624	5,894	3,105
".....	B	9	4,091	4,782	3,232
".....	C	10	4,048	4,645	3,526
St. André Avellin.....	A	4	4,513	5,612	2,916
St. Hyacinthe.....	A	8	4,644	5,048	3,956
St. Liboire.....	A	7	5,288	6,509	3,735
".....	B	8	4,863	6,328	2,908
St. Louis de Gonzague.....	A	5	8,638	9,989	5,700
".....	B	5	4,439	6,262	3,386
".....	C	11	6,135	7,545	4,485
St. Rémi de Tingwick.....	A	6	4,080	4,358	3,840
".....	B	7	3,526	4,280	2,320
".....	C	11	3,688	4,438	3,116
".....	D	12	4,043	4,990	2,760
".....	E	10	3,293	3,840	2,620
St. Charles, River Richelieu.....	A	8	5,563	8,160	3,355
Upton.....	A	11	4,836	6,090	3,868
Warwick.....	A	10	3,245	4,800	2,510
".....	B	12	3,696	4,307	2,578
".....	C	9	4,592	5,230	3,245
".....	D	6	4,059	4,782	3,664
".....	E	9	4,065	4,710	3,353
Total number of cows and average yield.....		240	4,667	5,951	3,584

In this table the average yield of the 240 cows is 4,667 pounds of milk.

Had the 10 cows in herd A, Warwick, produced only just as much as the average of all the 240 cows, with milk at \$1 per hundred, they would have brought in more cash for their owner to the extent of \$142.20; if as good as the average of the best cows, they would have earned \$270.90 more than they did; if as good as the average of herd A, St. Louis, they would have brought in an extra \$539.30.

An excellent opportunity is here afforded by the 30 herds in the table of studying at close range what an ordinary 'average' of yields may include.

It is desired to point out how manifestly unfair to both good and poor cows a cold arithmetical herd average may be; for a good cow's record is lowered out of all proportion to her real earning capacity, while a poor cow's record is brought right up far above her actual value as a milker.

Three herds may serve as examples. In herd A, St. Louis de Gonzague, the best cow gives 9,989 pounds of milk, and the poorest, a grade cow 10 years old, gives only 5,700 pounds, a *difference* of 4,289 pounds of milk; in herd A, Rigaud, the *difference* is 4,679 pounds; in herd A, St. Charles, the *difference* is 4,805 pounds of milk. Thus at Rigaud, if the average yield of the herd, alone, is considered, the best cow suffers to the extent of 2,650 pounds of milk; and, on the contrary, the poorest cow at St. Louis de Gonzague gets an extra weight of 2,938 pounds of milk placed to her credit.

The palpable and most reasonable deduction is that *each separate cow must be rated according to her particular individual ability* as a producer. This is one prime object of cow testing.

The average of the best cows is seriously reduced by five low yields of from 3,840 to 4,358 pounds of milk. The poorest cow in herd C, St. Louis de Gonzague, is better than these five 'best' cows.

The very fact that one or two of the lowest yields are from two and three-year-olds, dry in eight months, emphasizes the need of good breeding, training to a longer first milking period, and better conditions generally, so as to give the young stock a first-class start off in their life work of milk production.

While the average yield of the 30 herds is 4,667 pounds of milk per cow, the average of the best cow in each herd mounts up to 5,954 pounds; and the average of the poorest cow in each herd drops to 3,584 pounds; thus, even considering all the herds totalled together, *there is an average difference of 2,370 pounds of milk between the best and the poorest cow in each herd*; while as pointed out above, this difference actually runs as high as 4,805 pounds of milk.

It is surely apparent, right on the surface of things, what an enormous field of action this opens, for unless the individual yields are noted carefully, the owner of any other herd of eight cows might say: 'My cows average \$55.63 each in the value of milk produced,' and he would remain content with the knowledge of the total or average cash receipts. But the dairyman who takes up cow testing detects immediately that while the average income per cow is \$55.63, one cow brings in actually \$48.05 more than another right alongside her in the stable. Then, and then only, can follow intelligent selection of the profitable cows.

TABLE IX.—Contrasts between Average Yields of Herds in the Province of Quebec.

SOME POOR AVERAGES.					SOME GOOD AVERAGES.				
Association.	No. of Cows.	Average Yield per Cow.			Association.	No. of Cows.	Average Yield per Cow.		
		Milk.	Test.	Fat.			Milk.	Test.	Fat.
		Lbs.		Lbs.			Lbs.		Lbs.
Cap St. Gabriel.....	6	2,843	4.3	123.0	Beloeil.....	6	6,265	3.8	239.1
Compton.....	10	3,482	3.5	123.6	Cowansville.....	12	6,012	3.8	229.1
Frelighsburg.....	4	3,230	4.0	130.4	Henryville.....	8	6,314	4.5	284.4
Ste. Emelie.....	6	4,006	4.0	162.5	Richmond.....	6	5,911	3.9	230.9
St. Hermenegilde...	8	3,411	3.8	132.4	Ste. Edwidge....	13	6,274	3.6	231.5
West Shefford.....	11	3,051	3.8	118.4	St. Prosper.....	7	6,702	4.1	278.7

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From Table VII, on the preceding pages, the above herds have been picked out and rearranged as affording striking examples of the variations in yields obtained in different herds.

The average difference in yield between these contrasted herds is 2,900 pounds of milk per cow.

Some of the individual cows comprised in the above poor averages gave a bare 110 pounds of butter fat during the full period of lactation. Can such cows possibly be worth keeping?

On the other hand, hundreds of cows have over 250 pounds of butter fat to their credit. Cow testing is an immediate indication of which to use as foundation stock for building up a profitable herd.

The herd of six cows at Belœil gave a total yield of 20,169 pounds of milk more than the herd of six cows at Cap St. Gabriel. If milk is valued at \$1 per 100 pounds, the Belœil cows each earned \$33.60 more per year for their fortunate owner.

TABLE X.—Comparisons between Individual Herds in the Province of Quebec for the Full Period of Lactation, 1910. Weights Only.

	Herd No.	No. of Cows.	TOTAL YIELD OF HERD.	AVERAGE YIELD PER COW.
			Milk.	Milk.
			Lbs.	Lbs.
Individual .....	34	2	15,185	7,592
" .....	35	8	38,592	4,824
" .....	36	10	56,138	5,613
" .....	37	6	23,695	3,949

The average yield of the 26 cows in this table is 5,138 pounds of milk.

The individual yields vary from 2,770 pounds up to 7,894 pounds.

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TABLE XI.—Comparisons between Herds in the Province of Quebec for Twelve Months' Production, 1910.

Name of Association.	Herd.	No. of Cows	TOTAL YIELD OF HERD.		AVERAGE YIELD PER COW.		
			Milk.	Fat.	Milk.	Test.	Fat.
			Lbs.	Lbs.	Lbs.		Lbs.
Adamsville.....	A	1	3,100	160.2	3,100	5.0	160.2
".....	B	2	11,377	438.2	5,688	3.3	219.1
Clarenceville.....	A	3	20,692	736.6	6,897	3.5	245.5
Cowansville.....	A	12	78,364	2,865.5	6,208	3.6	220.4
".....	B	15	100,461	5,005.0	6,697	4.9	333.6
".....	C	13	73,960	2,986.0	5,689	4.0	221.6
".....	D	14	94,948	3,839.4	6,782	4.0	273.5
".....	E	11	49,010	2,212.8	4,455	4.0	201.1
Compton.....	A	9	49,418	2,039.4	5,490	4.1	226.6
".....	B	13	64,428	2,411.5	4,936	3.8	190.8
Dairy Valley.....	A	7	54,443	1,767.0	7,777	3.2	252.4
".....	B	4	16,000	644.9	4,000	4.0	161.2
Foster.....	A	6	31,221	1,415.5	5,263	4.5	235.9
Frelighsburg.....	A	8	41,683	1,741.9	5,210	4.1	217.7
North Hatley.....	A	3	19,349	777.2	6,447	4.0	259.0
Richmond and Melbourne.....	A	15	100,728	3,845.6	6,715	3.8	236.3
".....	B	5	31,322	1,224.6	6,260	3.9	244.9
".....	C	3	23,183	811.4	7,727	3.5	270.4
Ormstown.....	A	7	53,602	2,223.5	7,457	4.2	317.6
St. Armand.....	A	8	36,211	1,712.9	4,526	4.8	214.1
".....	B	3	18,532	715.8	6,177	3.8	233.6
".....	C	19	117,448	4,373.7	6,234	3.6	230.1
".....	D	4	25,755	961.5	6,438	3.7	240.3
".....	E	12	83,303	3,339.2	6,942	4.0	287.2
Ste. Emilie.....	A	2	7,712	331.6	3,856	4.3	165.8
St. Hyacinthe.....	A	7	50,689	1,922.4	7,241	3.7	274.6
".....	B	1	7,765	307.1	7,765	3.9	307.1
St. Prosper.....	A	15	101,889	4,113.6	6,759	4.0	274.2
".....	B	3	13,491	581.3	4,497	4.3	197.1
".....	C	3	21,735	892.0	7,245	4.1	297.3

The average yield of the 229 cows in this table is 6,119 pounds of milk, 3.8 test, 237.8 pounds of fat.

The average of the four cows in herd B, Dairy Valley is a *little less than half* the average of the 15 cows in herd B, Cowansville. In this latter herd the lowest yield is 4,768 pounds of milk and 258 pounds of fat, while the highest yield is 9,690 pounds of milk and 472 pounds of fat.

A herd with a very even run of production is herd A, Dairy Valley. Each of the seven cows gives over 200 pounds of fat. In herd A, Richmond, with an average of 256 pounds of fat, the variation in yield is from 194 to 322 pounds of fat, a *difference of 128 pounds* between the poorest and the best cows.

A good yield is found at Ormstown, an average of 317.6 pounds of fat, with one cow as high as 10,953 pounds of milk and 383.9 pounds of fat.

Herd A, St. Prosper, is also well worthy of notice, attaining an average yield for 15 cows of 6,759 pounds of milk and 274.2 pounds of fat. The lowest yield in this herd is 5,915 pounds of milk and 241 pounds of fat and the highest is 8,325 pounds of milk and 342.2 pounds of fat. Each cow in this herd thus is seen to give a higher yield of fat than the general average yield of all the 229 cows in the table.

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TABLE XII.—Comparisons between Herds in the Province of Quebec for Twelve Months' Production, 1910. Weights Only.

Name of Association.	Herd.	No. of Cows.	TOTAL YIELD OF HERD.	AVERAGE YIELD PER COW.
			Milk.	Milk.
			Lbs.	Lbs.
Foster.....	A	5	17,864	3,572
Ormstown .....	A	12	80,926	6,743
" .....	B	12	74,607	6,217
St. Edouard de Napierville .....	A	13	85,328	6,563
St. Louis de Gonzague.....	A	6	62,087	10,347
St. Hyacinthe.....	A	6	32,847	5,474

The average yield of these 54 cows is 6,547 pounds of milk.

In Tables VIII and XII the excellent standing of herd A, at St. Louis de Gonzague with an average of 8,638 pounds of milk from five cows, and 10,347 pounds from six cows should be an inspiration to every dairyman in Quebec.

TABLE XIII.—Comparisons between Herds in the Province of Nova Scotia for the Full Period of Lactation, 1910.

Name of Association.	Herd.	No. of Cows.	TOTAL YIELD OF HERD.		AVERAGE YIELD PER COW.		
			Milk.	Fat.	Milk.	Test.	Fat.
			Lbs.	Lbs.	Lbs.		Lbs.
Brookfield .....	A	4	22,165	886.8	5,541	4.0	221.7
" .....	B	3	11,310	477.1	3,770	4.0	159.0
Scotsburn .....	A	5	29,088	1,303.7	5,817	4.4	260.7
" .....	B	1	4,766	242.2	4,756	5.0	242.2
" .....	C	5	25,460	1,072.2	5,092	4.2	214.4
" .....	D	7	33,926	1,505.3	4,846	4.4	215.0
Tatamagouche.....	A	6	27,514	1,095.1	4,585	3.9	182.5
Wolfville.....	A	3	15,545	828.9	5,181	5.3	276.3
" .....	B	4	19,713	1,018.7	4,928	5.1	254.6

The average yield of these 38 cows is 4,986 pounds of milk, 4.4 test, 221.8 pounds of fat.

The best individual record in this group is 7,759 pounds of milk, 325.9 pounds of fat in herd A, Scotsburn.

Out of the 38 cows tabulated 23 give over 200 pounds of fat.



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TABLE XIV.—Comparisons between Herds in the Province of Nova Scotia for Twelve Months' Production, 1910.

Name of Association.	Herd.	No. of Cows.	TOTAL YIELD OF HERD.		AVERAGE YIELD PER COW.		
			Milk.	Fat.	Milk.	Test.	Fat.
			Lbs.	Lbs.	Lbs.		Lbs.
Brookfield .....	A	7	44,145	1,729.3	6,306	3.9	247.0
Scotsburn .....	A	6	36,250	1,821.9	6,041	5.0	303.6
Tatamagouche .....	A	6	36,187	1,791.4	6,031	4.9	298.5
" .....	B	7	33,645	1,591.8	4,896	4.7	227.4
Wolfville .....	A	5	25,352	1,150.4	5,070	4.5	230.0
Total number of cows and average yield .....		31	.....	.....	5,663	4.5	260.8

Out of these 31 cows, 10 have records of over 300 pounds of fat.

TABLE XV.—Comparisons between Herds in the Province of New Brunswick for the Full Period of Lactation, 1910.

Name of Association.	Herd.	No. of Cows.	TOTAL YIELD OF HERD.		AVERAGE YIELD PER COW.		
			Milk.	Fat.	Milk.	Test.	Fat.
			Lbs.	Lbs.	Lbs.		Lbs.
Berwick .....	A	4	19,500	655.0	4,875	3.3	163.7
Penobsquis .....	A	11	50,200	2,057.8	4,563	4.1	187.0
" .....	B	3	14,852	597.5	4,950	4.0	199.1
" .....	C	4	15,115	756.2	3,778	5.0	189.0
" .....	D	6	33,417	1,395.8	5,569	4.1	232.6
" .....	E	4	20,265	963.7	5,066	4.7	240.9
Petitcodiac .....	A	4	22,428	781.9	5,607	3.4	195.4
" .....	B	2	8,202	403.2	4,101	4.9	201.6
" .....	C	2	9,505	468.6	4,752	4.9	234.3
" .....	D	5	26,620	932.8	5,344	3.5	186.5
Sussex .....	A	6	30,350	1,290.6	5,059	4.5	215.1
Welsford .....	A	4	19,234	900.2	4,808	4.6	225.0
" .....	B	1	7,833	352.3	7,833	4.4	352.3

These 56 cows average 4,955 pounds of milk, 4.1 test, 206.3 pounds of fat.

Some low yields of under 170 pounds of fat pull the general average down considerably.

In herd D, Penobsquis, five of the six cows give over 230 pounds of fat.

In herd C, Petitcodiac, one cow gives 311 pounds of fat, the other only 157 pounds.

The cow in herd B, Welsford, is worth nothing.

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TABLE XVI.—Comparisons between Herds in the Province of New Brunswick for Twelve Months' Production, 1910.

Name of Association.	Herd.	No. of Cows.	TOTAL YIELD OF HERD.		AVERAGE YIELD PER COW.		
			Milk.	Fat.	Milk.	Test.	Fat.
			Lbs.	Lbs.	Lbs.		Lbs.
B rwick.....	A	1	6,320	245.0	6,320	3.8	245.0
Penobsquis.....	A	11	50,315	2,433.1	4,574	4.8	221.1
" .....	B	5	27,234	1,366.9	5,446	5.0	273.3
" .....	C	7	36,495	1,926.6	5,213	5.2	275.2
" .....	D	4	15,559	793.3	3,889	5.0	188.3
Petitcodiac.....	A	9	58,161	2,014.9	6,462	3.4	223.8
" .....	B	4	25,144	898.5	6,286	3.5	223.3
" .....	C	4	17,737	813.3	4,434	4.5	203.3
" .....	D	7	41,728	1,562.5	5,961	3.7	223.2
Sussex.....	A	9	56,631	2,263.7	6,292	3.9	251.5
Welsford.....	A	7	44,101	2,107.7	6,300	4.9	301.1
" .....	B	4	36,065	1,619.7	9,016	4.4	404.9
" .....	C	6	41,418	1,914.0	6,903	4.6	319.0
Total number of cows and average yield .....		78	.....	.....	5,857	4.3	255.8

In this table good herd averages of 275, 319 and 404 pounds of fat per cow are worthy of notice.

In the Welsford association these herds include such individual records as 10,310 pounds of milk, 478 pounds of fat, and 10,330 pounds of milk, 472 pounds of fat per cow.

The four cows in herd B, Welsford give *more than twice as much fat* as the four cows in herd D, Penobsquis.

The average test of the herds varies from 3.4 to 5.2 per cent of fat.

TABLE XVII.—Comparisons between Herds in the Province of New Brunswick for Twelve Months' Production, 1910. Weights Only.

Name of Association.	Herd.	No. of Cows.	TOTAL YIELD OF HERD.	AVERAGE YIELD PER COW.
			Milk.	Milk.
			Lbs.	Lbs.
Norton.....	A	8	40,702	5.087
Salisbury.....	A	5	31,078	6.217
Total number of cows and average yield. ....		13	.....	5.521

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TABLE XVIII.—Comparisons between Herds in the Province of Prince Edward Island for the Full Period of Lactation, 1910.

Name of Association.	Herd.	No. of Cows.	TOTAL YIELD OF HERD.		AVERAGE YIELD PER COW.		
			Milk.	Fat.	Milk.	Test.	Fat.
			Lbs.	Lbs.	Lbs.		Lbs.
Central Lot 13	A	7	33,327	1,178.8	4,761	3.5	168.4
"	B	9	37,768	1,322.0	4,196	3.4	146.8
Cornwall	A	6	31,523	1,123.2	5,253	3.5	187.2
Crapaud	A	6	29,828	1,203.4	4,971	4.0	200.5
"	B	1	7,145	231.3	7,145	3.2	231.3
"	C	4	24,750	860.7	6,187	3.4	215.1
"	D	3	19,999	708.9	6,666	3.5	235.3
"	E	7	31,320	1,114.2	4,474	3.5	159.1
"	F	4	18,235	731.5	4,558	4.0	185.3
"	G	4	27,245	997.0	6,811	3.6	249.2
"	H	8	32,750	1,264.7	4,093	3.8	158.0
"	I	7	41,396	1,644.3	5,913	3.9	231.9
"	J	7	47,554	1,706.9	6,793	3.6	243.8
Dunk River	A	3	10,595	430.4	3,531	4.0	143.4
"	B	6	24,704	1,008.1	4,117	4.1	168.0
"	C	12	62,191	2,303.2	5,199	3.6	191.9
Hillsboro	A	6	23,140	1,108.7	3,856	4.7	184.7
New Perth	A	2	8,057	281.9	4,028	3.4	140.9
North Tryon	A	4	23,360	864.0	5,840	3.6	216.0
"	B	4	17,687	658.1	4,421	3.7	161.5
North Wiltshire	A	5	20,143	1,055.5	4,028	3.2	211.1
Summerside	A	7	35,690	1,255.2	5,093	3.5	179.3
"	B	6	28,280	1,094.7	4,713	3.8	182.4

The average yield of the 128 cows in this table is 5,005 pounds of milk, 3.7 test, 188.6 pounds of fat.

In herd I, Crapaud, every cow, except one, gives over 219 pounds of fat. In other herds not one cow gives as much as that.

Partly concealed in the average of herd D, Crapaud, is a fine yield of 9.165 pounds of milk, and 330 pounds of fat. Several other cows give over 270 pounds of fat.

TABLE XIX.—Comparisons between Herds in the Province of Prince Edward Island for Twelve Months' Production, 1910.

Name of Association.	Herd.	No. of Cows.	TOTAL YIELD OF HERD.		AVERAGE YIELD PER COW.		
			Milk.	Fat.	Milk.	Test.	Fat.
			Lbs.	Lbs.	Lbs.		Lbs.
Cornwall	A	5	26,202	1,124.7	5,240	4.2	224.9
Crapaud	A	8	67,196	2,451.9	8,399	3.6	306.4
"	B	2	10,900	400.5	5,450	3.6	200.2
"	C	11	77,480	2,970.4	7,043	3.9	270.0
Emerald	A	10	53,630	2,110.9	5,363	3.9	211.0
New Perth	A	6	22,193	745.8	3,698	3.3	124.3
North Tryon	A	4	25,120	938.8	6,280	3.7	234.7

The average yield of the 46 cows in this table is 6,150 pounds of milk, 3.7 test and 233.5 pounds of fat.

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The six cows at New Perth are not heifers, but mature grades, 7, 8 and 10 years old.

One cow included in herd A, Crapaud, has a total yield of 10,660 pounds of milk and 456.4 pounds of fat.

Out of the 11 cows in herd C, Crapaud, seven have yields of over 260 pounds of fat. One cow is credited with the production of 8,785 pounds of milk and 376 pounds of fat. This is *more than four times as much* as one of the 10-year olds at New Perth.

TABLE XX.—Comparisons between Herds in the Province of British Columbia for the Full Period of Lactation, 1910.

Name of Association.	Herd.	No. of Cows.	TOTAL YIELD OF HERD.		AVERAGE YIELD PER COW.		
			Milk.	Fat.	Milk.	Test.	Fat.
			Lbs.	Lbs.	Lbs.		Lbs.
Comox.....	A	8	44,625	2,072.9	5,578	4.4	259.1
".....	B	6	29,632	1,152.0	4,938	3.8	192.0
".....	C	9	51,770	2,134.5	5,752	4.1	237.1
".....	D	6	21,853	926.6	3,442	4.2	154.4
".....	E	3	18,541	812.2	6,180	4.3	270.7
Cowichan.....	A	1	4,300	162.8	4,300	3.7	162.8
".....	B	5	26,858	1,024.5	5,371	3.8	204.9
".....	C	1	3,850	142.2	3,850	3.6	142.2
".....	D	1	8,500	366.5	8,500	4.3	366.5
".....	E	2	8,252	306.5	4,126	3.7	153.4
".....	F	1	6,605	254.1	6,605	3.9	254.1
".....	G	2	11,024	531.9	5,512	4.8	265.9
".....	H	3	17,355	683.7	5,785	3.9	227.9
".....	I	1	5,510	206.5	5,510	3.7	206.5
".....	J	2	14,850	689.4	7,245	4.6	344.7
".....	K	2	8,858	360.6	4,429	4.0	180.3
".....	L	1	4,574	238.2	4,574	5.1	238.2
".....	M	5	23,539	946.0	4,707	4.5	189.2
".....	N	3	15,158	667.8	5,052	4.0	222.6
".....	O	2	10,825	469.0	5,412	4.3	231.5
".....	P	7	27,340	1,263.1	3,995	4.6	180.4
Eden Bank.....	A	26	152,460	5,787.8	5,863	3.7	222.6
".....	B	6	43,000	1,553.4	7,166	3.4	258.9
".....	C	7	53,238	1,712.2	7,605	3.2	244.6
Islands.....	A	3	24,440	1,265.9	8,146	5.1	421.9
".....	B	3	24,935	1,146.1	8,311	4.5	382.0
Nanaimo.....	A	3	7,457	317.5	2,485	4.2	105.8
".....	B	2	9,353	456.7	4,676	4.8	228.3
".....	C	5	27,710	1,234.1	5,542	4.4	216.8
".....	D	3	10,095	422.1	3,365	4.1	147.7
".....	E	5	21,059	898.6	4,211	4.2	179.7
".....	F	6	29,200	1,462.0	4,866	5.0	243.6
".....	G	2	8,614	374.8	4,307	4.3	174.4

The average yield of the 142 cows in this table is 5,453 pounds of milk, 4.1 test, 225.6 pounds of fat.

Herd A, Islands, has an average of 421.9 pounds of fat for three cows. These *three cows* exceed the yield of the *6 cows* in herd B, Comox, by 113 pounds of fat.

Herd B, Islands, contains a seven-year-old Jersey giving 11,210 pounds of milk and 521 pounds of fat.

In this table 17 cows are included, giving over 300 pounds of fat.

The average of herd A, Eden Bank, stands at a very satisfactory figure for the number of cows concerned.

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TABLE XXI.—Comparisons between Herds in the Province of British Columbia for Twelve Months' Production, 1910.

Name of Association.	Herd.	No. of Cows.	TOTAL YIELD OF HERD.		AVERAGE YIELD PER COW.		
			Milk.	Fat.	Milk.	Test.	Fat.
			Lbs.	Lbs.	Lbs.		Lbs.
Comox.....	A	12	56,845	2,404.6	4,737	4.2	200.3
".....	B	10	65,845	2,935.4	6,548	4.4	293.5
".....	C	2	12,335	520.1	6,167	4.2	260.0
Cowichan.....	A	11	64,005	2,545.6	5,818	3.9	231.4
".....	B	3	20,815	941.6	6,938	4.5	313.8
".....	C	4	20,008	989.2	5,002	4.9	247.3
".....	D	6	39,264	1,499.6	6,544	3.8	249.9
".....	E	5	27,605	1,094.3	5,521	3.9	218.8
".....	F	11	49,955	2,373.1	4,541	4.7	215.7
".....	G	6	38,732	1,447.8	6,455	3.7	241.4
".....	H	6	36,975	1,651.6	6,162	4.4	275.2
".....	I	11	81,782	3,555.8	7,434	4.3	323.2
".....	J	9	58,702	2,662.5	6,522	4.5	295.7
".....	K	4	27,330	1,258.3	6,832	4.6	314.5
".....	L	8	60,466	2,611.2	7,558	4.3	326.4
".....	M	8	42,562	1,538.8	5,320	3.6	182.3
".....	N	4	25,925	1,115.7	6,481	4.3	278.9
".....	O	2	10,553	537.7	5,276	5.0	268.8
".....	P	7	31,712	1,478.6	4,530	4.6	211.2
".....	Q	5	29,498	1,271.9	5,899	4.3	254.3
".....	R	11	67,815	2,959.5	6,146	4.3	269.0
Eden Bank.....	A	21	125,871	5,093.3	5,993	4.0	242.7
".....	B	4	21,710	745.3	5,427	3.4	186.3
".....	C	3	24,150	905.7	8,050	3.7	391.9
Islands.....	A	4	26,445	1,323.9	6,611	5.0	331.7
".....	B	8	57,789	2,715.3	7,223	4.6	339.4
Nanaimo.....	A	5	20,120	870.5	4,024	4.2	174.1
".....	B	3	8,741	412.5	2,913	4.7	137.5
".....	C	4	19,812	859.5	4,953	4.3	214.8
".....	D	2	16,650	727.1	8,325	4.3	363.5
".....	E	4	25,645	995.2	6,411	3.8	248.8
".....	F	4	22,102	1,071.3	5,525	4.8	267.8
".....	G	3	17,610	820.7	5,870	4.6	273.5
".....	H	4	24,770	1,058.3	6,192	4.2	264.5

The 214 cows in this table have an average of 5,981 pounds of milk, 4.2 test, 257 pounds of fat.

In this table such good average herd yields are found as 10 cows giving 293 pounds of fat, 11 cows with 323 pounds, and 8 cows with 339 pounds of fat each.

Included in these herds are records of individual cows giving 9,465 pounds of milk and 415 pounds of fat, and even as high as 11,995 pounds of milk and 533 pounds of fat.



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TABLE XXII.—Comparisons between Herds in the Province of British Columbia for the Full Period of Lactation, 1910. Weights Only.

Name of Association.	Herd.	No. of Cows.	TOTAL YIELD OF HERD.	AVERAGE YIELD PER COW.
			Milk.	Milk.
			Lbs.	Lbs.
Chilliwack.....	A	6	46,592	7,765
".....	B	6	35,991	5,981
Islands.....	A	7	29,864	4,266

The 19 cows in this table average 5,918 pounds of milk.

One cow in herd A, Islands, gives only 2,718 pounds of milk, while her stable mate gives 6,309 pounds: *more than twice as much.*

TABLE XXIII.—Comparisons between Herds in the Province of British Columbia for Twelve Months Production, 1910. Weights Only.

Name of Association.	Herd.	No. of Cows.	TOTAL YIELD OF HERD.	AVERAGE YIELD PER COW.
			Milk.	Milk.
			Lbs.	Lbs.
Chilliwack.....	A	8	56,451	7,056
".....	B	17	141,595	8,329

TABLE XXIV.—Comparisons between Individual Herds for Twelve Months' Production, 1910. Weights Only.

Province.	Herd No.	No. of Cows.	TOTAL YIELD OF HERD.	AVERAGE YIELD PER COW.
			Milk.	Milk.
			Lbs.	Lbs.
Nova Scotia.....	38	8	56,654	7,081
New Brunswick.....	39	11	61,819	5,619
Manitoba.....	40	6	41,427	6,904

The 25 cows in this table average 6,396 pounds of milk.

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TABLE XXV.—Comparisons between Individual Herds, Full Period of Lactation, 1910.  
Weights Only.

Province.	Herd No.	No. of Cows.	TOTAL YIELD OF HERD.	AVERAGE YIELD PER COW.
			Milk.	Milk.
			Lbs.	Lbs.
Nova Scotia.....	41	5	28,762	5,752
New Brunswick.....	42	5	30,066	6,013
Manitoba.....	43	3	15,785	5,261
Saskatchewan.....	44	3	17,220	5,740

These 16 cows average 5,739 pounds of milk.

TABLE XXVI.—Comparative Yield, by Provinces, of Cows for the Full Period of Lactation, 1910.

Province.	Number of Cows.	Average Yield of Milk.	Average per cent of Fat.	Average Yield of Fat.
		Lbs.	Test.	Lbs.
Ontario.....	1,185	6,162	3.4	213.3
" weights only.....	495	6,169		
Quebec.....	1,139	4,560	3.9	179.2
" weights only.....	266	4,749		
Nova Scotia.....	38	4,986	4.4	221.8
New Brunswick.....	56	4,955	4.1	206.3
" weights only.....	2	6,107		
Prince Edward Island.....	128	5,005	3.7	188.6
" weights only.....	9	5,080		
British Columbia.....	142	5,453	4.1	225.6
" weights only.....	19	5,918		
Individual herds, weights only.....	16	5,739		
Total number of cows and average yield.....	2,688	5,349	3.7	199.0
Total number of cows and average yield, weights only.....	807	5,674		



A Dairy Farm in Oxford County.





FIG. 1.  
Herd of Ayrshires, St. Armand, Que. Cow Testing Association.



FIG. 2.—Two Ayrshires, St. Armand, Que. Cow Testing Association.  
Right : age 13, yield 8,170 lb. milk, 3·6 test, 309 lb. fat. Left : age 12, yield 7,707 lb. milk, 3·8 test, 293 lb. fat





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TABLE XXVII.—Comparative Yield, by Provinces, of Cows for Twelve Months' Production, 1910.

Province.	Number of Cows.	Average Yield of Milk.	Average per cent of Fat.	Average Yield of Fat.
		Lbs.	Test.	Lbs.
Ontario.....	403	7,417	3·4	256·0
" weights only.....	222	7,720		
Quebec.....	229	6,119	3·8	237·8
" weights only.....	54	6,547		
Nova Scotia.....	31	5,663	4·5	200·8
New Brunswick.....	78	5,857	4·3	235·8
" weights only.....	13	5,521		
Prince Edward Island.....	46	6,150	3·7	233·5
" " weights only.....	2	5,285		
British Columbia.....	214	5,981	4·2	257·0
" weights only.....	25	7,921		
Sundry individual herds.....	4	5,973	3·8	229·1
Sundry individual herds, weights only.....	25	6,396		
Total number of cows and average yield.....	1,005	6,577	3·8	251·3
Total number of cows and average yield, weights only.....	341	7,351		

In these two tables the records are tabulated of 4,841 cows; 1,970 more than last year.

For the encouragement of members of our associations who are aiming still higher it may be noted that the average yield of 639 cows in one testing association in Sweden last year was 10,064 pounds of milk, 3·12 test, and 345 pounds of butter. The increase per cow in this association in nine years is 3,174 pounds of milk, and 109 pounds of butter.

Sweden has 662 cow testing associations.

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TABLE XXVIII.—Summary of Average Monthly Yields, 1910.

Month and Province.	Total Number of Cows.	AVERAGE YIELD.		
		Milk.	Test.	Fat.
January—		Lbs.		Lbs.
Prince Edward Island.....	140	635	3·8	24·1
British Columbia.....	447	553	4·3	23·7
Quebec.....	283	515	4·2	21·7
Ontario.....	538	579	3·6	21·2
Nova Scotia.....	81	474	4·4	20·8
New Brunswick.....	162	475	4·3	20·8
General average yield.....	1,651	550	4·0	22·1
General average weights only.....	444	538		
February—				
Prince Edward Island.....	126	665	3·7	24·8
New Brunswick.....	139	573	4·3	24·5
British Columbia.....	473	561	4·2	23·5
Ontario.....	566	648	3·6	23·3
Nova Scotia.....	94	520	4·4	23·0
Quebec.....	265	574	4·0	22·9
General average yield.....	1,663	597	3·9	23·6
General average weights only.....	462	598		
March—				
Ontario.....	700	744	3·5	26·0
Prince Edward Island.....	135	678	3·7	25·6
Nova Scotia.....	99	560	4·4	24·9
British Columbia.....	481	573	4·2	24·0
New Brunswick.....	151	556	4·3	23·8
Quebec.....	346	608	3·8	22·8
General average yield.....	1,912	646	3·8	24·6
General average weights only.....	437	690		
April—				
Ontario.....	1,492	823	3·3	27·1
British Columbia.....	518	637	4·0	26·0
Nova Scotia.....	123	590	4·4	25·9
Prince Edward Island.....	157	664	3·7	24·9
New Brunswick.....	175	557	4·1	23·3
Quebec.....	1,077	590	3·6	21·4
General average yield.....	3,542	696	3·6	24·9
General average weights only.....	967	754		
May—				
Ontario.....	2,633	903	3·3	29·9
Nova Scotia.....	153	639	4·4	28·5
British Columbia.....	583	696	4·1	28·2
Prince Edward Island.....	235	706	3·8	26·4
Quebec.....	2,724	687	3·7	25·4
New Brunswick.....	269	623	4·0	25·0
General average yield.....	6,597	771	3·5	27·5
General average weights only.....	1,385	866		
June—				
Prince Edward Island.....	908	819	3·8	31·7
Ontario.....	3,065	946	3·3	30·9
Nova Scotia.....	208	689	4·3	30·0
Quebec.....	3,684	743	3·7	27·5
British Columbia.....	592	662	4·0	26·4
New Brunswick.....	347	666	3·9	26·0
General average yield.....	8,804	812	3·6	29·0
General average weights only.....	1,602	913		

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TABLE XXVIII.—Summary of Average Monthly Yields, 1910—*Continued.*

Month and Province.	Total Number of Cows.	AVERAGE YIELD.		
		Milk.	Test.	Fat.
July—		Lbs.		Lbs.
Prince Edward Island.....	1,046	776	3·7	29·0
Ontario.....	3,130	824	2·3	27·1
Nova Scotia.....	207	595	4·3	25·5
Quebec.....	3,524	656	3·8	24·9
New Brunswick.....	274	625	3·9	24·4
British Columbia.....	526	603	4·0	24·1
General average yield.....	8,707	725	3·6	26·1
General average weights only.....	1,479	788		
August—				
Ontario.....	3,020	776	3·4	26·3
Prince Edward Island.....	863	679	3·7	25·5
Quebec.....	3,335	570	3·9	22·6
British Columbia.....	500	544	4·1	22·3
Nova Scotia.....	151	528	4·1	21·9
New Brunswick.....	229	524	4·1	21·9
General average yield.....	8,098	671	3·7	24·9
General average weights only.....	1,249	761		
September—				
Ontario.....	2,889	720	3·5	25·3
Prince Edward Island.....	693	601	3·9	23·3
British Columbia.....	403	541	4·3	22·1
Quebec.....	2,850	520	4·1	21·4
New Brunswick.....	218	473	4·4	20·4
Nova Scotia.....	134	436	4·3	18·7
General average yield.....	7,187	606	3·8	23·2
General average weights only.....	1,477	716		
October—				
British Columbia.....	414	536	4·3	23·2
Ontario.....	2,619	607	3·6	21·9
Prince Edward Island.....	526	469	4·1	19·4
Nova Scotia.....	73	417	4·6	19·0
New Brunswick.....	161	402	4·6	18·5
Quebec.....	2,130	433	4·2	18·5
General average yield.....	5,923	519	4·0	20·4
General average weights only.....	1,223	576		
November—				
British Columbia.....	374	542	4·4	23·5
Nova Scotia.....	74	467	4·6	21·1
New Brunswick.....	113	420	4·7	19·5
Ontario.....	1,565	513	3·8	19·4
Prince Edward Island.....	265	468	4·2	19·1
Quebec.....	1,217	362	4·4	15·9
General average yield.....	3,608	458	4·0	18·7
General average weights only.....	1,054	483		
December—				
Nova Scotia.....	71	571	4·5	25·6
British Columbia.....	302	547	4·3	23·7
New Brunswick.....	72	447	4·9	22·0
Prince Edward Island.....	106	514	4·0	20·4
Ontario.....	927	529	3·6	19·3
Quebec.....	607	369	4·4	16·4
General average yield.....	2,085	484	4·0	19·5
General average weights only.....	789	440		

These average monthly yields are five per cent higher than those of 1909.

In this table the yields are arranged according to the weight of butter fat. It thus becomes of interest to notice the varying order of the several provinces month by month. Ontario heads the list five months, so does Prince Edward Island. In August, only Ontario and Prince Edward Island have an average that is above the general average in both milk and fat: all the other provinces (totalling 4,215 cows out of the 8,098 included in the 'general average yield') have yields of milk and fat below the general average.

The cows included in 'Weights only' are those owned by men who did not take samples for testing, but were only recording weights of milk. These were almost all in Ontario and Quebec.

The total number of cows recorded during the year was 59,855 for weights and tests, and 12,568 for weights only, thus giving a total of 72,423. This is an increase over 1909 of 18,540 records.

In connection with this table, one point worth notice, is the marked differences in both yields of milk per cow, and the average test. For instance, in October the test in New Brunswick runs one per cent higher than in Ontario; and in September the yield per cow is 200 pounds of milk higher in Ontario than Quebec, and 284 pounds higher than the average in Nova Scotia.

These monthly average yields offer a large scope for instituting comparisons thereby calling attention to the urgent need for improvement in several of our dairy districts.

In the month of June, for example, the average yield of the 3,684 cows recorded in Quebec is 27.5 pounds of fat. The lowest average yield in any association in that province is 20.9 pounds of fat at Ayers Cliff, and the highest is 42.0 pounds at Ruisseau St. George. Without taking these extreme cases, where one is double that of the other, but comparing two that might be termed medium high and medium low, it means that where a given weight of fat is produced by 100 cows in one association it takes 146 cows in others to produce as much fat. As this comparison holds good for several associations for several months in several provinces it emphasizes the enormous saving that can be effected when our dairy farmers take the trouble to weigh and test systematically so as to save themselves totally unnecessary trouble from dairying with inefficient cows.

#### PERCENTAGE OF FAT.

TABLE XXIX.—Average percentage of Fat during the Whole Year 1910, by Provinces.

Province.	Total Number of Tests.	Total Milk.	Total Fat.	Average Test.
		Lbs.	Lbs.	% Fat.
Ontario.....	23,144	17,590,166	600,412	3.41
Quebec.....	22,042	13,048,762	507,330	3.88
British Columbia.....	5,613	3,310,909	137,623	4.15
Prince Edward Island.....	5,200	3,509,165	134,576	3.83
New Brunswick.....	2,310	1,275,697	55,109	4.31
Nova Scotia.....	1,468	823,555	36,026	4.37

These average tests for percentage of fat correspond very closely with the average tests in 1909.

During 1910 the number of cows tested each month in the Dominion varied from 1651 in January to 8817 in June, with a total of 59,855 tests of fat made during the year. The totals of the monthly yields were 39,558,254 pounds of milk and 1,471,076 pounds of fat, thus showing an average of 3.72 per cent of fat.



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TABLE XXX.—AVERAGE PERCENTAGE OF FAT, 1910, BY MONTHS AND PROVINCES.

Month.	ONTARIO.		QUERBEC.		NEW BRUNSWICK.		NOVA SCOTIA.		PRINCE EDWARD ISLAND.		BRITISH COLUMBIA.		TOTAL.	
	Number of Cows.	Average of Test.	Number of Cows.	Average of Test.	Number of Cows.	Average of Test.	Number of Cows.	Average of Test.	Number of Cows.	Average of Test.	Number of Cows.	Average of Test.	Number of Cows.	Average of Test.
January.....	538	3.6	283	4.2	162	4.3	81	4.4	140	3.8	447	4.3	1,651	4.0
February.....	566	3.6	265	4.0	139	4.3	94	4.4	126	3.7	473	4.2	1,663	3.9
March.....	700	3.5	346	3.8	151	4.3	99	4.4	135	3.7	481	4.2	1,912	3.8
April.....	1,492	3.3	1,077	3.6	175	4.1	123	4.4	157	3.7	518	4.0	3,542	3.6
May.....	2,633	3.3	2,724	3.7	269	4.0	153	4.4	235	3.8	583	4.1	6,597	3.5
June.....	3,065	3.3	3,684	3.7	347	3.9	208	4.3	908	3.8	592	4.0	8,804	3.6
July.....	3,130	3.3	3,524	3.8	274	3.9	207	4.3	1,046	3.7	596	4.0	8,707	3.6
August.....	3,020	3.4	3,335	3.9	229	4.1	151	4.1	863	3.7	500	4.1	8,098	3.7
September.....	2,889	3.5	2,850	4.1	218	4.4	134	4.3	693	3.9	403	4.3	7,187	3.8
October.....	2,619	3.6	2,130	4.2	161	4.6	73	4.6	526	4.1	414	4.3	5,923	4.0
November.....	1,565	3.8	1,217	4.4	113	4.7	74	4.6	265	4.2	374	4.4	3,608	4.0
December.....	927	3.6	607	4.4	72	4.9	71	4.5	106	4.0	302	4.3	2,085	4.0

### GOOD REASONS FOR COW TESTING.

From the correspondence with members of cow testing associations the following good reasons why every dairy farmer should commence and continue the system have been classified.

#### A.—INDIVIDUAL COWS.

1. Cow testing enables one to find out the poorest cows, those not paying for their feed, so that they may be got rid of.

In many cases one-quarter of the cows in the herd have been discovered to be not worth keeping, in some cases half the herd and even as high as three-quarters have been turned out.

This means certainty in dairying, no more guess work as to individual performance.

2. Cow testing shows that many cows considered only average are really the best in the herd.
3. Cow testing points out definitely which cows are the best producers, both in milk and butter fat.
4. Cow testing proves that many cows considered the highest in test are really the lowest.
5. Cow testing saves good cows from being beefed, they are found to be profitable when actual yield and cost of feed are considered.
6. Cow testing shows that many fine looking cows do not bring in much cash from the factory.
7. Cow testing helps to discover the great difference in persistency of flow.
8. Cow testing brings to notice the slightest variation in flow and urges one to seek for the cause of shrinkage.

#### B.—HERDS AS A WHOLE.

9. Cow testing helps to increase the total yield of milk and fat from the same number of cows.
10. Cow testing brings in larger returns from fewer cows.
11. Cow testing helps to build up a profitable herd quickly because heifers can be selected from the best cows.

#### C.—FEED.

12. Cow testing allows more discrimination in feeding, apportioning the grain according to the yield of fat.
13. Cow testing emphasizes the benefit of liberality in feeding succulent, digestible food stuffs.
14. Cow testing abundantly proves that it pays handsomely to give dairy cows the best of care and kind treatment; this includes regularity as to milking, early stabling in the fall, protection from cold rains, spraying to protect from flies; and above all, particular attention to cleanliness, light and ventilation in the stable.
15. Cow testing demonstrates that many good cows can be kept at a smaller cost of feed. This is not stinginess, but economy.

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## D.—THE DAIRYMAN HIMSELF.

16. Keeping records makes one more observant of all those little details that go to make up success.
17. Because cow testing develops this faculty of observation and induces reading and study, members of associations are becoming far better dairymen.
18. There is a great stimulus received from comparing notes and results with other members.
19. The hired men take more interest in the cows, consequently they give them better attention and get more milk.
20. Neighbouring farmers who originally scoffed at the idea of cow testing have become impressed with the results obtained by members.
21. A great measure of personal satisfaction results from studying each cow as an individual performer, not as a mere machine.
22. Cow testing increases one's love for good cows, and creates infinitely more pleasure in the work of the farm.
23. The definite knowledge obtained from the regular monthly testing is much more satisfactory in every way than getting an occasional result only once or twice a year.
24. Financially, cow testing is of very great benefit; young bulls sell for higher prices. Cows sell for double the old prices when buyers see records.
25. Cow testing not only interests the boys and girls more and more in farm life, but materially assists in providing additional home comforts for the women and children.

## INCREASES IN YIELDS.

A few of the positive gains in milk yields and cash receipts are given below as samples of what is being accomplished by men who take up cow testing systematically.

## ONTARIO.

Dr. D. Robertson, Milton, writes, 'Our herd of cows averaging 4,000 pounds of milk six years ago, now average over 8,000 pounds.' The yield of this herd is thus seen to be *more than double* what it was.

W. R. Bigham, Culloden, writes, 'We have increased the average yield per cow about 2,000 pounds, our herd averaged about 7,300 pounds for 1910.'

Wm. Stock, Cassel, writes, 'My herd has increased from 5,000 to 8,000 pounds for each cow in two years.' This is a *60 per cent increase*.

H. R. Nixon, St. George, writes, 'My herd has increased ten per cent in the milk yield.'

E. Mollen, Cambray, writes, 'I have achieved an increase of at least twenty-five per cent.'

W. C. Shearer, Bright, writes, 'Our average has raised from 6,000 to 6,666 pounds in three years.'

Joseph Standeven, St. Marys, writes, 'The average per cow was 384 pounds of milk higher than in 1909.'

J. W. Jewson, Stone Quarry, writes, 'We have a marked increase in pounds of milk produced, in some cases equal to 1,000 pounds per cow.'

E. O. Finch, Mapleton, writes, 'All the herd show a large increase, one four-year-old gave 12,000 pounds of milk.'

Jonathan Austin, Lynn Valley, writes, 'My herd now averages over 6,000 pounds per cow.'

George Bishop, Norwich, writes, 'Two years ago before keeping records our herd of 12 cows averaged less than 6,000 pounds; this year, 13 cows average over 8,000 pounds.' This is an increase of *over 33 per cent.*

W. E. Thomson, Woodstock, writes, 'I have raised the average of my herd from 5,500 to 10,400 pounds per cow.' This is a case where the yield has been *almost doubled.*

William Kaufman, Cassel, writes, 'My cows gave me about 1,000 pounds more milk in 1910 than in 1909.'

Thos. F. Ritchie, Allan's Mills, writes, 'My five best cows gave over 1,100 pounds more milk in June this year than in June last year.'

Walter Paterson, Ingersoll, writes, 'In 1907 the average of 11 cows was 5,852 pounds, and in 1910 the average of 9, including heifers, was up to 7,446 pounds.' This is an increase of 1,594 pounds, or *27 per cent.*

Wm. Beddie, Prescott, writes, 'In 1907 the average yield was 3,794 pounds, in 1910 it was 6,000 pounds.' This is an increase of 2,206 pounds per cow, or *fifty per cent.*, in three years.

M. Hartley, Norwich, writes, 'Our 14 cows including six heifers, now average 9,000 pounds of milk.'

J. K. Moore & Son, Peterborough, with a herd of twenty, increased the yield 2,269 pounds of milk per cow in two years, or *33 per cent.*

H. German, St. George, writes, 'Our increase is from 7,000 to 9,000 pounds of milk per cow.'

#### QUEBEC.

Chas. Wilkins, East Farnham, writes, 'In 1908 our cows gave a revenue of \$20 each, but in 1910 it was \$41.43,' or *more than twice as much.*

S. W. Talmadge, Sweetsburg, writes, 'My cows are doing about one-half better.'

Geo. H. Montgomery, Philipsburg, writes, 'The revenue was increased \$604 in four years.' This is equivalent to a gain of *thirty-two per cent.*

H. F. Green, Clarenceville, writes, 'Our cows have increased the flow of milk one-third.'

H. D. Snow, Coaticook, writes, 'Our average yield has increased at least twenty-five per cent.'

D. F. Hawley, Nutt's Corner, writes, 'We have made a twenty-five per cent gain.'

S. A. Cleland, Hemmingford writes, 'Previous to weighing and keeping records, our average returns per cow were only about \$40, last year it was \$60.' This is an increase of *seventy-two per cent.*

W. P. Dimick, South Stukeley, writes, 'It would be hard to estimate the value of cow testing in dollars and cents as yet, but I would not take a good deal for the knowledge I now have.'

F. E. Miller, Clarenceville, writes, 'The returns from my eleven cows this year exceeded those of last year by \$150.'

W. F. Kay, Philipsburg, has increased the yield from 5,218 pounds of milk from 13 cows in 1906, to 6,482 pounds from 17 cows in 1910. This is *twenty-four per cent.*

Geo. Bradley, St. Armand, has increased in three years from 3,986 pounds per cow to 5,061 pounds. This is *twenty-seven per cent.*

W. Auger, Ste. Emelie de Lotbinière, has increased in three years from 3,275 pounds per cow to 4,303 pounds. This is *thirty-one per cent.*

Theo. Trudel, St. Prosper, with 15 cows has raised the average from 5,534 pounds per cow to 6,725 pounds in three years.

R. H. Reynolds, Aird, in 1908 had an average of 3,792 pounds of milk from 10 cows, but in 1910 his 12 cows averaged 7,269 pounds of milk and 230 pounds of fat.

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This is an increase of *eighty-one per cent* in the yield of fat, and *ninety-one per cent* in the yield of milk.

M. T. Macfie, Aird, also in two years has increased *sixty-one per cent*, from 2,801 pounds of milk up to 4,602 pounds per cow.

T. B. Stalk, Kelvingrove, with 13 cows in 1908 averaged 4,199 pounds of milk, but in 1910 the average yield of 15 cows was 5,760 pounds of milk, or an increase of *thirty-seven per cent*.

Trefflé Morin, Notre Dame de Stanbridge, writes: 'Our cows have increased 1,000 pounds of milk on the average over last year.'

Cyrille Laurin fils, Côté St. Herman, writes: 'We have made over \$15 per cow more this year'

## MARITIME PROVINCES.

Robert Murray, Marshville, N.S., writes, 'From 4 cows in 1908 I sold 587 pounds of butter; from 6 cows in 1910 I sold 1,400 pounds.' This is an increase of *sixty-eight per cent*.

Hugh J. McLeod, Heathbell, N.S., writes, 'We are getting about 50 per cent more milk.'

Byron McLeod, Penobsquis, N.B., writes, 'The average of butter fat increased twenty pounds per cow in 1910 over 1909.'

J. L. Blakeney, Victoria Mills, N.B., writes, 'We are getting at least one-quarter more milk.'

Ora C. Hicks, Petitcodiac, N.B., writes, 'We have greatly increased in total of milk from the same number of cows.'

S. J. Goodliffe, Sussex, N.B., writes, 'In seven years the average was brought up from 4,590 to 7,835 pounds of milk per cow.' This is an increase of *seventy per cent*.

M. A. Smith, Hoyt Station, N.B., writes, 'I have *just about doubled* the average yield of milk.'

T. W. Bentley, Kensington, P.E.I., writes, 'My increase is about \$15 per cow in three years.'

P. S. McIntyre, Kensington, P.E.I., writes, 'Our six cows increased 4,800 pounds over last year.'

W. H. McGregor, Miscouche, P.E.I., writes, 'We have increased several hundred pounds of milk per cow.'

W. D. McCormack, Launching, P.E.I., writes, 'Our cows have increased 2,000 pounds of milk.'

M. C. Quigley, North Tyron, P.E.I., writes, 'I am getting about \$20 per cow more.'

A. McRae & Sons, East Royalty, P.E.I., writes: 'We are averaging at least *one third more* per cow.'

J. Seaman, Breadalbane, P.E.I., writes, 'My herd now gives me *three times as much milk* per cow'

## BRITISH COLUMBIA.

Halliday Bros., Sandwick, write, 'We have *more than doubled* our output.'

G. S. Harris, Moresby Island, writes, 'I have raised my average yield of fat *nearly forty pounds* per cow.'

G. G. Baiss, Maple Bay, writes, 'In  $3\frac{1}{2}$  years the average per cow has increased from \$7 per month to \$12 per month.' This is over *seventy-one per cent*.

A. W. Haine, Dewdney, writes, 'In 5 years we have raised the average more than 2,000 pounds of milk per cow.'



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Horatio Webb, Sardis, writes, 'The average of my herd has increased *one-third* in the amount of butter fat per cow.'

The increases detailed above, coupled with those published in the report of last year, furnish the strongest possible incentive for every dairy farmer to test each cow in his herd systematically. Such results mean definite saving of time, energy, feed and thought at present bestowed on cows not worth keeping; and mean, besides the very satisfactory increases in cash receipts, a decided raising of the whole tone of dairy farming.

## PART II.—EXTENSION OF MARKETS



## PART II—EXTENSION OF MARKETS.

FROM THE CHIEF OF THE EXTENSION OF MARKETS DIVISION, TO THE DAIRY AND COLD STORAGE COMMISSIONER.

SIR,—I have the honour to present herewith the report of the Extension of Markets Division for the year ending March 31, 1911.

During the year, nineteen men were employed in the outside service of this Division, twelve as cargo inspectors at the ports of Montreal, Quebec, Liverpool, Manchester, London, Glasgow and Bristol, six as refrigerator car inspectors in connection with the special railway services for the carriage of butter, which were in operation from the middle of May to the middle of October, and one inspector in the maritime provinces to look after shipments of Prince Edward Island cheese and Nova Scotian apples exported through the port of Halifax. Eight of the above staff are employed by the year, the others for periods ranging from five to seven months.

### IMPROVED TRANSPORTATION CONDITIONS FOR PRINCE EDWARD ISLAND CHEESE.

On account of complaints received from London, England, that a few shipments of Prince Edward Island cheese had arrived there in a heated condition in the summer of 1909, it was decided to detail an inspector to look into the conditions surrounding the transportation of cheese from the factory in Prince Edward Island to the steamship at Halifax, and accordingly in June, Mr. Thomas A. Peters was assigned to this work. He accompanied several lots of cheese from the factory on the Island to Halifax and by the use of thermographs secured a record of the temperature en route. In each case the same thermograph was placed in the ship at Halifax so that we had a continuous record of temperature from Charlottetown to Pictou by boat, Pictou to Halifax by rail and Halifax to London by steamer. This office received full reports on each shipment, both from Mr. Peters and from the cargo inspectors at London and Liverpool, and as soon as the thermograph records were received from the latter, blue print copies were made in this office and forwarded to the secretary of the Prince Edward Island Dairymen's Association and to the secretary of the Cheese Board, Charlottetown. Following is a copy of Mr. Peter's final report:—

CHARLOTTETOWN, P.E.I., October 1, 1910.

W. W. MOORE, Esq.,  
Chief, Markets Division,  
Ottawa.

DEAR SIR,—As per your instructions, during the months of July, August and September I have been following the shipments of cheese from Prince Edward Island to Halifax to be forwarded to England, placing thermographs with each shipment at Charlottetown, transferring same to cars at Pictou and stowing with cheese on board steamships at Halifax. Up to September 30, I have followed twelve shipments sent to London and Liverpool.

### CONDITIONS OF CARRIAGE.

Cheese were shipped from Charlottetown per ss. *Northumberland* to Pictou and I found them to be carefully handled. As the steamer's boiler and machinery are in

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the centre of the boat, and the storage deck in near vicinity, there is naturally some heat, but as the passage is only about three and a half hours, very little, if any, damage is done.

At Pictou, cheese are transferred to Intercolonial Railway and were well handled there also. From conversation with different officials, I learned that the practice in former years had been to close all car doors tightly and after arrival at Halifax, if steamer was not ready, the cars often stood on track in the open for several days.

I made arrangements to have railway agent at Pictou notified one day in advance of shipment, and he had cars placed in shed over night with doors left open. When loaded both sides and end doors were left open three or four inches to give a current of air. These cars left Pictou at 7.20 p.m., arriving in Halifax early next morning, and on arrival were immediately placed in shipping shed at steamship wharf. As this shed is built over the water and the doors are open all day, I found the temperature to be an average of 4 degrees lower than up town 'in the shade.'

To test the difference between cars closed and others left slightly open, I placed thermographs in two cars from Alberton to Charlottetown on the same day. The temperature in the open car was 4 degrees lower than in the closed one. These cars were two days on the road, lying at Summerside over night.

#### STEAMSHIPS AND LOADING.

The Furness Withy steamers on which all these cheese were shipped have no cold storage chambers but all have ventilators and some of them have fans to create a current of air in the hold. Loading was mostly done by sliding the boxes down a chute. As the cheese were all stowed in 'tween decks the slide was not steep. A man stood near the bottom and caught each box, none being allowed to strike. Slings holding twenty-seven boxes were tried but did not work as well as the slide.

#### CONCLUSIONS.

With care being taken along the route to see that car doors are left open so there will be a current of air, and if the cars are placed under cover at once on arrival at Halifax, I see no reason why the cheese should not be delivered on board the steamships in good order. If they are to arrive in Halifax three or more days in advance of the loading on steamer (in warm weather) they should be loaded in iced refrigerator cars at Pictou and re-iced after arrival in shed at Halifax.

Yours truly,

THOS. A. PETERS.

That our supervision of these shipments was productive of good results is evident by the following resolution which was passed by the Prince Edward Island Cheese Board, Charlottetown, on October 14, 1910:—

'Resolved, that this Cheese Board hereby record its appreciation of the result of the attention to shipment of cheese from our province this season. The improvement has been highly satisfactory.'

'Resolved, that a copy of this resolution be forwarded to Mr. Ruddick.'

#### THE OUTLOOK FOR CANADIAN TOMATOES IN GREAT BRITAIN.

Owing to the number of inquiries received by this branch regarding the possibility of supplying Canadian tomatoes to the markets of Great Britain, a circular was prepared by this division and issued in printed form in December last as No. 3 of series D and C. Copies will be furnished free on application to this office.



## SESSIONAL PAPER No. 15a

## TRIAL SHIPMENTS OF PEACHES

In September and October trial shipments of peaches were made to Great Britain by this Branch in order to determine if Canadian peaches could be landed in good condition and, if so, whether or not they would find a remunerative market. The peaches were wrapped in tissue and were packed in wood wool in single layer cases holding from 20 to 23 peaches each. For convenience in handling three cases were banded together and the packing and packages were pronounced perfect by the receivers in the Old Country. The fruit was packed at St. Catharines, carried to Montreal in refrigerator cars and shipped in cold storage to the following markets:—Liverpool, Manchester, Leeds, London, Bristol, Cardiff, Birmingham and Glasgow. The result of these shipments indicates that there is a profitable market in Great Britain for a limited quantity of Canadian peaches provided they are of fine quality, that they are picked at the right time, and that they are carefully and properly packed. Full information regarding these shipments will be found in bulletin No. 27, which is now in the press.

## COMPARATIVE PRICES OF BUTTER, CHEESE, HOGS, &amp;C., IN VARIOUS MARKETS.

For some years the compilation of wholesale market prices of farm and food products in various markets in Canada, the United States and England has formed part of the work of this Division and in view of the interest recently aroused in the question of comparative market prices, as well as for the sake of a permanent record, I have deemed it desirable to incorporate in this report some of the statements we have prepared, covering the period from the first of the year 1910 to March 31, 1911.

STATEMENT showing Range of Wholesale Prices for Butter at Boston, New York, Chicago, Toronto and Halifax, for each Month of 1910.

Month.	BOSTON.	NEW YORK.	CHICAGO.	MONTREAL.	TORONTO.	HALIFAX.
	"Firsts" and "Extras."	"Firsts" and "Extras."	"Firsts" and "Extras."	"Finest Creamery" (Solid pack).	"Finest Creamery" (Solid pack)	"Best Creamery Solids."
1910.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.
January.....	30 - 34½	29 - 35	28 - 35	25½ - 26	26 - 27	25½
February.....	28 - 32½	26 - 31	26 - 30	25½ - 26	26 - 28	25½
March.....	28 - 32½	29½ - 34	28 - 32½	25½ - 28	26 - 28	25½
April.....	29 - 32	27½ - 32	27 - 32	28 - 32	27 - 29	27½
May.....	27½ - 31	27½ - 29	25 - 28½	24 - 30	23 - 27	30½
June.....	27 - 29	26½ - 28½	26½ - 28½	22½ - 23½	22 - 23	24½
July.....	27 - 29½	26 - 29	26 - 29½	22½ - 23	22 - 23	24½
August.....	27 - 30	26½ - 31	26½ - 29½	22 - 24	23 - 24	23
September.....	27 - 30	27 - 31	26 - 31	23½ - 25	23 - 24	24
October.....	27 - 29½	27 - 31	26 - 31	24 - 24½	24 - 25	24½
November.....	28 - 31½	27 - 32	26½ - 30½	24½ - 25½	.. - 25	24½
December.....	27 - 30	26½ - 31	25½ - 30	25½ - 26	.. - 25	25½

NOTE.—In Boston, New York and Chicago the highest grade of butter is classed as 'Specials,' the next grade as 'Extras' and the next as 'Firsts.' It will be noted that 'Specials' are not included in the above statement which is confined to the next two lower grades. In each case the lowest quotation for 'Firsts' and the highest quotation for 'Extras' in each month is given.

In Montreal and Toronto the lowest and highest quotations in each month for the best grade of creamery butter packed solidly in boxes is given.

(United States prices taken from the *New York Produce Review*; Canadian prices from *Montreal Trade Bulletin*, *Farmer's Advocate*, &c.)

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STATEMENT showing Wholesale Prices for Butter at Boston, New York, Chicago, Montreal, Toronto and Halifax, each week from January 9, to March 27, 1911.

Week.	BOSTON.	NEW YORK.	CHICAGO.	MONTREAL.	TORONTO.	HALIFAX.
	"Extras."	"Extras."	"Extras."	"Finest Creamery." (Solid pack.)	* "Creamery Prints."	"Creamery Solids."
1911.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.
Jan. 9.....	30 - 31	27½ - ..	28	25½ - ..	25½ - 26	26 - 27
" 16.....	29 - 30	26 - ..	25	25½ - 25½	25 - 25½	26 - 27
" 23.....	28 - 29	25 - 25½	25	25½ - 25½	24½ - 25	26 - 27
" 30.....	28 - 29	25 - 25½	25	25 - 25½	23 - 26	26 - 27
Feb. 6.....	28 - 29	26 - 26½	25	25 - 25½	26 - 28	26 - 27
" 13.....	28 - 29	27 - 27½	26½	24½ - 25	25 - 27	.....
" 20.....	.....	25 - 26	.....	24 - 25	25 - 27	.....
" 27.....	27 - 28	24 - ..	26½	26 - 26½	26 - 27	25 - 28
March 6.....	25½ - 26½	24 - ..	26	26 - 26½	.....	25 - 28
" 13.....	.....	25½ - 26	26	26 - 27	24 - 25	25 - 27
" 20.....	25 - ..	.. - 24½	25	26 - 27	.....	25 - 27
" 27.....	23½ - ..	22½ - ..	22	26 - 26½	26 - 27	25 - 27

\* In Toronto the price of "creamery prints" is usually one cent per pound higher than creamery "Solid pack."

NOTE.—Boston, New York and Chicago quotations taken from the *Elgin Dairy Report*, Elgin, Illinois; Montreal quotations from the *Gazette*, Montreal, and Toronto quotations from *The Weekly Sun*, Toronto.

STATEMENT showing Range of Wholesale Prices for Cheese at Boston, New York, Chicago, Montreal and Toronto, each month of 1910.

Month.	Boston.	New York.	Chicago.	Montreal.	Toronto.
1910.	Cts.	Cts.	Cts.	Cts.	Cts.
January .....	15 - 17½	17 - 17½	.....	11½ - 12½	..... - 13½
February .....	15 - 17½	..... - 17½	16 - 16½	12 - 12½	..... - 13
March .....	15 - 17½	..... - 17½	16½ - 16½	12½ - 13	..... - 13
April .....	15 - 17½	17 - 17½	14 - 15½	11½ - 13	..... - 13
May .....	15 - 15½	13½ - 14½	14 - 14½	11 - 11½	12 - 13
June .....	..... - 15	13½ - 14½	15 - 15½	10½ - 11½	11 - 12
July .....	..... - 15½	14½ - 15½	15½ - 16½	10½ - 11½	11½ - 12
August .....	14½ - 15½	14½ - 15½	15½ - 16½	10½ - 11½	11½ - 12
September .....	14½ - 15½	15 - 15½	15½ - 16½	11 - 11½	..... - 12
October .....	14 - 15½	14½ - 15½	15 - 16½	11½ - 11½	..... - 12
November .....	14 - 15	15 - 15½	15 - 16	11½ - 11½	..... - 12
December .....	14 - 15	15½ - 15½	14½ - 15½	11½ - 12½	..... - 12



FIG. 1.—A British Columbia Creamery.



FIG. 2.—A Northern Ontario Creamery showing Tanks for Collecting Cream.







FIG. 1.—Fruit Growing on the St. John River, above Fredericton, N. B.



FIG. 2.—A McIntosh Red Apple Tree in New Brunswick.





## SESSIONAL PAPER No. 15a

STATEMENT showing Wholesale Prices for Cheese at Boston, New York, Chicago, Montreal and Toronto, each week from January 9 to March 27, 1911.

Week.	BOSTON.	NEW YORK.	CHICAGO.	MONTREAL.	TORONTO.
	"N. Y. Twins."	"Fancy Coloured."	"Young Americas."	"Westerns."	"Westerns."
1911.	Cts.	Cts.	Cts.	Cts.	Cts.
Jan. 9 .....	14 $\frac{1}{2}$ - 15	15 $\frac{1}{2}$ - ..	14 $\frac{3}{4}$	12 - 12 $\frac{1}{2}$	12 $\frac{1}{2}$
" 16 .....	14 $\frac{1}{2}$ - 15	15 $\frac{1}{4}$ - 15 $\frac{1}{2}$	14 $\frac{3}{4}$	11 $\frac{5}{8}$ - 12 $\frac{1}{4}$	12 $\frac{1}{2}$
" 23 .....	14 $\frac{1}{2}$ - 15	15 - 15 $\frac{1}{4}$	15 $\frac{1}{4}$	11 - 12 $\frac{1}{4}$	13
" 30 .....	14 $\frac{1}{2}$ - 15	15 - ..	15 $\frac{1}{4}$	11 - 12 $\frac{1}{2}$	..
Feb. 6 .....	14 $\frac{1}{2}$ - 15	14 $\frac{3}{4}$ - 15	15	11 - 12 $\frac{1}{2}$	13
" 13 .....	14 $\frac{1}{2}$ - 15	14 $\frac{3}{4}$ - 15	15	11 $\frac{1}{2}$ - 12	13
" 20 .....	.. ..	14 $\frac{1}{2}$ - 15	..	11 $\frac{3}{4}$ - 12	13
" 27 .....	14 $\frac{1}{2}$ - ..	14 $\frac{1}{2}$ - 15	15	11 - 12	13
Mar. 6 .....	14 $\frac{1}{2}$ - ..	14 - 14 $\frac{1}{4}$	15	11 $\frac{1}{2}$ - 12	13 $\frac{1}{2}$
" 13 .....	14 $\frac{1}{2}$ - ..	14 - 14 $\frac{1}{4}$	15	12 - 12 $\frac{1}{2}$	13 $\frac{3}{4}$
" 20 .....	13 - 13 $\frac{1}{2}$	14 - ..	15	12 - 12 $\frac{1}{2}$	13 $\frac{3}{4}$
" 27 .....	13 - 13 $\frac{1}{2}$	.. - 14	15	12 - 12 $\frac{1}{2}$	14

NOTE.—Boston and Chicago quotations taken from the *Elgin Dairy Report*, Elgin, Illinois; New York quotations from *The Producers' Price-Current*, New York; Montreal quotations from *The Gazette*, Montreal, and Toronto quotations from *The Weekly Globe*, Toronto.

STATEMENT showing Range of Wholesale Prices for Eggs at Boston, New York, Chicago, Montreal, Toronto and Halifax, each Month of 1910.

Month.	BOSTON.	NEW YORK.	CHICAGO.	MONTREAL.	TORONTO.	HALIFAX.
	"Firsts."	"Firsts."	"Firsts."	"Firsts."	"Firsts."	"Selects."
1910.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.
January .....	30 - 35	33 $\frac{1}{2}$ - 41	31 - 35	26 $\frac{1}{2}$ - 29	26 - 28	28
February .....	26 - 34	24 $\frac{1}{2}$ - 32	23 $\frac{1}{2}$ - 29	26 $\frac{1}{2}$ - 29	.. - 27	27
March .....	23 - 24 $\frac{1}{2}$	20 - 27	20 - 23	.....	26 - 27	23
April .....	21 $\frac{1}{2}$ - 22 $\frac{1}{2}$	20 - 23	19 $\frac{1}{2}$ - 21	19 - 20	21 - 22	18
May .....	21 - 22	19 $\frac{1}{2}$ - 21 $\frac{1}{2}$	17 $\frac{1}{2}$ - 19 $\frac{1}{2}$	20 - 22 $\frac{1}{2}$	20 - 22	17
June .....	19 $\frac{1}{2}$ - 21	18 $\frac{1}{2}$ - 21	17 $\frac{1}{2}$ - 18 $\frac{1}{2}$	21 - 22 $\frac{1}{2}$	20 - 21	17
July .....	17 - 19	17 - 19	17 - 18 $\frac{1}{2}$	21 - 22	.. - 20	16 $\frac{1}{2}$
August .....	18 - 20 $\frac{1}{2}$	18 - 23	17 - 19	21 - 22	19 - 20	17
September .....	22 - 24 $\frac{1}{2}$	22 $\frac{1}{2}$ - 25	19 $\frac{1}{2}$ - 22	23 $\frac{1}{2}$ - 25	20 - 24	20
October .....	24 - 29	24 - 28	21 $\frac{1}{2}$ - 26 $\frac{1}{2}$	25 - 28	24 - 26	22
November .....	30 - 35	27 - 35	27 - 32	27 - 30	25 - 27	24
December .....	30 - 36	32 - 37	28 - 32	29 - 30	26 - 28	26

2 GEORGE V., A. 1912

STATEMENT showing Wholesale Prices for Eggs at Boston, New York, Chicago, Montreal, Toronto and Halifax, each week from January 9 to March 27, 1911.

Week.	BOSTON.	NEW YORK.	CHICAGO.	MONTREAL.	TORONTO.	HALIFAX.
	"Firsts."	"Firsts."	"Firsts."	"Selects."	"Held Fresh."	New Laid.
1911.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.
Jan. 9	32 - 34	34 - 35	30	32	28 - 30	.....
" 16	27 - 28	- 28	27	32	25 - 26	32 - 33
" 23	25 - 26	.....	23	30	26 - 27	.....
" 30	23 - 24	22½ - 23	23	28	.....	- 23
Feb. 6	22 - 23	22 - 22½	22	28	22 - 23	- 28
" 13	20½ - 21	.....	15	28	.....	.....
" 20	.....	.....	.....	23	25 - 26	.....
" 27	18 -	17 - 17½	16	23	17 - 18	- 26
Mar. 6	18 -	.....	16½	23	14 - 15	.....
" 13	.....	17½ - 18	16	23	.....	- 25
" 20	18 -	17 - 17½	15	22	.....	.....
" 27	16 -	15¾ - 16	14½	23	18 - 19	- 22

NOTE.—Boston, New York and Chicago quotations taken from the *Elgin Dairy Report*, Elgin, Illinois; Montreal quotations from *The Gazette*, Montreal, and Toronto quotations from *The Weekly Sun*, Toronto.

STATEMENT showing range of Wholesale Prices for Dressed Poultry at New York, Montreal and Toronto each month of 1910.

Month.	NEW YORK.	MONTREAL.	TORONTO.
	"Chickens."	"Chickens."	"Chickens."
1910.	cts.	cts.	cts.
January	16 - 21	15 - 16	14 - 17
February	16 - 21	.....	15 - 18
March	16 - 17	.....	16 - 21
April	16 - 17	.....	.....
May	25 - 35	.....	.....
June	22 - 32	.....	.....
July	17 - 27	.....	16 - 18
August	14 - 19½	.....	- 20
September	15 - 18	.....	13 - 18
October	13½ - 17	11 - 11½	.....
November	13 - 18	11 - 14	12 - 16
December	12 - 18	13 - 16	12½ - 16

## SESSIONAL PAPER No. 15a

STATEMENT showing Wholesale Prices for *Dressed Poultry* at New York, Montreal and Toronto, each week from January 9 to March 27, 1911.

Week.	NEW YORK.	MONTREAL.	TORONTO.
	" Chickens." (Phila. Average Run).	" Chickens."	" Chickens."
1911.	cts.	cts.	cts.
January 9.....	16 - 17	12 - 15	16 - 17
" 16.....	16 - 17	11 - 13	15 - 18
" 23.....	17 - 18	11 - 13	.. - 17
" 30.....	17 - 18	11 - 13	16 - 18
February 6.....	17 - 18	13 - 15	17 - 18
" 13.....	17 - 18	11 - 13	15 - 16
" 20.....	17 - 18	11 - 13	16 - 17
" 27.....	17 - 18	11 - 13	17 - 19
March 6.....	17 - 18	11 - 13	16 - 20
" 13.....	17 - 18	.....	17 - 19
" 20.....	17 - 18	.....	.....
" 27.....	17 - 18	.....	18 - 19

NOTE.—New York quotations taken from the *Producers' Price-Current*; Montreal quotations from *The Gazette*, and Toronto quotations from *The Weekly Sun*.

2 GEORGE V., A. 1912

STATEMENT showing market quotations for Live Hogs at Chicago, Buffalo, Toronto and Montreal, each week from January 19, 1910, to March 30, 1911.

CHICAGO.			BUFFALO.			TORONTO.			MONTREAL.		
Date.	Live Hogs. — "Selected Bacons."		Date.	Live Hogs. — "Yorkers."		Date.	Live Hogs. — "Selected off Cars."		Date.	Live Hogs. — "Selected off Cars."	
1910.	\$ cts.	\$ cts.	1910.	\$ cts.	\$ cts.	1910.	\$ cts.	\$ cts.	1910.	\$ cts.	\$ cts.
Jan. 19....	8 45	8 50	Jan. 20....	8 90	9 10	Jan. 20....	8 90	9 00	Jan. 20....	9 00	9 25
" 26....	8 10	8 15	" 27....	8 75	8 85	" 27....	8 90	—	" 27....	9 00	—
Feb. 2....	8 50	8 60	Feb. 3....	8 50	8 70	Feb. 2....	8 65	—	Feb. 3....	9 00	—
" 9....	8 65	8 70	" 10....	8 85	8 90	" 9....	8 40	—	" 10....	9 00	9 50
" 16....	8 95	9 05	" 17....	9 15	9 25	" 16....	8 65	—	" 17....	9 25	—
" 23....	9 50	9 55	" 24....	9 55	9 65	" 23....	8 90	—	" 24....	9 35	9 50
Mar. 2....	9 55	9 95	Mar. 3....	9 75	9 95	Mar. 2....	8 90	—	Mar. 3....	9 60	9 70
" 9....	10 50	10 55	" 10....	—	—	" 9....	9 50	—	" 10....	9 85	9 95
" 16....	10 65	10 70	" 17....	10 75	10 95	" 16....	9 75	—	" 17....	10 20	10 35
" 23....	10 75	10 85	" 24....	10 85	11 15	" 23....	10 00	—	" 24....	10 75	—
" 30....	10 70	10 80	" 31....	10 50	11 20	" 30....	10 15	—	" 31....	10 75	—
Apr. 6....	10 50	10 60	Apr. 7....	10 90	11 20	Apr. 6....	9 90	—	Apr. 7....	10 40	10 50
" 13....	10 05	10 15	" 14....	10 85	10 90	" 13....	9 65	—	" 14....	10 00	10 50
" 20....	9 10	9 25	" 21....	10 25	10 30	" 20....	9 50	—	" 21....	10 20	10 35
" 27....	9 45	9 45	" 28....	9 65	9 80	" 27....	9 10	—	" 28....	9 90	10 15
May 4....	9 40	9 50	May 5....	9 90	10 10	May 4....	9 25	—	May 5....	9 75	—
" 11....	9 65	9 80	" 12....	10 15	10 25	" 11....	9 40	—	" 12....	10 60	10 25
" 18....	9 70	9 80	" 19....	10 05	10 20	" 18....	9 75	9 90	" 19....	10 25	10 50
" 25....	9 45	9 50	" 26....	10 05	10 20	" 25....	9 90	—	" 26....	10 50	10 60
June 1....	9 60	9 65	June 2....	9 75	9 85	June 1....	10 00	—	June 2....	10 25	10 50
" 8....	9 60	9 65	" 9....	9 70	9 80	" 8....	9 50	—	" 9....	10 00	—
" 15....	9 65	9 70	" 16....	9 75	10 10	" 15....	9 50	—	" 16....	10 00	—
" 22....	9 45	9 55	" 23....	9 70	9 85	" 22....	9 50	—	" 23....	9 75	10 00
" 29....	9 30	9 40	" 30....	9 75	10 00	" 29....	9 25	—	" 30....	9 50	9 75
July 6....	9 45	9 60	July 7....	9 55	9 75	July 6....	9 25	—	July 7....	9 50	9 75
" 13....	9 00	9 30	" 14....	9 53	10 00	" 13....	9 25	9 50	" 14....	9 60	9 75
" 20....	8 80	9 00	" 21....	9 50	9 80	" 20....	9 60	9 75	" 21....	10 00	10 20
" 27....	8 90	9 05	" 28....	9 25	9 60	" 27....	9 75	9 90	" 28....	10 50	10 75
Aug. 3....	8 70	8 90	Aug. 4....	9 20	9 65	Aug. 3....	9 60	—	Aug. 4....	10 25	10 50
" 10....	8 80	9 00	" 11....	9 30	9 50	" 10....	8 85	—	" 11....	9 50	9 60
" 17....	8 80	9 00	" 18....	9 25	9 65	" 17....	8 75	—	" 18....	9 25	9 50
" 24....	9 20	9 35	" 25....	9 15	9 30	" 24....	9 00	—	" 25....	9 25	9 50
" 31....	9 60	9 70	Sept. 1....	9 50	9 55	" 31....	9 00	—	Sept. 1....	9 25	9 50
Sept. 7....	9 70	9 90	" 8....	9 90	10 10	Sept. 7....	9 25	—	" 8....	9 25	—
" 14....	9 20	9 55	" 15....	9 90	10 10	" 14....	9 25	—	" 15....	9 25	—
" 21....	9 20	9 30	" 22....	9 90	10 05	" 21....	9 00	9 25	" 22....	9 25	—
" 28....	9 20	9 35	" 29....	9 60	9 90	" 28....	9 00	9 25	" 29....	9 25	9 40
Oct. 5....	8 90	9 10	Oct. 6....	9 10	9 25	Oct. 5....	9 00	—	Oct. 6....	9 00	9 25
" 12....	9 00	9 25	" 13....	9 50	9 55	" 12....	8 75	—	" 13....	9 00	9 25
" 19....	9 25	9 60	" 20....	9 30	9 40	" 19....	8 55	—	" 20....	8 25	—
" 26....	8 80	9 10	" 27....	9 20	9 25	" 26....	7 85	—	" 27....	7 50	7 75
Nov. 2....	8 40	8 65	Nov. 3....	9 05	9 10	Nov. 2....	7 40	7 65	Nov. 3....	7 50	8 00
" 9....	7 80	7 95	" 10....	8 30	8 40	" 9....	7 25	7 35	" 10....	7 00	7 25
" 16....	7 30	7 45	" 17....	8 20	8 30	" 16....	7 15	—	" 17....	7 00	7 25
" 23....	6 90	7 10	" 24....	7 40	7 50	" 23....	7 25	—	" 24....	7 10	7 25
" 30....	7 10	7 20	" 25....	7 25	7 35	" 30....	7 25	7 35	" 25....	7 10	7 25
Dec. 7....	7 50	7 60	Dec. 1....	7 80	8 00	Dec. 7....	7 00	—	Dec. 1....	7 10	7 25
" 14....	—	—	" 15....	8 05	8 10	" 14....	7 00	—	" 15....	7 10	7 25
" 21....	7 85	7 95	" 22....	7 90	8 10	" 21....	7 00	7 10	" 22....	7 00	7 10
" 28....	7 80	7 90	" 29....	8 15	8 20	" 28....	7 00	—	" 29....	7 80	7 95
1911.			1911.			1911.			1911.		
Jan. 4....	8 15	8 25	Jan. 5....	8 30	8 40	Jan. 4....	7 40	—	Jan. 6....	7 85	8 20
" 11....	7 85	7 90	" 12....	8 50	8 75	" 11....	7 65	—	" 13....	7 75	8 20
" 18....	8 00	8 10	" 19....	8 35	—	" 18....	7 85	—	" 20....	8 00	8 10
" 25....	7 80	7 85	" 26....	8 45	8 50	" 25....	7 65	—	" 27....	8 10	8 25
Feb. 1....	7 65	7 85	Feb. 2....	8 40	8 50	Feb. 1....	7 60	—	Feb. 3....	7 90	8 00
" 8....	7 70	7 80	" 9....	8 10	8 35	" 8....	7 65	—	" 10....	7 85	8 00
" 15....	7 40	7 50	" 16....	8 15	8 40	" 15....	7 65	—	" 17....	8 00	—
" 22....	7 50	7 65	" 23....	8 05	8 10	" 22....	7 40	—	" 24....	7 65	8 00
Mar. 1....	7 25	7 35	Mar. 1....	7 85	8 00	Mar. 1....	7 25	—	Mar. 1....	7 50	7 75
" 8....	7 10	7 15	" 8....	7 55	7 55	" 8....	7 25	—	" 8....	7 40	7 50
" 15....	7 00	7 15	" 15....	7 65	7 70	" 15....	7 25	—	" 15....	7 25	7 30
" 22....	7 00	7 20	" 22....	7 50	7 60	" 22....	7 25	—	" 22....	7 40	7 50
" 29....	7 00	7 15	" 30....	7 25	7 40	" 29....	7 05	—	" 29....	7 40	—

NOTE.—Prices taken from the following sources:—Chicago, from *The Breeders' Gazette*; Buffalo, from *The Farmer's Advocate*; Toronto, from *The Weekly Sun*, and Montreal, from *The Journal of Commerce*



## SESSIONAL PAPER No. 15a

STATEMENT showing Market Quotations for Live Cattle at Winnipeg, Chicago and Toronto, each fortnight from January 5 to December 5, 1910.

Date.	WINNIPEG.				CHICAGO.				TORONTO.			
	"Choice Export Steers."		"Choice Butcher Steers."		Date.	"Steers."			"Choice Export Steers."	"Prime Butcher Steers."		
1910.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	1910.	\$ cts.	\$ cts.		\$ cts.	\$ cts.	\$ cts.	\$ cts.
Jan. 5	4 10	4 25	3 25	3 75	Jan. 5	5 00	8 00		5 75	6 00		
" 20	4 25	4 50	3 50	4 25	" 19	4 00	7 75		5 75	6 00	5 75	6 35
Feb. 5			5 00	5 25	Feb. 2	4 75	8 40		5 85	6 10	5 75	6 05
" 21			4 50	5 00	" 16	4 75	8 00		6 00	6 20	5 75	6 00
Mar. 5			4 50	4 75	Mar. 4	5 30	8 10		6 25	6 50	6 00	6 25
" 21			4 50	5 00	" 18	5 30	8 40		6 00	6 90	6 85	7 00
Apr. 5			4 75	5 65	Apr. 1	6 10	8 75		6 85	7 60	6 50	6 90
" 20			5 00	6 00	" 15	6 25	8 65		6 90	8 10	6 60	7 00
May 5	5 75	6 00	5 50	6 00	" 29	6 25	8 50		7 25	7 60	7 10	7 25
" 20	5 50	6 50	5 75	6 00	May 13	6 25	8 40		7 00	7 50	6 75	7 00
					" 20	6 25	8 60		7 00	7 50	6 75	7 00
June 6	5 75	6 00	5 50	6 00	June 10	6 25	8 60		7 00	7 50	6 75	7 10
" 20	5 75	6 00	5 50	6 00	" 24	5 70	8 75		7 25	7 75	6 50	7 00
July 5	5 75	6 00	5 35	5 75	July 8	6 25	8 50		6 90	7 15	6 25	6 75
" 29	5 50	5 75			" 22	5 20	8 50		6 90	7 25	6 75	6 85
Aug. 5	5 00	5 25	4 75	5 00	Aug. 5	4 65	8 20		6 70	6 90	6 25	6 50
" 20	4 50	5 00		4 50	" 19	4 50	8 20		6 25	6 85	6 25	6 50
Sept. 5	5 00	5 25			Sept. 2	4 90	8 40		6 25	6 50	6 00	6 25
" 20	4 75	5 00	4 50	4 75	" 16	4 75	8 20		6 25	6 75	6 00	6 40
Oct. 5	4 50	4 75	4 25	4 50	" 30	4 75	8 20		6 25	7 00	6 00	6 25
" 20	4 50	4 75	4 00	4 25	Oct. 14	4 60	8 00		6 00	6 50	4 75	5 75
Nov. 5	4 50	4 75	4 00	4 25	" 28	4 60	7 80		6 00	6 40	5 50	6 00
" 21	4 00	4 50	3 50	3 75	Nov. 11	4 50	7 60		5 75	6 15	5 25	6 00
					" 18	4 50	7 40		5 75	6 25	5 25	5 75
Dec 5	5 00	5 25	4 65	4 75	Dec. 2	4 50	7 50		5 75	6 25	5 25	6 00

Winnipeg prices taken from *Nor-west Farmer*, other quotations from *Canadian Farm*,

CONTINUATION of statement showing Market Quotations for Live Cattle at Winnipeg, Chicago and Toronto each week from December 9, 1910, to February 24, 1911.

(From *Canadian Farm*).

Date.	WINNIPEG.				CHICAGO.		TORONTO.			
	"Choice Export Steers."		"Prime Butcher Steers."		Prime Steers.		"Choice Export Steers."	"Prime Butcher Steers."		
1910.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Dec. 9					4 50	7 25	5 75	6 10	5 50	6 00
" 16					4 50	7 10	5 75	6 25	5 50	7 10
" 23					4 50	7 55	5 75	6 25	6 00	6 40
" 30					4 50	6 30	5 75	5 80	5 50	5 85
1911.										
Jan. 6	5 00	5 25	4 25	4 50	6 75	7 00	5 25	6 00	5 50	5 85
" 13	5 00	5 25	4 25	4 50	6 75	7 10	5 25	6 25	5 50	6 00
" 20	5 00	5 25	4 75	5 00	6 50	6 75	6 00	6 25	5 75	6 00
" 27					6 75	7 10	6 00	6 35	5 80	6 25
Feb. 3			4 25	4 50	6 75	7 50	6 00	6 15	5 80	6 00
" 10			5 25	5 50	6 65	6 80	6 00	6 25	5 80	6 15
" 17			4 25	5 25	6 65	6 80	6 00	6 35	5 80	6 25
" 24			5 00	5 50	5 25	6 75	6 00	6 25	5 80	6 15
March 3			5 75	6 00	5 25	6 90	5 75	5 85	5 80	6 10
" 10			5 75	6 00	5 25	6 90	5 75	5 90	5 80	5 90
" 17			5 25	5 50	5 25	6 85	5 85	6 15	5 80	6 00
" 24			5 25	6 00	5 25	6 85	5 85	6 00	5 80	6 00
" 31			5 25	6 25	5 25	6 85	5 85	6 10	5 80	6 00

2 GEORGE V., A. 1912

STATEMENT showing Market Quotations for Live Cattle at New York, Buffalo and Montreal, each fortnight from January 5 to December 2, 1910, and each week from January 6 to March 31, 1911.

(From *Canadian Farm.*)

Date.	NEW YORK.		BUFFALO.		MONTREAL.	
	"Steers".		"Export Steers".		"Prime Steers".	
1910.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Jan. 5.....			5 85-6 40		6 00-7 50	5 00-5 75
" 19.....			6 00-6 50		6 65-7 00	5 25-6 25
Feb. 2.....	4 65-6 75		5 50-6 00		6 25-6 50	5 50-5 85
" 16.....	5 75-7 00		5 75-6 50		6 60-7 00	6 25-6 50
Mar. 4.....	5 75-7 50		6 00-6 65		6 75-7 25	6 00-6 25
" 18.....	4 80-7 65		6 50-7 00		7 25-7 90	6 00-6 65
Apr. 1.....	6 00-8 25		6 75-7 50		7 75-8 25	6 60-6 90
" 15.....	7 00-8 00		7 00-7 75		8 00-8 65	6 60-7 00
" 29.....	5 50-8 50		7 00-7 75		8 00-8 40	7 75-8 00
May 13.....	7 00-8 50		7 00-7 75		7 75-8 13	7 10-7 30
" 20.....	7 00-8 15		7 00-7 75		7 35-8 40	7 00-7 25
June 10.....	8 60-8 65		7 25-8 00		8 25-8 60	7 25-7 50
" 24.....	6 25-8 60		6 75-8 00		8 25-8 50	6 75-7 75
July 8.....	6 25-8 10		6 50-7 50		7 75-8 00	6 50-6 75
" 22.....	5 75-7 75		6 75-7 50		7 65-8 00	6 75-6 90
Aug. 5.....	4 65-7 25		5 75-7 00		7 25-7 75	6 50-6 60
" 19.....	4 30-7 35		6 00-7 00		7 25-7 60	6 00-6 25
Sept. 2.....	4 50-7 35		6 25-7 00		7 25-7 50	6 00-6 25
" 16.....	4 50-7 25		5 75-6 75		7 00-7 50	6 00-6 25
" 30.....	5 10-7 15		7 00-7 50		7 25-7 75	5 50-6 10
Oct. 14.....	4 60-6 95		6 60-6 75		7 15-7 50	5 50-5 75
" 28.....	4 60-6 95		5 85-6 50		7 00-7 25	5 50-6 00
Nov. 11.....	4 60-6 85		5 85-6 50		6 75-7 00	5 50-6 00
" 18.....	4 60-6 30		5 85-6 50		6 75-7 00	5 10-5 60
Dec. 2.....	4 60-6 70		5 50-6 25		6 40-6 75	5 50-5 65
" 9.....	4 60-6 70		5 50-6 25		6 40-6 75	5 50-5 65
" 16.....	4 60-6 70		5 50-6 25		6 40-6 75	5 65-6 00
" 23.....	4 60-6 50		5 50-6 25		6 40-6 75	5 65-6 00
" 31.....	4 60-6 50		5 50-6 35		6 46-6 75	5 65-6 00
1911.						
Jan. 6.....	4 60-6 50		5 50-6 35		6 40-6 75	5 75-6 00
" 13.....	5 60-6 40				6 50-6 75	5 75-6 25
" 20.....	5 60-6 40				6 50-6 75	5 75-6 25
" 27.....	5 60-6 40				6 50-6 75	6 00-6 50
Feb. 3.....	5 60-6 40				6 50-6 75	6 00-6 50
" 10.....	5 60-6 40				6 50-6 75	6 00-6 50
" 17.....	5 60-6 40				6 50-6 75	6 00-6 50
" 24.....	6 65-6 80					6 00-6 50
Mar. 3.....	6 65-6 85				6 50-6 75	6 00-6 50
" 10.....	6 65-7 00				6 25-6 60	6 00-6 50
" 17.....	6 65-7 00				No quotation.	6 50-6 75
" 24.....	6 50-6 65				"	6 25-6 50
" 31.....	6 50-6 65				6 40-6 60	6 25-6 50

## SESSIONAL PAPER No. 15a

STATEMENT showing Price of Cash Wheat at Minneapolis, Chicago, Winnipeg and Liverpool on the same day each week from July 5, 1910 to March 27, 1911.

Date.	MINNEAPOLIS.	CHICAGO.	WINNIPEG.	LIVERPOOL.
	No. 1 Northern, Per Bushel.	No. 1 Northern, Per Bushel.	No. 1 Northern, Per Bushel.	No. 1 Northern, (Manitoba) Per Bushel.
1910.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
July 5.....	1 16 <sup>7</sup> / <sub>8</sub>	1 14 <sup>1</sup> / <sub>2</sub>	1 02 <sup>3</sup> / <sub>4</sub>	1 10
" 12.....	1 18 <sup>1</sup> / <sub>2</sub>	1 21 <sup>1</sup> / <sub>2</sub>	1 09 <sup>1</sup> / <sub>2</sub>	1 14
" 19.....	1 24 <sup>1</sup> / <sub>2</sub>	1 26	1 14 <sup>1</sup> / <sub>2</sub>	1 27
" 26.....	1 26 <sup>1</sup> / <sub>2</sub>	1 26 <sup>3</sup> / <sub>4</sub>	1 13 <sup>1</sup> / <sub>4</sub>	1 28
Aug. 2.....	1 16 <sup>1</sup> / <sub>2</sub>	.....	.....	1 22
" 9.....	1 19	1 21 <sup>3</sup> / <sub>4</sub>	1 08 <sup>1</sup> / <sub>2</sub>	1 21
" 16.....	1 12 <sup>7</sup> / <sub>8</sub>	1 22 <sup>5</sup> / <sub>8</sub>	.....	1 26
" 23.....	1 12 <sup>5</sup> / <sub>8</sub>	1 21	1 08	1 24
" 30.....	1 13	.....	1 08 <sup>3</sup> / <sub>4</sub>	1 24
Sept. 6.....	1 12 <sup>1</sup> / <sub>2</sub>	1 16	1 05	1 25
" 13.....	1 11 <sup>3</sup> / <sub>4</sub>	1 14 <sup>1</sup> / <sub>2</sub>	1 02 <sup>1</sup> / <sub>2</sub>	1 22
" 20.....	1 11 <sup>1</sup> / <sub>2</sub>	1 15	1 01	1 22
" 27.....	1 10 <sup>3</sup> / <sub>4</sub>	1 11 <sup>1</sup> / <sub>2</sub>	0 99	1 21
Oct. 4.....	1 10 <sup>3</sup> / <sub>4</sub>	1 12	.....	1 19
" 11.....	1 08 <sup>3</sup> / <sub>4</sub>	1 12 <sup>1</sup> / <sub>2</sub>	0 97 <sup>1</sup> / <sub>4</sub>	1 19
" 18.....	1 04 <sup>3</sup> / <sub>4</sub>	1 07	.....	1 17
" 25.....	1 04 <sup>1</sup> / <sub>2</sub>	1 06	0 94 <sup>1</sup> / <sub>2</sub>	1 15
Nov. 1.....	1 01 <sup>5</sup> / <sub>8</sub>	.....	.....	1 11
" 8.....	.....	.....	0 90	1 04
" 15.....	1 06 <sup>3</sup> / <sub>4</sub>	1 04 <sup>3</sup> / <sub>4</sub>	.....	1 08
" 22.....	1 05 <sup>1</sup> / <sub>2</sub>	1 07	0 94 <sup>3</sup> / <sub>4</sub>	1 12
" 29.....	1 02 <sup>3</sup> / <sub>4</sub>	1 05 <sup>1</sup> / <sub>2</sub>	0 90	1 09
Dec. 6.....	1 04 <sup>3</sup> / <sub>4</sub>	1 08	0 91 <sup>1</sup> / <sub>2</sub>	1 10
" 13.....	1 02 <sup>1</sup> / <sub>2</sub>	.....	0 89 <sup>3</sup> / <sub>4</sub>	1 09
" 20.....	1 02	1 05 <sup>1</sup> / <sub>2</sub>	0 90	1 08
" 27.....	1 01 <sup>5</sup> / <sub>8</sub>	1 05	0 89 <sup>3</sup> / <sub>4</sub>	1 08
1911.				
Jan. 3.....	1 06 <sup>3</sup> / <sub>4</sub>	1 06 <sup>1</sup> / <sub>2</sub>	0 92 <sup>1</sup> / <sub>2</sub>	1 12
" 10.....	1 08 <sup>3</sup> / <sub>4</sub>	1 09	0 95	1 12
" 17.....	1 07 <sup>1</sup> / <sub>2</sub>	1 09	0 95 <sup>1</sup> / <sub>2</sub>	1 12
" 24.....	1 04 <sup>1</sup> / <sub>2</sub>	1 08	0 94	1 13
" 31.....	1 03 <sup>1</sup> / <sub>2</sub>	1 05 <sup>3</sup> / <sub>4</sub>	0 92	1 12
Feb. 7.....	1 00 <sup>1</sup> / <sub>2</sub>	1 01 <sup>1</sup> / <sub>2</sub>	0 92	1 13
" 14.....	0 98 <sup>5</sup> / <sub>8</sub>	0 98 <sup>3</sup> / <sub>4</sub>	0 90 <sup>3</sup> / <sub>4</sub>	1 13
" 21.....	0 96 <sup>5</sup> / <sub>8</sub>	0 99	0 88 <sup>1</sup> / <sub>2</sub>	1 13
" 28.....	0 96	.....	.....	1 12
Mar. 7.....	0 98 <sup>5</sup> / <sub>8</sub>	1 00	0 88 <sup>3</sup> / <sub>4</sub>	1 11
" 14.....	0 98 <sup>3</sup> / <sub>4</sub>	0 99 <sup>1</sup> / <sub>2</sub>	0 90	1 11
" 20.....	0 98 <sup>3</sup> / <sub>4</sub>	1 00 <sup>1</sup> / <sub>2</sub>	0 89 <sup>3</sup> / <sub>4</sub>	.....
" 27.....	0 94 <sup>1</sup> / <sub>2</sub>	0 98 <sup>1</sup> / <sub>2</sub>	0 89 <sup>3</sup> / <sub>4</sub>	.....

NOTE.—Prices for first three markets taken from the *Weekly Northwestern Miller*; Liverpool prices from *Broomhall's Corn Trade News*.

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THE FOLLOWING STATEMENT shows the Wholesale Price of *Malting Barley* at Minneapolis, Buffalo, Milwaukee, Toronto and Winnipeg each week from July 6, 1910, to March 29, 1911. (Quotations from *The Northwestern Miller*, Minneapolis, and *The Grain Growers' Guide*, Winnipeg).

Date.		MINNEAPOLIS.	BUFFALO.	MILWAUKEE.	TORONTO	WINNIPEG.
		Best Malting. per bushel.	Best Malting. per bushel.	No. 2. per bushel.	No. 2. per bushel.	*No. 3. per bushel.
1910.		cts.	cts.	cts.	cts.	cts.
July	6.....	62	64 - 69	66½ - 67	51 - 52	45
"	13.....	68	68 - 70	67 - 72	51 - 52	48½
"	20.....	67	75 - 77	75 - 76	51 - 52	52
"	27.....	65	70 - 74	70 - 76	51 - 52	50
August	3.....	64	.....	65 - 68	51 - 52	No Quotat.
"	10.....	69	65 - 70	67 - 69	51 - 52	"
"	17.....	73	70 - 76	70 - 73	51 - 52	"
"	24.....	69	73 - 77	75 - 76	52 - 54	"
"	31.....	68	72 - 77	72 - 74	52 - 54	"
September	7.....	67	73 - 75	70 - 73½	52 - 54	46½ - 47
"	14.....	70	71 - 73	69 - 72	52 - 54	46
"	21.....	71	74 - 78	71 - 74	48 - 50	46½
"	28.....	68	73 - 78	72 - 74	55 - 56	47
October	5.....	70	72 - 77	70½ - 72½	55 - 56	47
"	12.....	72	76 - 80	70½ - 75	55 - 60	47½
"	19.....	71	78 - 82	73½ - 76	53 - 56	46¾
"	26.....	68½	76 - 80	72 - 75	53 - 56	46¾
November	2.....	71	75 - 76	71 - 75	53 - 56	43
"	9.....	75	77 - 82	72½ - 76½	55 - 60	46
"	16.....	75½	81 - 85	79 - 81½	55 - 60	47
"	23.....	76	81 - 82	77½ - 82	57 - 62	47
"	30.....	75	.....	76 - 80½	56 - 60	.....
December	7.....	83½	82 - 85	76½ - 83	58 - 62	46
"	14.....	80	.....	87½ - 90	58 - 62	46½
"	21.....	80	86 - 90	84 - 88½	58 - 60	47
"	28.....	79	87 - 93	83 - 85½	58 - 60	.....
1911.						
January	4.....	88	93 - 97	80 - 86	58 - 60	47
"	11.....	91	97 - 100	87 - 92	58 - 60	49
"	18.....	90	97 - 100	92 - 100	58 - 60	50
"	25.....	90	94 - 98	91 - 97	58 - 60	49½
February	1.....	87	95 - 100	89½ - 94	60 - 22	49½
"	8.....	84	88 - 95	90 - 92	60 - 62	49½
"	15.....	94	91 - 95	85 - 88	65 - 68	57
"	22.....	.....	93 - 96	92 - 95	65 - 70	57
March	1.....	92	94 - 100	89 - 96	65 - 70	57
"	8.....	90	98 - 104	92½ - 97	65 - 70	No Quotat.
"	15.....	93	96 - 102	97 - ..	63 - 66	"
"	22.....	99	96 - 102	97 - 100½	63 - 66	58
"	29.....	107	111 - 113	100½ - 112	60 - 63	.....

\* Quotations in Store Fort William and Port Arthur.

## SUMMARY.

Based on the above quotations the average price in each market for the period July 6, 1910, to April 12, 1911, was as follows:—

Minneapolis.....	78.6 cents per bushel.
Buffalo.....	85.7 " " "
Milwaukee.....	82.4 " " "
Toronto.....	57.8 " " "
Winnipeg.....	50.0 " " "

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## THE EXPORT BUTTER TRADE.

In the last four fiscal years the exports of butter have been as follows:—

Year ended March 31.	Lbs.	Value.
1908 .....	4,786,954	\$1,068,703
1909 .....	6,326,355	1,521,436
1910 .....	4,613,380	1,010,274
1911 .....	3,142,682	744,288

In August, 1909, owing to a reduction in the United States tariff a new export trade developed in Canada, namely, the shipping of cream to the United States, and by the close of the fiscal year ended March 31, 1910, the total export of this article amounted to 2,362,220 pounds, valued at \$244,442. In the year ended March 31, 1911, the exports totalled 18,238,210 pounds, valued at \$1,714,528.

If we add the value of cream shipped to the United States to the total of butter exported, we get a total export value of \$1,254,716 for 1910, and of \$2,458,816 for 1911.

The following table gives the comparative temperatures of butter for the past six years when delivered to the steamers at Montreal and unloaded at the port of discharge in Great Britain:—

	No. of Pkgs. Tested.	Average Temperature at Montreal.	Average Temperature at Port of Discharge.	Average Increase in Temperature during Voyage.	Average Reduction in Temperature during Voyage.
		Deg.	Deg.	Deg.	Deg.
<b>Montreal to Liverpool—</b>					
Season 1905.....	843	39·3	24·9	.....	14·4
" 1906.....	456	39·2	21·4	.....	17·8
" 1907.....	183	33·7	23·1	.....	10·6
" 1908.....	86	37·5	25·0	.....	12·5
" 1909.....	43	37·6	25·7	.....	11·9
" 1910.....	58	35·7	22·1	.....	13·6
<b>Montreal to London—</b>					
Season 1905.....	859	40·2	26·6	.....	13·6
" 1906.....	527	41·7	20·5	.....	21·2
" 1907.....	217	36·2	15·3	.....	20·9
" 1908.....	153	39·6	18·2	.....	21·4
" 1909.....	87	36·3	22·9	.....	13·4
" 1910.....	46	33·2	17·2	.....	16·0
<b>Montreal to Bristol—</b>					
Season 1905.....	607	36·9	23·9	.....	13·0
" 1906.....	361	36·9	23·9	.....	13·0
" 1907.....	186	35·4	22·0	.....	12·5
" 1908.....	226	35·3	23·5	.....	11·8
" 1909.....	148	31·5	21·3	.....	10·2
" 1910.....	207	29·5	21·8	.....	7·7
<b>Montreal to Glasgow—</b>					
Season 1905.....	403	35·8	28·7	.....	7·1
" 1906.....	374	35·0	24·1	.....	10·9
" 1907.....	183	35·9	19·2	.....	16·7
" 1908.....	75	35·0	23·9	.....	11·1
" 1909.....	79	32·4	22·7	.....	9·7
" 1910.....	35	31·9	23·7	.....	8·2
<b>Montreal to Manchester—</b>					
Season 1905.....	87	34·4	30·4	.....	4·0
" 1906.....	33	41·2	38·8	.....	2·4
" 1907.....	7	40·9	34·0	.....	6·9
" 1908.....	.....	.....	.....	.....	.....
" 1909.....	11	28·8	33·5	4·7	.....
" 1910.....	5	35·2	32·0	.....	3·2



## THE EXPORT CHEESE TRADE.

The following table shows the exports of cheese for the years 1904 to 1911, inclusive.

Year ended March 31.	Lbs.	Value.
1904 .....	242,432,366	\$25,975,998
1905 .....	216,080,606	19,969,363
1906 .....	214,438,960	23,679,419
1907 .....	213,614,643	26,160,856
1908 .....	189,710,463	22,887,237
1909 .....	164,907,139	20,384,666
1910 .....	180,859,886	21,607,692
1911 .....	181,895,724	20,739,507

The reports of the cargo inspectors, which will be found in the next section, show that the quality of Canadian cheese continues to give satisfaction in Great Britain; but there are three complaints which are general, as follows:—

First—The large proportion of Canadian cheese boxes which arrive badly broken caused by the use of (a) mis-fitting boxes, and (b) cheap, badly made boxes the veneer of which is necessarily poor;

Second—Incorrect weights;

Third—Illegible marking of weights on boxes due to the use of lead pencil instead of stencil.

The broken boxes come mostly from sections in Quebec and Ontario where the small, poorly equipped and struggling factories are located. Prince Edward Island boxes are strong and well made and we seldom hear of any serious breakage in shipments from that province; and the same may be said of the boxes from the more advanced districts in Ontario.

Trouble No. 2 may be ascribed either to carelessness in weighing at the factory, to the use of incorrect scales, or to downright fraud on the part of the weigher.

Number 3 although a small matter in itself is a prolific source of trouble to shippers and importers and necessitates a lot of re-weighing to settle disputes caused by errors in calling off the weights.

It seems to me that a good deal might be done to improve conditions under all three heads if it was made part of the duties of the factory instructors in Ontario and Quebec to show makers how to box their cheese properly, to note and report if the factory scales are in good condition, or if they are old, rusty and inaccurate, and to point out to makers the importance of neatly stencilling the weight at the proper place on the box.

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## THE EXPORT FRUIT TRADE.

The following table shows the quantity and value of apples exported from Canada in the years ended March 31, 1904, to 1911, inclusive:—

Year ended March 31.	Barrels.	Value.
		\$
1904.....	1,577,285	4,529,500
1905.....	977,488	2,551,474
1906.....	1,280,789	4,217,704
1907.....	998,618	2,702,623
1908.....	1,629,400	4,823,645
1909.....	1,092,090	2,804,282
1910.....	1,604,177	4,417,926
1911.....	523,653	1,753,884

The large reduction in the exports was caused, of course, by an exceptionally light crop, and by increased shipments to the western provinces. Prices ruled high in Great Britain throughout the season and, as a consequence, a larger percentage of lower grades was shipped from this country. At the close of the season, however, general satisfaction was expressed by receivers regarding the grading and packing of Canadian apples. A feature of the Old Country markets was the relatively large quantity of boxed apples from Virginia and from the far western states of California, Oregon and Washington. Some very fine specimens of Canadian Spies in boxes were sold on the Glasgow market during the late fall and winter, one lot in particular realizing higher prices than a parcel of U. S. Newtown Pippins sold at the same time and place.

## SHIPMENTS FROM HALIFAX AND ST. JOHN, 1910-11.

The total quantity of apples shipped from the port of Halifax during the season 1910-11 was as follows:—

Shipped to—	Barrels.	Half Barrels.	Boxes.
London.....	209,472	418	2,212
Liverpool.....	20,223	29	385
Newfoundland.....	10,948	41	2
Bristol .....	2,365		
South Africa.....	2,181	396	562
West Indies.....	1,324		
Total.....	246,513	884	3,161

## SHIPMENTS FROM ST. JOHN, 1910-11.

Shipped to—	Barrels.	Boxes.
Liverpool.....	1,400	800
London.....	3,200	1,260
Glasgow.....	1,850	900
Manchester.....	1,100	
Total.....	7,550	2,960

## LETTERS FROM IMPORTERS IN GREAT BRITAIN.

The cargo inspectors in Great Britain have transmitted to this office a large number of letters which they received from importers of cheese, butter, fruit, &c. In these communications the writers were good enough to state their views regarding the quality and condition of the Canadian products handled by them during the year and to point out where improvement might be made. We are always glad to get these letters which receive our most careful consideration. In former reports we have published a few of the more representative letters, but this year we are not able to do so owing to lack of space.

## REPORTS OF CARGO INSPECTORS IN GREAT BRITAIN.

Following are the annual reports of the cargo inspectors employed under the direction of this branch at Liverpool, Manchester, Glasgow, Bristol and London.

## REPORT OF THE CHIEF CARGO INSPECTOR FOR GREAT BRITAIN (MR. A. W. GRINDLEY).

LIVERPOOL, March 31, 1911.

I have the honour to submit my report as Chief Cargo Inspector for Great Britain, for the year ended March 31, 1911. Besides my own, you will please find attached annual reports from:—

Mr. Wm. Carter, Cargo Inspector for ports of Liverpool and Manchester.

Mr. Thos. E. Davis, Cargo Inspector for port of London.

Mr. James A. Findlay, Cargo Inspector for port of Glasgow.

Captain H. E. Shallis, Cargo Inspector for port of Bristol.

As the annual reports of the cargo inspectors, and the numerous letters from the principal importers of butter, cheese, fruit, &c., fully describe the various complaints in connection with Canadian food products and indicate where improvement can be made, and as I have practically covered the same ground from year to year, I have thought it well this year to make a report showing the imports of certain specified articles into the ports of London, Liverpool, Manchester, Bristol and Glasgow, and the proportion of these products which were of Canadian origin.

STATEMENT of Imports of certain specified articles from all countries into the ports of London (including Queenborough), Liverpool, Manchester, Bristol and Glasgow in the year 1910 and the proportion received from Canada.

Ports.	Cheese.		Butter. (Including Milk Blended)		Bacon.		Eggs.		Apples (Raw).	
	Cwts.	£	Cwts.	£	Cwts.	£	Great Hundreds.	£	Cwts.	£
London .....	1,270,178	3,577,100	1,504,784	8,019,610	405,241	1,379,038	5,769,423	2,182,464	969,757	720,119
Liverpool.....	413,579	1,141,834	36,329	204,617	1,212,735	4,102,268	460,197	158,674	1,170,256	729,661
Manchester.....	65,329	171,680	143	686	27,203	94,959	91,334	25,677	122,259	77,063
Bristol.....	364,412	981,394	11,244	60,799	55,679	189,024	40,240	14,498	19,958	12,974
Glasgow.....	60,702	173,110	682	3,446	113,086	405,988	2,172	795	484,846	310,949

CONSIGNED FROM CANADA ONLY.

London .....	719,842	2,003,989	2,924	16,041	79,931	277,432	...	...	510,079	303,904
Liverpool.....	393,986	1,085,958	4,070	21,922	170,096	596,241	1,860	1,079	330,087	179,680
Manchester.....	64,244	168,681	143	686	4,419	14,819	...	...	29,225	17,958
Bristol.....	311,731	833,574	9,027	48,882	10,692	39,795	...	...	18,426	12,036
Glasgow .....	55,725	158,230	641	3,206	9,954	35,844	...	...	214,002	133,580

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The work of the above cargo inspectors has been carried on in a most satisfactory manner; complete reports respecting the condition in which each cargo was landed during the past year have been sent to the Chief of the Extension of Markets Division, Ottawa.

A. W. GRINDLEY.

## REPORT OF THE LIVERPOOL AND MANCHESTER CARGO INSPECTOR (MR. W. CARTER).

LIVERPOOL, March 31, 1911.

I herewith beg to submit the following report for the year 1910-11:—

The past season shows a decrease in all agricultural products arriving at this port, with the exception of Canadian bacon and frozen meats. The shipments of cheese have fallen off slightly, butter and eggs were very scarce, and apples showed the lowest arrivals for many years. Against this there was a considerable increase in the quantities of bacon and frozen meats.

## CHEESE.

The condition of cheese boxes shows no improvement on past seasons. There was again a heavy percentage of tied and broken boxes and I can only repeat the chief cause of this is the poor quality of many of the boxes used and not sufficient care taken in packing cheese in perfectly fitting boxes. Cheese have not been quite so carefully handled by the shipping companies this season owing to the fact that they have been working the Montreal service with four steamers each instead of the usual five and this has meant a great hurry and rush in unloading cargo.

There has been very little cause for complaint *re* heated cheese, but there have been some complaints about cheese being cut and pilfered, both here and in Manchester.

## BUTTER.

The few small consignments that arrived here this season were in excellent order and condition except that none of them were sacked, which is a great mistake.

## EGGS.

The three small shipments of eggs arrived in good order. Canadian eggs are very well liked here and we could do with considerably larger quantities.

## FROZEN MEATS.

There has been an increase in the arrivals of frozen meats, and while the contents have been in good order and condition, there has been a lot of trouble with the package, especially the crates. These were altogether too light and frail for the weight of meat packed in them, with the result that 30 to 40 per cent of them required cooping on landing.

## BACON.

Shipments of bacon have increased considerably and all landed here in very good order and condition.

## APPLES.

This has been one of the poorest seasons for Canadian apples for many years. Not only have shipments been very light but a lot of the fruit has been poor. This



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applies particularly to the shipments arriving during the first ten weeks of the season, for the early fruit showed small and very short of colour. There was an improvement in the quality when the winter varieties began to arrive, but even then they were not up to the usual Canadian standard. Owing to the scarcity they realized exceptionally high prices nearly all the season, but had some of the apples that arrived here late in January and early in February been shipped in time for the Christmas market they would have done better still.

An effect of the shortage of Canadian apples has been to introduce to our market large quantities of box apples from Washington, Illinois and other parts of the States. Most of these have been handsome apples exceedingly well packed and graded, and they have realized such good prices that we are almost sure to have even heavier shipments next season. In fact, these apples look like becoming serious rivals of Canadian apples, and Canadian packers must see that their fruit is thoroughly well packed and graded next season.

I am pleased to say there has been very little complaint *re* frozen apples and none against the package, nothing but good barrels having been used. There has been little or no complaint *re* branding of apples this season.

## PEACHES.

The few shipments of peaches landed here in good order, being sound and very well packed, but they showed poor keeping qualities, for many of them turned black after being landed two or three days. In my opinion some of them were too green when packed and were carried at too low a temperature. I think 38 to 40 degrees low enough for tender fruit like peaches. It must also be borne in mind that there is a very limited market here for peaches and that the supply must be carefully regulated.

## POULTRY.

The one small Christmas consignment landed here in excellent order.

## AREA IN WHICH CANADIAN PRODUCE IS DISPOSED OF.

Canadian agricultural produce arriving in Liverpool is distributed nearly all over the United Kingdom, while some goes even as far as Malta. A lot goes as far north as Aberdeen and some as far south as London; Ireland and North Wales also take a lot.

The principal markets are the great mining and manufacturing districts of Lancashire, Yorkshire and the Midlands, and the two distributing railway companies are the London and Northwestern and the Lancashire and Yorkshire. I herewith give the railway rates on provisions and fruit to a few of the main inland towns.

*London and Northwestern Railway Company.*

*From Liverpool to Manchester.*—Bacon, cheese and butter, 9s. 2d. (\$2.23) per ton; pears and apples, 7s. 11d. (\$1.92) per ton; peaches, apricots and cherries, 10s. 10d. (\$2.63) per ton; eggs, 10s. 10d. (\$2.63) per ton.

*From Liverpool to London.*—Bacon, cheese, butter, apples and pears, 25s. (\$6.07) per ton; eggs, 36s. 9d. (\$8.91) per ton; peaches, apricots and cherries, 39s. 4d. (\$9.56) per ton.

*From Liverpool to Newcastle-on-Tyne.*—Bacon and cheese, 19s. 2d. (\$4.66) per ton; butter 20s. 10d. (\$5.06) per ton; eggs, 25s. 4d. (\$6.15) per ton, apples and pears, 18s. 4d. (\$4.46) per ton; peaches, apricots and cherries, 40s. (\$9.73) per ton.

*From Liverpool to Sheffield.*—Bacon, butter and cheese, 18s. 4d. (\$4.46) per ton; eggs, 24s. 4d. (\$5.91) per ton; apples, 17s. 4d. (\$4.21) per ton; apples, 4 ton lots,

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owner's risk, 13s. 4d. (\$3.24) per ton; apples, 4 ton lots, carrier's risk, 14s. (\$3.40) per ton; cheese, 4 ton lots, 15s. 10d. (\$3.85) per ton; pears, 4 ton lots, 14s. (\$3.40) per ton; pears, 2 ton lots, 15s. 9d. (\$3.83) per ton, less than 2 tons, 17s. 4d. (\$4.21) per ton; apricots, peaches and cherries, 24s. 4d. (5.91) per ton.

*From Liverpool to Birmingham.*—Bacon, 20s. (\$4.86) per ton; butter and cheese, 20s. 10d. (\$5.06) per ton; eggs, 25s. 3d. (\$6.13) per ton; apples, 17s. 6d. (\$4.25) per ton; pears, 17s. 6d. (\$4.25) per ton; peaches, apricots and cherries, 25s. 3d. (\$6.13) per ton.

*From Liverpool to Nottingham.*—Bacon, butter and cheese, 21s. 8d. (\$5.26) per ton; eggs, 28s. (\$6.80) per ton; apples, 20s. 11d. (\$5.08) per ton; apples, 4 ton lots, not delivered, 16s. 8d. (\$4.05) per ton; pears, 4 ton lots, 16s. 8d. (\$4.05) per ton, 2 ton lots, 18s. 4d. (\$4.46) per ton; less than 2 tons 20s. 11d. (\$5.08) per ton; peaches, apricots and cherries, 28s. (\$6.80) per ton.

*From Liverpool to Leicester.*—Bacon and butter in 2 ton lots, 22s. 6d. (\$5.46) per ton, less than 2 tons, 23s. 4d. (\$5.67) per ton; cheese in 2 ton lots, 22s. 6d. (\$5.46) per ton, less than 2 tons, 23s. 4d. (\$5.67) per ton; eggs, 30s. 9d. (\$7.47) per ton; apples, 21s. 6d. (\$5.22) per ton; apples, 4 ton lots, not delivered, 18s. 4d. (\$4.46) per ton; pears, 4 ton lots, 18s. 4d. (\$4.46) per ton, less than 4 tons, 21s. 6d. (\$5.22) per ton; peaches, apricots and cherries, 30s. 9d. (\$7.47) per ton.

#### *Lancashire and Yorkshire Railway Company.*

*From Liverpool to Manchester and London* the rates on bacon, butter, cheese, eggs, apples, pears, peaches, apricots and cherries are exactly the same as those quoted by the London and North Western Railway Company.

*From Liverpool to Leeds.*—Bacon and cheese, in 4 ton lots, 15s. 10d. (\$3.85) per ton of 2,240 pounds, in 2 ton lots, 16s. 9d. (\$4.07) per ton; butter, 16s. 9d. (\$4.07) per ton; eggs, 20s. 5d. (\$4.96) per ton; apples and pears, 15s. (\$3.65) per ton; peaches, apricots and cherries, 20s. 5d. (\$4.96) per ton.

*From Liverpool to York.*—Bacon, cheese and butter, 20s. (\$4.86) per ton; eggs, 30s. 9d. (\$7.47) per ton; apples, 21s. (\$5.10) per ton; pears, 21s. (\$5.10) per ton; peaches, apricots and cherries, 30s. 9d. (\$7.47) per ton.

*From Liverpool to Barnsley.*—Bacon, 4 ton lots, 15s. 10d. (\$3.85) per ton, less than 4 tons, 18s. 4d. (\$4.46) per ton; cheese, 15s. 10d. (\$3.85) per ton in 4 ton lots, less than 4 tons, 19s. 3d. (\$4.68) per ton; butter, 4 ton lots, 15s. 10d. (\$3.85) per ton, less than 4 tons, 18s. 4d. (\$4.46) per ton; eggs, 22s. 9d. (\$5.52) per ton; apples and pears, 17s. 1d. (\$4.15) per ton; peaches, apricots and cherries, 22s. 9d. (\$5.52) per ton.

*From Liverpool to Burnley.*—Bacon, 14s. (\$3.40) per ton; cheese, 15s. 9d. (\$3.83) per ton; butter, 15s. 9d. (\$3.83) per ton; eggs, 18s. 4d. (\$4.46) per ton; apples and pears, 11s. 9d. (\$2.85) per ton; peaches, apricots and cherries, 18s. 4d. (\$4.46) per ton.

*From Liverpool to Halifax.*—Bacon and butter, 15s. 9d. (\$3.83) per ton; cheese 15s. 10d. (\$3.85) per ton; eggs, 19s. 3d. (\$4.68) per ton; apples and pears, 14s. 2d. (\$3.44) per ton; peaches, apricots and cherries, 19s. 3d. (\$4.68) per ton.

In addition to the railway rates there is a charge of 1s. 8d. (40 cents) per ton on provisions and 1s. 9d. (42 cents) per ton on fruit for cartage from the quay to the railway station on all goods sold ex quay.

There is a lot of both provisions and fruit that pass through this port on what are known as 'through rates,' which include all railway, steamship, cartage and other charges from any given place in Canada to any place in Great Britain.

W. CARTER.

SESSIONAL PAPER No. 15a

## REPORT OF THE CARGO INSPECTOR FOR GLASGOW (MR. JAS. A. FINDLAY).

GLASGOW, March 31, 1911.

## CHEESE.

Importations of Canadian cheese to Glasgow for the season of 1910 show a falling off of quite 35,000 boxes compared with 1909. This larger reduction was caused by a larger than normal make of Scotch cheese and a very low consumption of cheese throughout the summer and early autumn, notwithstanding the relatively low retail price of cheese compared with other foods (fresh meats, bacon and eggs maintaining high prices throughout). Another adverse influence was a strike of boilermakers in the various Clyde engineering works which threw a large body of men idle for a few months. Importers had therefore a most unsatisfactory time carrying increasing stocks from week to week, as prices paid for Canadians were too high to sell profitably here in competition with low prices ruling for Scotch cheese, and many merchants had ultimately to sell at a loss before the important rise in prices took place towards the end of the year.

The Scotch make, while a large one in quantity, was unsatisfactory in quality, being much more irregular than usual, discolouration being a pronounced feature and hardness of texture noticeable. Merchants here affirm that public taste is changing and that a cheese of softer consistency is being demanded by the consumer. The prevailing dissatisfaction with the season's make resulted in a meeting of merchants, cheesemakers and others interested in the industry, being held in Glasgow where types of desirable and undesirable cheese were on view to demonstrate to makers what was required by the trade. It is worthy of note that amongst types of cheese meeting the markets' demands, there was a sample of Canadian produce.

*Quality and condition.*—In most respects the condition on arrival was satisfactory, no heated cheese being in evidence, and only in a few cases was slight grease showing on the skins of a few parcels shipped during the summer months. Importers generally offer favourable comment on the season's arrivals as regards quality and condition, and from all accounts the shipping of green cheese this year has diminished in quantity, and it is to be hoped that the improvement shown this year may soon result in the total disappearance of this practice. On all hands Canadian cheese are commended for their uniformity as compared with Scotch manufacture, as, while choicest grades of the latter may surpass Canadians for flavour, the general make is more irregular and this year they have been more so than usual. Canadian cheeses rarely show discolouration, whatever other defects may appear, but some lots showed a tendency to be brittle and over-acid, and others to be too tight, some suspiciously so. I hear of some June and July cheeses which arrived a trifle firm and which at the moment of writing have not mellowed but are harder than ever; such a condition gives rise to grave suspicion. A complaint pointed out last year has again been observable this, viz., cheese arriving damp on the ends and the rind soft.

*The weight question.*—This is still a depressing feature of the Canadian cheese trade, in respect that the accuracy of marked weights cannot be relied on, and importers find it essential to test thoroughly the weights of each shipment for shortage, particularly during the summer months. It is a serious matter to importers who have contracted to take a factory's weekly output to find the cheese arrive showing from one-half to two and three pounds short weight per box, not to speak of odd boxes turning up five to ten pounds lighter than the marked weight, which viewed in the most favourable light can only be considered gross carelessness.

*Boxes.*—The condition of the boxes is another matter requiring attention as, with the exception of a limited number of brands, there is great room for improvement.



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This year the percentage of tied and broken boxes during the Montreal season showed an increase, while the condition of arrivals via United States ports was materially worse. The usual primary causes are still apparent, viz., irregular boxes—too long and too wide for the cheese—poor wood, boxes slimly put together at ends, and large sized cheese, weighing from 90 to 100 pounds, which are too heavy for the quality of the boxes. I generally find among parcels of this weight an unusually heavy percentage of damage, frequently 30 to 40 per cent, but this year up to and over 50 per cent has been a feature in some factories, and it is manifestly clear that stronger packages are necessary and that stricter attention should be paid to the fit of the boxes. In passing, I may say that abnormal-sized cheese of 90 pounds and upwards are universally condemned here. One correspondent, in referring to the high percentage of breakages, advocates the possibility of making the boxes out of the new three-ply wood presently coming into general use which, he understands, can be obtained at very small cost.

The branding of cheese boxes still displays carelessness; odd boxes continue to arrive lacking shipping brand, factory or weight marks; the pencilling, instead of the stencilling of weights, is still largely persisted in.

#### BUTTER.

The shipments of Canadian butter are yearly decreasing and this year only 1,250 boxes with 13 addressed packages comprised the total arrivals at Glasgow as compared with 3,469 boxes last year. The price of Canadian produce was too high for profitable importation. Of the 1,250 boxes, 585 were sacked and 671 unsacked; all shipments were carried in refrigerators, the bulk at a temperature round 20 degrees or lower; very prompt delivery was taken, 910 boxes being lifted the day of discharge, 96 the day after, 226 the second day and 18 boxes the third day.

*Condition.*—The condition on arrival was satisfactory, as likewise the quality, some parcels being very choice in body, texture and flavour; others, however, were decidedly weaker in these respects. Buyers here favour pasteurization; the best New Zealand and Australian is made from pasteurized cream and the former this season has been of outstanding quality. The boxes were carefully handled and discharged in good order.

Canada's contribution to the butter market of Glasgow is now so small and it is so long out of the market that it attracts less attention than formerly, and at the present rate of annual decrease will soon, like the egg trade, have disappeared.

#### BACONS AND MEATS.

Hog products show a welcome increase over last year's importations from Canada. This year, 3,259 boxes of bacon and 50 barrels of pork with 65 tierces of lard compound were received, as compared with 1,260 boxes and 121 barrels last year. The boxes and contents were discharged in good condition and very satisfactory prices ruled throughout the year. The trade would welcome increased shipments on this year's showing.

#### CANNED MEATS.

This trade from Canada consists of importations of jellied veal only, of which 387 cases arrived compared with 230 last year; the quality is good and gives satisfaction to purchasers.

#### FROZEN MEATS, ETC.

Fresh meat importations compare unfavourably in quantity with season 1909, there being only 10,753 boxes, 160 pieces in sacking and 68 tierces pickled beef this year as against 17,521 boxes and 100 bags last year. The fresh meats were all carried

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in refrigerators and landed in good condition generally, but some boxes in a few shipments were of poor quality and of doubtful soundness. Out of two shipments during end of May and beginning of June 31 boxes were condemned as unsound by the Food Inspector, and subsequently a shipment during August arrived showing the contents of a quantity of the boxes mouldy and of doubtful soundness but not sufficiently so to warrant the Inspector to condemn them. The system of inspection of boneless meats instituted two years ago is strictly enforced.

## CANNED APPLES.

A slight shrinkage of over 3,000 cases of canned apples show on the season's importations to date, there being 31,939 cases apples and 150 cases pears as compared with last year's total of 35,046 cases apples. The various shipments have come to hand in satisfactory shape, little damage to cases appearing, and contents evidently being free from damage or leakage of tins. The percentage of blown tins continued at about the satisfactory average of three to five per cent. The pack of the New York firm, Curtice Bros., still leads Canadians in price and popularity here, and buyers affirm that the former comprise better selected and higher quality fruit. The weight of fruit is also slightly in excess of the Canadian pack, with less liquid.

## APPLES.

The Canadian apple trade with Glasgow this season has been of an unsatisfactory nature, the importations being the smallest on record for a considerable number of years; the quality also was disappointing. At moment of writing only 81,000 barrels and 15,330 cases have arrived, as compared with last year's totals of 312,165 barrels and 31,843 boxes from Ontario and 38,604 barrels and 189 boxes from Nova Scotia. There were no direct shipments this season from Nova Scotia, though a few hundreds arrived in Glasgow via London by rail and coasting steamer. The shortage from Canada was partly met by increased arrivals from other sources but not in sufficient quantities to supply the demand, consequently prices ruled higher on the average for all varieties than during the 1909 season. The shortage mentioned resulted in larger importations of barrel stock from various districts of United States of America, Virginia, Maine and western states. The Virginia fruit was of excellent quality; Maine Baldwins very fair but western state apples poor in size and quality. Larger quantities of box fruit from California, Oregon, Washington, &c., arrived; the Oregon, Newton and Spitz have been of excellent quality and pack and received universal praise.

*'Condition.*—The condition of Canadians on arrival throughout the season was generally very fair; a few parcels among the early summer fruit arrived over-ripe and towards the end a small percentage indicated frost effects. With these exceptions, arrivals were in sound order as a rule. The quality, as stated, was unsatisfactory; the high prices conduced to shipment of somewhat inferior grade and generally the pack was irregular, very few parcels of choice fruit arriving. Good winter stock was very scarce; Baldwins generally lacked colour. Spys throughout lacked colour and keeping quality, and were also scarce. The feature of the Ontario shipments was the pack of the Norfolk fruit growers, several of their shipments being of choice grade and quality. The Newcastle fruit growers also placed one or two good parcels on this market; these with a limited few smaller shippers forwarded reliable fruit.

*'Boxes.*—The box apple trade in Glasgow is one of increasing dimensions, and this year's trade indicates that Glasgow offers an outlet for a large proportion of high class boxed fruit at all periods of the recognized apple season; boxes containing apples characterized by uniformity of size and colour, with skins free from blemish and clean for the variety, fairly bold in size,—but not exceedingly so nor irregular



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in shape so as to be deemed coarse—will return to shippers a much enhanced price over the barrel equivalent. The barrel, I presume, will always retain its place as the popular commercial package, but very large quantities of boxes were shipped here from United States districts this season, influenced, no doubt, by the scarcity of the Ontario and Nova Scotia barrel supplies. Buyers are becoming increasingly discriminating regarding value of appearance and if Ontario orchardists are going to capture and retain a portion of this high class box trade, decidedly more scientific care of orchards and more careful selection of fruit in packing is essential. I am satisfied that an increased quantity of boxed Ontario apples can be absorbed here, and it lies with the Ontario packers to cater for the Scotch consumer's eye as well as his palate. The popularity of the King, Spy and Baldwin on this market is admitted on all hands and, granting the excellence of flavour of these varieties, buyers are influenced by uniformity of size, evenness of colour and cleanness of skin. The most popular size of Oregon Newton Pippins here is from 96 to 112 apples per 40 pound case, the latter size preferred.

## BRITISH COLUMBIA FRUIT.

There were direct shipments of 1,653 boxes of apples this season from British Columbia. These arrived in good condition and participated in the high prices ruling. One parcel from Kelowna district, composed of Jonathan, Spitz, Newton Pippin, McIntosh Red and Grimes Golden, was of excellent quality and condition.

## PEARS.

The importations of Canadian pears to Glasgow indicate a growing demand, as 7,885 cases and half cases and 69 barrels were imported this year as compared with about 5,000 packages last year. Unless in seasons of very plentiful crops in France and southern England (whence a large proportion of the Glasgow supply comes) increased quantities of pears could be absorbed from Canada. Of the total receipts all, with the exception of 225 packages, were carried in refrigerator round 35 to 38 degrees, and all arrived in good condition, except a few barrels of Anjou which were decaying. The half case is the favourite package for all varieties except Keiffers, which may safely be packed in the 40 pound box or even in barrels. Very large quantities of Keiffers are marketed here from the United States, the bulk of which are sold to north and northeast coast of England buyers who attend the Glasgow market; and indications point to an increased demand for pears, both of Keiffer and more choice varieties, in coming seasons.

## GLASGOW A DISTRIBUTING CENTRE.

It may be of interest to learn that Glasgow is the chief distributing centre for Scotland in bacons (Canadian and United States of America), apples and pears (Canadian and U. S. A.). Canadian bacon imports with the exception of about one per cent are handled by Glasgow houses. Large quantities of U. S. A. imports on the other hand, are consigned on a through bill of lading to northeast coast of England firms, cheap rates being offered by railway companies to Newcastle and district to compete with Liverpool. Glasgow is the great distributing centre for apples (Canadian and U. S. A.); quite 95 per cent of the total imports of Canadian apples are sold in the fruit bazaar and central commercial saleroom; barely five per cent of the arrivals are consigned to Aberdeen, Dundee, Edinburgh and Newcastle (England); the U. S. A. shipments of apples are practically all consigned to Glasgow houses. During the apple season buyers attend the Glasgow sales from Aberdeen, Perth, Dundee, Edinburgh, Leith, Dumfries, Ayr and practically all minor distributing centres

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of Scotland, as well as large buyers from the north and northeast coast of England. The English firms purchase a very large portion of the total imports of apples and the major portion of Keiffer pears.

The cheese importations to Glasgow, with the exception of between 5,000 to 10,000 boxes consigned to Dundee and Leith firms, are all handled by Glasgow firms. Aberdeen merchants imported direct from Montreal by ss. *Bellona* 985 boxes cheese. Glasgow is the distributing centre in cheese for all the west of Scotland, and Glasgow firms cater to the north and east coast also. No United States cheese were imported into Glasgow this year.

## THE PORT OF LEITH.

The port of Leith, on the east coast of Scotland, had thirteen direct shipments from Montreal, per Thomson line, arriving every three or four weeks from May to December 31, 1910. These thirteen steamers brought a total quantity of 44,028 boxes of cheese; a large quantity of this total was on behalf of one or two Glasgow firms for their east coast of Scotland trade and a small portion for Dundee and Aberdeen merchants.

## FREIGHT RATES.

The ocean freight rates from Montreal to Glasgow on cheese, butter, &c., is as follows:—Cheese, \$6.38 per ton; butter, \$11.31 per ton in refrigerator; apples, 66 cents per barrel—refrigerator 36 cents extra; pears, \$6.07 per 40 cubic feet.

In addition to the ocean rate mentioned the shipping companies quote the following tariff to points named:—

*Aberdeen* (by rail).—Apples, \$4.94 per ton; cheese, \$5.14 per ton; butter, \$5.14 per ton; bacon, \$4.40 per ton in four ton lots.

*Dundee*.—Apples, \$3.93 per ton; cheese, \$4.96 per ton; butter, \$4.96 per ton; bacon, \$3.99 per ton in four ton lots.

*Leith and Edinburgh* (by rail).—Apples, \$3.42 per ton; cheese, \$3.44 per ton; butter, \$3.44 per ton; bacon, \$3.28 per ton in four ton lots.

*Newcastle (England)*.—Apples \$4.33 per ton; cheese, \$4.36 per ton; butter, \$4.36 per ton; bacon, \$4.19 per ton in four ton lots.

These charges include transshipment expenses amounting to from 5s. to 6s., composed of harbour dues, master portorage and cartage from dock to connecting steamer or railway.

I learn that Aberdeen and Dundee merchants import the majority of their cheese on a through bill of lading from Montreal via London, and transhipped by coasting steamer to Aberdeen and Dundee; the cost by this route to Dundee is cheaper than via Glasgow, amounting to only 35s. per ton. The merchants of Dundee and Aberdeen, however, inform me that the percentage of broken boxes by London is excessively high on account of the extra handling. The through rate from Brockville to Aberdeen via London is 51s. 2d. per ton.

Following is a summary of direct imports to Glasgow, Aberdeen and Leith for the season 1910-11.

*Glasgow*.—Cheese, 78,850 boxes and 759 cases containing jars; butter, 13 addressed pkgs. and 1,250 boxes; bacon, 3,345 boxes; pork, 50 barrels; lard compound, 65 tierces; frozen meat, 10,753 boxes and 160 pieces in sacks; pickled beef, 68 tierces; canned meats, 387 cases jellied veal; canned apples, 31,939 cases; canned pears, 150 cases; canned fruit and sweet corn, 80 cases; apples, 81,433 barrels and 15,330 boxes; pears, 7,885 cases and half cases and 69 barrels; peaches, 285 cases.

*Aberdeen*.—Apples, 2,315 barrels; cheese, 985 boxes.

*Leith*.—Apples, 104 barrels; cheese, 44,028 boxes.

JAS. A. FINDLAY.

## REPORT OF THE BRISTOL CARGO INSPECTOR (CAPT. H. E. SHALLIS).

BRISTOL, March 31, 1911.

I herewith submit particulars of the work for the port of Bristol for the past year, dating from March 1, 1910, to February 28, 1911, giving comparisons with the previous year of same dates.

## CHEESE.

We have received 435,000 boxes of cheese, a slight increase of 4,000 boxes over last year, though during the Montreal season the imports showed an increase of over 16,000 boxes. Taking the year round the quality has been most satisfactory, especially the fall made cheese. The chief cause of complaint has been the difference in weight of the cheese as compared with that marked on the box, after due allowance is made for shrinkage. The condition of the boxes does not improve, especially those from Quebec province; sometimes a fairly good lot comes along, but at no time do they compare with the western boxes. With regard to heated cheese we have been very free this past season. Only part of one shipment suffered rather heavily; these were all waxed cheese and arrived here in the hot weather at the time of the dock strike, consequently were delayed in ship. There is still a quantity of boxes received with no shipping marks which often causes trouble and dispute between shipping company and merchant.

## BUTTER.

Although our imports are far ahead of the other ports still there is a falling off of over 6,000 packages, our totals amounting to 18,923 boxes and tubs. The quality has been very good. All the shipments came forward in refrigerator chambers and on being landed were loaded direct into iced vans and forwarded to destination.

## BACON.

Our imports of bacon amounted to 1,830 boxes—an increase of over 700. The boxes were good and strong and the condition of the meat on arrival excellent; the food inspectors here speak most highly of it, and merchants would welcome a bigger trade in Canadian bacon.

## EGGS.

This trade seems entirely lost, all our imports being now from Ireland and the continent.

## PEACHES AND PEARS.

During September we received a trial shipment of 101 boxes of peaches sent by the department, part being sent forward to Birmingham and Cardiff, the balance sold here; they landed in good condition but quickly ripened; however, they realized an average price of 4s. 3d. per box. As a trial shipment it was very satisfactory and from opinions expressed by some of the leading fruit merchants they hope it will lead to a big trade. A small shipment arrived later from the Biggs Fruit Company, but these were scattered over various towns. We also received 139 barrels and 600 cases pears—brands Keiffer, Beurre D'Anjou and Gloria Mundi. These were well packed and, with one or two exceptions in the boxes which showed signs of frost, they all landed in excellent condition.

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## APPLES.

The present season shows a falling off of over 2,000 barrels owing to the short crop, our arrivals being a little over 17,000 barrels, including 175 from the United States. Early shipments came along in good condition but instances occurred where the grading was somewhat imperfect. Later shipments proved not so good, the fruit having been more or less frosted, and in the interior of the barrels the fruit was of poorer quality than on the top. With the advent of the Royal Line from Halifax we have had a quantity of apples from Nova Scotia and these have turned out very satisfactory, Baldwins and Ben Davis being the chief brands. This year we have had fewer varieties than in previous years. With one or two exceptions, the total quantity imported was sent through to Cardiff, which is becoming a big distributing centre for the apple trade. The barrels from Ontario were good, sound and well made; those from Nova Scotia were rough in appearance and not so strongly made.

## SHIPPING.

In the past year we have had an increased number of sailings owing to the two steamers *Royal Edward* and *Royal George* of the Canadian Northern Steamship Company entering this service. These two ships, although not large freight carriers, have turned out their cargoes in very good condition. They each have a refrigerated space of 10,900 cubic feet and, although not fitted with any 'cooled air' system, have large fans in each of the holds. These steamers maintain a speed of 18 to 19 knots, and so are especially suitable for the carrying of perishable goods which have to be placed on the market as quickly as possible. The other two lines, viz.: Dominion and Canadian Pacific Railway, conjointly during the summer kept up a weekly service with five boats instead of six as in the previous years. All the ships were fitted with both refrigerators and cooled air chambers and their cargoes have always turned out well. On arrival the freight was carefully handled and given quick despatch to the various destinations.

## FREIGHT RATES.

The railway freight rates from the port of Bristol to the points named, on goods carried on through bills of lading inclusive of transshipment and delivery charges, are as follows:—

*To Bath.*—Bacon, hams and cheese, 8s. 5d. (\$2.04) per ton; butter, 10s. (\$2.43) per ton; eggs, 12s. 4d. (\$3) per ton; apples, 9s. 11d. (\$2.41) per ton.

*To Birmingham.*—Bacon, hams and cheese, 19s. 3d. (\$4.68) per ton; butter, 20s. 10d. (\$5.06) per ton; eggs, 26s. 4d. (\$6.40) per ton; apples in 2 ton lots, 13s. 9d. (\$3.34) per ton, less than 2 tons 16s. 11d. (\$4.11) per ton.

*To Cardiff.*—Bacon, hams, cheese, in 3 ton lots, 8s. 5d. (\$2.04) per ton, 2 ton lots, 8s. 9d. (\$2.12) per ton; butter, 3 ton lots, 10s. (\$2.43) per ton, 2 ton lots, 10s. 4d. (\$2.51) per ton; eggs, 3 ton lots, 9s. 5d. (\$2.29) per ton, 2 ton lots, 9s. 9d. (\$2.37) per ton; apples, 4 ton lots, 7s. 1d. (\$1.72) per ton, less lots 10s. 10d. (\$2.63) per ton.

*To Gloucester.*—Bacon and hams, 11s. 9d. (\$2.85) per ton; cheese, 12s. 3d. (\$2.98) per ton; butter, 13s. 4d. (\$3.24) per ton; apples, 10s. 10d. (\$2.63) per ton; eggs, 16s. 9d. (\$4.07) per ton.

*To London.*—Bacon and hams in ten ton lots, 19s. 3d. (\$4.68) per ton, 1 ton lot, 25s. 1d., (\$6.09) per ton; cheese, 10 ton lots, 19s. 3d. (\$4.68) per ton, 4 ton lots, 24s. 3d., (\$5.89) per ton, 1 ton lot, 25s. 1d. (\$6.09) per ton; butter, 10 ton lots, 20s. 10d. (\$5.06) per ton, 4 ton lots, 25s. 10d. (\$6.27) per ton, 1 ton lot, 26s. 8d. (\$6.48) per ton; eggs,



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5 ton lots, 27s. 9d. (\$5.74) per ton, less than 5 tons, 33s. 7d. (\$8.16) per ton; apples, 3 ton lots, 17s. 11d. (\$4.36) per ton, 2 ton lots, 18s. 9d. (\$4.56) per ton, 1 ton lots, 19s. 7d. (\$4.76) per ton.

*To Newport.*—Bacon, hams and cheese, 3 ton lots, 8s. 5d. (\$2.01) per ton, 2 ton lots, 8s. 9d. (\$2.12) per ton, 1 ton lots 9s. 1d. (\$2.21) per ton; butter, 3 ton lots, 10s. (\$2.43) per ton, 2 ton lots, 10s. 4d. (\$2.51) per ton, 1 ton lot, 10s. 8d. (\$2.59) per ton; eggs, 3 ton lots, 9s. 5d. (\$2.29) per ton, 2 ton lots, 9s. 9d. (\$2.37) per ton, 1 ton lot, 10s. 1d. (\$2.45) per ton; apples, 4 ton lots, 6s. 7d. (\$1.60) per ton, 2 ton lots, 7s. 1d. (\$1.72) per ton.

*To Northampton.*—Bacon, hams and cheese, 28s. (\$6.80) per ton; butter, 29s. 7d. (\$7.19) per ton; eggs, 38s. 7d. (\$9.36) per ton; apples, 26s. 7d. (\$6.46) per ton.

*To Oxford.*—Bacon, hams and cheese, 21s. (\$5.10) per ton; butter, 22s. 7d. (\$5.48) per ton; eggs, 28s. (\$6.80) per ton; apples, 19s. 7d. (\$4.76) per ton.

*To Southampton.*—Bacon, hams and cheese, 4 ton lots, 13s. 5d. (\$3.26) per ton, 2 ton lots, 14s. 3d. (\$3.46) per ton, 1 ton lot 15s. 1d. (\$3.67) per ton; butter, 4 ton lots, 15s. (\$3.65) per ton, 2 ton lots, 15s. 10d. (\$3.85) per ton, 1 ton lot, 16s. 8d. (\$4.05) per ton; eggs, 26s. 11d. (\$6.54) per ton; apples, 4 ton lots, 14s. 7d. (\$3.54) per ton.

*To Swansea.*—Bacon, hams and cheese, 11s. 9d. (\$2.85) per ton; butter, 13s. 4d. (\$3.24) per ton; eggs, 22s. (\$5.34) per ton; apples, 12s. 7d. (\$3.06) per ton.

## ACKNOWLEDGMENTS.

As in previous years I am constantly in touch with the dock steamship officials and find that at all times they are ready to render any service in the interest of the Canadian trade, and I am much indebted to them for the same.

H. E. SHALLIS.

## REPORT OF THE LONDON CARGO INSPECTOR (MR. THOS. E. DAVIS).

LONDON, March '31, 1911.

## GENERAL.

Throughout the past season I have been in personal attendance at time of arrival of each steamer entering this port from the Dominion of Canada and have kept a close watch upon the out-turn of cargoes from the steamers of the Thomson, Canadian Pacific Railway, Allan, Furness and Furness-Leyland lines. I have also followed up the delivery of the goods to the various markets or warehouses, and after final disposal of each cargo I have made out a report applying to each separate vessel.

## CHEESE, BUTTER, BACON AND EGGS.

Cheese from Montreal has been landed this season in good condition and has given general satisfaction. At the same time attention must again be drawn to the breakage of boxes, the cases being ill fitted to the size and shape of the cheese. It is a very difficult matter to replace these boxes in London, and a considerable loss arises on the sale of the cheese. Surely it is possible for the men at the factories to exercise a little more forethought in such matters, bearing in mind the number of handlings and transshipments the cheese has to undergo.

*Bacon.*—Shipments have turned out in satisfactory order and condition.

*Butter.*—There has been a distinct falling off in the quantities sent forward.

*Eggs.*—Not a single package has arrived this season.



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## APPLES.

The Ontarian crop shipped to London has been lighter than usual and the fruit has in some quarters been spoken of as lacking in quality. If, however, the price realized is any criterion of the quality, it is hardly possible to credit these reports, it being evident that if there was anything wrong with the fruit the retailers would never have paid such high figures as we have witnessed this season. Appearance is almost everything in the higher grades of Ontario fruit and it is evident that the quality must have been pretty well up to the standard when such a price as 25s. per barrel has been recorded. In passing, I think it only right to express the view that some of the growers would be better advised in placing their consignments only in the hands of salesmen of good standing and established repute. There is a tendency amongst some of the growers to be led away by specious advertisements put forward by parties who have little experience in the trade and are only concerned to get hold of the fruit with the sole object of making as much as possible for themselves and with little or no regard to the sender's interests.

Nova Scotian apples have also realized high prices throughout the season, and, whilst to a large extent this is doubtless due to the fact that the crop has been light and the demand keen, it must also be said that the condition and quality have in the main been well up to standard. This brings me to the subject of my last year's report, and the current rumours that next season will in all likelihood produce a very large crop of fruit in Nova Scotia, and possibly in other quarters also. If this is realized, growers cannot expect a return on their outlay which can compare with the season just closing.

Whenever there is a bumper crop, it would be most advisable that steps should be taken to develop fresh markets at outlying ports and towns conveniently accessible from London. This would be far better than leaving such work to the London salesmen, which simply means that a number of London local charges are incurred on the fruit quite unnecessarily and the extra handling to and from market is also detrimental. I am emphasizing this point once again as it is a matter which should be of great interest to the growers, and it is no use being wise after the event. The system can be worked by means of through bills of lading.

## PORT AUTHORITY RATES.

Since my last report the various London dock companies have been consolidated under one control, entitled the Port of London Authority, established by Act of Parliament. This authority acting on a provisional order, has published a list of port rates of goods, a selection of which you will find attached hereto.

## ACKNOWLEDGMENTS.

For the courtesy and assistance with which I have always been favoured, I have once again to record my sincere acknowledgment to Dominion officials, shipping companies, merchants and brokers, to all of whom I am indebted in many ways.

THOMAS E. DAVIS.

## BUTTER TRANSPORTATION

The special iced car service for the transportation of butter to Montreal, which is arranged for by this department, was in operation as usual from May 16 to October 15. As customary this Division had three travelling inspectors and three at the Montreal terminals testing the temperatures of butter and supervising the service generally.

Reports received from our inspectors in the early part of the season stated that a considerable number of soiled and dirty packages were being loaded into the iced cars at country shipping points, due to the fact that the butter was either hauled to the station in dirty wagons or that no precaution was taken to protect the packages from rain and mud during the trip. As it is important that the package containing such a delicate article of food as butter should present a clean and inviting appearance, butter-makers should take pains to see that the packages in every shipment are loaded into the cars in a clean condition. During the haul from the creamery to the station the packages should rest on clean straw and should be protected by a cover that will keep out rain and mud. The use of a sack for each package is a great advantage. These can be returned to the shipper and used several times. It is hardly fair to insist on the railway companies providing clean refrigerator cars for the butter traffic if the packages are delivered to them in a soiled and dirty state.

In May and the early part of June the weather was very cool and this fact apparently caused butter makers to neglect their cold storage rooms, as our inspectors' reports showed that butter had been loaded as warm as 64 degrees. There is no reason why creamery butter should test higher than 45 degrees when loaded into cars provided the creamery cold storage is properly looked after and the butter is not unduly exposed at the railway station.

The total number of cars with butter inspected at Montreal during the season was 967, as follows:—

At G. T. R. terminals—471 cars.

At C. P. R. terminals—399 cars.

At C. N. Q. R. terminals—97 cars.

These carried a total of 273,034 packages of butter weighing over eighteen million pounds. The average temperature of the butter when unloaded from the cars at Montreal was about 53 degrees, while the average quantity of ice in the bunkers per car was approximately 1,200 pounds.

## TEMPERATURES OF QUEBEC BUTTER, 1905-10.

The following statement shows the average temperature of creamery butter at shipping points in the province of Quebec for the six year period from 1905 to 1910, inclusive:—

## SESSIONAL PAPER No. 15a

TABLE No. 1.—Average Temperatures of Creamery Butter at Shipping Points in the Province of Quebec for Six Years, 1905 to 1910. (Inspector, J. N. Lemieux).

Name of Proprietor or Manager.	Post Office Address.	YEARS.					
		1910	1909	1908	1907	1906	1905
		Deg.	Deg.	Deg.	Deg.	Deg.	Deg.
Ant. Genvin	St. Raymond	39.2					
J. A. McCallum	Danville	41.0	40.2	44.9	53.8	40.1	41.2
C. E. Lamarche & Cie.	St. Esprit	42.2	41.0	57.4			
George Bennett (Hazel Bank)	New Glasgow	42.5	46.2	44.5	47.5		
" " (Elm Bank)	"	43.0	52.0	47.0	48.3		
" " (Oak Bank)	"	43.5		51.7	48.5		
Pierre Proulx	St. Agathe de Lotbiniere	44.1	42.1	43.1	42.8		
I. Dion	La Chapelle	44.3	52.4	46.3	52.5		
Eugene Roy	St. Clement	44.7	46.4	50.9	50.3		
E. Dumas	St. Epiphane	44.7	45.7	45.4	47.7	55.3	
Louis Levesque	Cacouna	45.0	48.5	48.2			
Pierre Goulet	St. Isidore	45.4					
A. Breton	St. Epiphane	45.6	46.8	47.3	52.0	52.0	
Forget & Parthenais	St. Anne des Plaines	46.0	44.4	47.0	50.0	49.0	
Leon Theriault	Isle Verte	46.1	46.3	46.7	43.4	42.2	
Joseph Helie	St. Wenceslas	46.5	45.0	53.5	45.5		
Eug. Godbout	St. Eloi	46.7	49.6	51.6	50.0		
Charles Harvey	Anqui	46.8	50.5		50.0		
W. St. Georges	St. Jean de Matha	47.0	49.8				
W. Gareau	St. Jerome	47.3	53.3	46.9	50.5	50.0	
Cyril Godbout (C. G.)	St. Eloi	47.5	52.7	53.1			
Geo. Bennett (Green Bank)	New Glasgow	47.5	57.0	60.0	57.0		
F. X. Senay	Brodeur	47.6	50.4	53.2	50.0	52.0	
P. E. Moore	St. Bernard	47.6					
E. Mercier	St. Charles Bellechasse	47.7	47.6	50.8	55.0		
J. A. Bourbonnais	Pont Chateau	48.0	51.8				
Desire Milot	Yamachiche	48.3		63.5			
J. L. Côté	St. Guillaume	48.4	41.0				50.3
Philibert Gauthier	St. Lac de Matane	48.4	51.1	49.0	44.0		
C. Guitard	St. Joseph du Lac	48.5		47.4	58.0	54.6	
J. A. Saindon	St. Arsene	48.5	50.7	47.5	52.0	50.3	
W. Girard	Acton Vale	48.5	52.4	57.0	59.0		
E. R. Pepin	St. Basile de Portneuf	49.6	49.2	51.5	54.4	55.8	56.0
J. Edgar Larose	St. Lin (Laurentides)	49.0	49.0		51.3		
Forget & Parthenais (F. P. 2)	St. Anne des Plaines	49.0	46.8			45.0	
O. Robérge	St. Norbert	49.0	54.2			61.3	
Damien Comtois	Cap St. Gabriel	49.0	51.5	43.7	52.5		
Bourassa & Frere	Yamachiche	49.0	60.5	68.5			
Aug. Pelletier	St. Roch des Aulnaies	49.0	54.8	58.5	60.0		
Louis Roy	St. Jacques Nord	49.0	49.0	55.0			
M. McDuff	Upton	49.0	54.4	57.6	54.0		
Cassen Bros	Kingsey	49.1	46.3	52.5	43.6	44.1	
J. H. Vadnais	L'Ange Gardien	49.3	53.7	57.7	50.0	48.2	50.1
F. Ravenelle	L'Ange Gardien	49.3	49.8	55.7	56.0	52.8	53.4
L. P. Marchand	St. Anne de la Perade	49.3	47.9	53.3			
A. Champagne	St. Emelie de L'Energie	49.5	54.0				
O. Beaudry	St. Emelie de L'Energie	49.5	49.8				
W. Rioux	Cedar Hall	49.6	52.1				
A. A. Nicolle (N)	St. Simon (Rimouski)	49.6	48.1	50.6	48.8		
Rev. M. Noel	St. Cyprien	49.6	54.3	53.6	59.0		
Fred Thibault	L'Islet Station	49.7	53.0	54.5	54.0		
Win. Parent	St. Guillaume	49.8	44.5				
A. Chagnon	St. Dominique	50.0	58.5	63.0			
C. A. Laurier	Lachenaie	50.0	50.0	54.5			
Nap. Paquin	St. Jerome	50.0					
J. Blanchet	St. Anne La Pocatiere	50.0	56.6	59.5			
L. A. Boucher	L'Islet	50.0	51.1	51.0	54.5		
Cyril Godbout (H. B. R.)	St. Eloi	50.0	50.1	51.0	47.3		
Jos. Binet	Warwick	50.2					
J. Chamberland	Sandy Bay	50.4	52.8	51.5	51.0		
A. S. Deslandes	St. Valerien	50.5	57.0	54.6	57.0		
J. B. Theriault	St. Modeste	50.6	53.1	52.2	50.3	54.6	
P. Plante	St. Joseph de Lepage	50.7	52.0	55.6		53.6	

TABLE No. 1.—Average Temperatures of Creamery Butter at Shipping Points in the Province of Quebec for Six Years, 1905 to 1910. (Inspector, J. N. Lemieux)—  
*Continued.*

Name of Proprietor or Manager.	Post Office Address.	YEARS.					
		1910.	1909.	1908.	1907.	1906.	1905.
		Deg.	Deg.	Deg.	Deg.	Deg.	Deg.
Cyril Godbont (B).....	St. Eloi.....	50.8	49.5	46.1	51.8		
Eug. Casavant.....	Upton.....	51.0					
Arthur Drouin.....	Ste. Sophie de Lacorne.....	51.0	52.7	59.0	51.8		
J. A. Moreau.....		51.0					
Ls. Archambault.....	Grondines.....	51.1	58.1	54.5	57.6	55.5	
J. A. Ratté.....	St. Paul de Montmagny.....	51.3	55.1	57.4	57.0		
Maurice Beaulieu.....	St. Philemon.....	51.4					
E. Brosseau (E. B.).....	St. Sauveur des Monts.....	51.5	62.7	59.3	63.5		
C. Laviolette.....	Cadot.....	51.5	61.0	57.2			
A. Blouin.....	St. Liguori.....	51.5		56.0			
A. Lapointe.....	".....	51.5	62.6	55.0			
Jos. Lemonde.....	St. Liboire.....	51.5	56.5	53.1	53.8		
N. Morin.....	Ste. Hélène de Kamouraska.....	51.5	57.0		58.0		
Jos. Houle.....	St. Jean de Matha.....	51.5	50.5				
L. L. Gale.....	St. Cyr.....	51.5	40.7	54.8			
L. Tourigny.....	Plessisville.....	51.6					
H. Guilbault.....	Vancuse.....	51.6	51.6			54.3	
C. F. Duguette.....	St. Hyacinthe.....	51.6	54.5	58.5			63.0
A. W. St. Cyr.....	Ste. Anne de la Perade.....	51.7	52.3	60.6			
H. H. Wilson.....	St. Sylvestre Ouest.....	51.7	48.4	47.2	49.0		
Exilius Desroches.....	Ste. Béatrice.....	51.8	48.0				
E. Brosseau (E. B. 4.).....	St. Sauveur des Monts.....	52.0	67.0	63.3	63.3		
" (E. B. 5.).....		52.0	69.0	64.3	66.0		
H. Leroux.....	Ruisseau St. Georges.....	52.0	52.1	52.6	51.0		
Syndicat St. Philomene.....	Fortierville.....	52.0		51.8			
J. W. Stuart.....	Lacolle.....	52.0					
P. Kerouack.....	St. Eugène de L'Islet.....	52.2	54.3	59.0	58.5		
Louis Tanguay.....	St. Hénédine.....	52.3					
J. B. Anctil.....	Matane.....	52.3	51.2	48.0	50.0		
A. Alarie.....	St. Jérôme.....	52.3	55.2	51.0	53.8	67.6	
B. Bernier.....	St. Michel de Bellechasse.....	52.4	56.2				
A. Dandonneau.....	St. Damien de Brandon.....	52.4	47.4	45.4	48.0		
Syndicat St. Isidore.....	Coulombe.....	52.4					
Ringuette et Frère.....	St. Nazaire d'Acton.....	52.5	56.4	60.8	47.0		
U. Malo.....	St. Paul de Joliette.....	52.5	57.0	55.3	59.0		
J. H. Paquette.....	St. Théodore d'Acton.....	52.5	51.2	58.4	57.0		
J. Durand.....	Upton.....	52.5	51.0	53.5	54.5		
O. Chagnon.....	St. Valerien.....	52.5	57.8	58.8			
Syndicat St. Paschal.....	St. Paschal.....	52.5	50.1	49.0	51.0		
Frs. Roy.....	Notre Dame du Mt. Carmel.....	52.5	50.8	45.1	56.0		
Naz. Demers.....	St. Giles.....	52.5	51.2	53.8	55.6		
Jos. B. Grenier.....	Ste. Rosalie.....	52.5	47.8	48.4	49.5		
John Belanger.....	Green River.....	52.6	55.0				
Jos. Gaudet.....	Ste. Marie Salomee.....	52.8	50.2	57.0	53.0		
Achille Carrier.....	Buckland.....	52.8	52.7	62.0	58.0		
Norbert Rocheleau.....	St. Gabriel de Brandon.....	52.8	54.5				
Leon Boucher.....	St. Valere de Bulstrode.....	52.9					
Syndicat Ste. Sophie.....	Ste. Sophie de Levrard.....	53.0					
V. Houle.....	Ste. Hélène de Bagot.....	53.0	57.2	60.8	51.2		
J. Lachapelle.....	St. Jacques L'Achigan.....	53.0	55.1		53.5		
C. Forget.....	St. Liguori.....	53.0	62.0	58.0			
J. Blanchet.....	Ste. Anne de la Pocatière.....	53.0	56.6	59.5			
H. Provencher.....	Standfold.....	53.0					
Wm. Houle.....	St. Claude.....	53.0	56.5	56.6			
Alp. Mercier.....	St. Patrice.....	53.1	52.2	49.2	49.8		
C. Eug. Michaud.....	Isle Verte.....	53.1					
Lucien Robert.....	Yamachiche.....	53.2	63.0				
Dr. Dubé.....	St. Sylvestre Est.....	53.3	52.1	54.0	56.5		
Narcisse Gadoury.....	St. Jean de Matha.....	53.4	52.2				
Lucien Bélanger.....	St. Damien de Buckland.....	53.3	54.4	55.1	59.0		
A. Pagé.....	St. Scholastique.....	53.3					
D. Kerouack.....	St. Narcisse.....	53.4	51.4	53.3	51.5		



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TABLE No. 1.—Average Temperatures of Creamery Butter at Shipping Points in the Province of Quebec for Six Years, 1905 to 1910. (Inspector, J. N. Lemieux)—*Continued.*

Name of Proprietor or Manager.	Post Office Address.	YEARS.					
		1910.	1909.	1908.	1907.	1906.	1905.
		Deg.	Deg.	Deg.	Deg.	Deg.	Deg.
Ed. Jean.....	St. Fabien.....	53.4	56.3	53.6	53.3		
Ed. Belanger.....	Cap St. Ignace.....	53.5	55.3	58.7	58.0		
Geo. Beausoleil.....	St. Alexis (Montcalm).....	53.5	62.7	58.2	55.3		
F. Goyette.....	St. Valerien.....	53.5					
Horace Bruelle.....	Upton.....	53.5	52.8	56.7	56.4		
Sam. Pellerin.....	St. Paul de Joliette.....	53.5	52.5	54.3	55.0		
G. Michon.....	St. Pie.....	53.6	47.5	50.5		44.2	55.6
A. Lafond.....	St. Didace.....	53.6	53.5	59.5			
T. St. Georges.....	St. Ambroise de Kildare.....	53.6	53.1	54.2	51.0	53.6	
Emile Pellerin.....	St. Martin.....	53.6					
D. Guibault.....	St. Gabriel de Brandon.....	53.8	52.0	45.3	54.3		
C. Dion.....	Stanford.....	54.0					
A. Langevin.....	Jogues.....	54.0	48.5	59.0			
Despres & Dandelin.....	St. Pie.....	54.0	45.5	48.0		50.3	56.1
Jos. Desroches.....	St. Beatrice.....	54.0	51.0		53.0		
Louis Bernier.....	St. Evariste.....	54.0	55.3	64.0	50.6		
Jos. Beaulieu.....	St. Flavie.....	54.0	50.0		52.5	48.6	
Cyrille Hebert.....	St. Paul Isle aux Noix.....	54.0					
A. Paquette.....	St. Magloire (Bellechasse).....	54.1					
Sam Pellerin.....	St. Paul de Joliette.....	54.2					
P. Dionne.....	St. Philippe de Neri.....	54.2	56.3	59.7	58.0		
A. Fortin.....	St. Cyrille de L'Islet.....	54.2	51.6		52.3		
John April.....	Chemin Taché.....	54.2	54.3	55.1	52.3		
A. Belzil.....	St. Mathieu.....	54.2	52.9	53.3	54.0		
A. A. Nicole (2).....	St. Simon de Rimouski.....	54.2	52.2	48.2	46.6		
Phil Roussel.....	Isle Verte.....	54.3	53.5	55.6	50.3		
Roeh Gamache.....	Ste. Julienne.....	54.5					
Madame Trottier.....	St. Sophie de Levrard.....	54.5					
D. Pelletier.....	Acton Vale.....	54.5	49.5	51.2	54.0		
Aug. Robitaille.....	St. Jean de Matha.....	54.5	54.6				
Ovide Wattier.....	St. Clet.....	54.6					
E. Menard.....	Acton Vale.....	54.7	57.0	57.5	56.4		
Louis Verro.....	Buckland.....	54.7					
Joseph Anctil.....	Riv. Blanche.....	54.8					
H. A. McNeil & frere.....	Napierville.....	55.0		53.0			
Elphege Call.....	Chatillon.....	55.0					
Octave Roy.....	St. Ephrem de Tring.....	55.0					
Jos. Lamarche.....	L'Epiphanie.....	55.0	63.0				
D. Tetreault.....	Upton.....	55.0	56.2	58.2	52.5		
J. Floury.....	St. Leon.....	55.0	47.8	42.2	57.8	60.6	57.0
Ludger Pellerin.....	Stanford.....	55.0	57.0	58.3			
J. A. Menard.....	Acton Vale.....	55.0					
E. Grenon.....	St. Barnabe (St. Hyacinthe).....	55.2	49.1	52.9	50.8	45.6	51.7
Ed. Frechette.....	St. Felix de Valois.....	55.3	56.8				
A. Richer.....	Emileville.....	55.3	57.4	62.0	53.5		
O. Hardy.....	St. Sylvere.....	55.5					
Bigras & Leger.....	St. Scholastique.....	55.5					
D. McCarthy.....	Ulverton.....	55.5	54.5	61.0	53.0		
Jos. Guertin.....	St. Liboire.....	55.5	57.2	59.4	65.0		
Cleophas Marceau.....	St. Vallier.....	55.5	55.0	60.0	55.5		
F. Prevost.....	Acton Vale.....	55.6	51.8	59.3	56.9		
Alp. Gazaille.....	St. Dominique de Bagot.....	55.6	57.7	60.0		53.2	
G. Roy.....	Montmagny.....	55.7	54.6	53.7	53.0		
E. Marchand.....	St. Joseph de Nicolet.....	55.8	51.5	57.5	53.0		
A. Lapalme (Hillcrest).....	St. Hugues.....	55.8	54.5	56.0	52.0	55.0	
Geo. Doucet.....	St. Leonard (Nicolet).....	56.0					
O. W. Seguin.....	St. Polycarpe Jct.....	56.0	55.3				
Pierre Dion.....	St. Liboire.....	56.0	53.2	57.2			
Tessier & Neven.....	St. Ambroise de Kildare.....	56.0					
A. Grenier.....	Joliette.....	56.0	54.0	47.0			
J. A. Masse.....	St. Agathe de Lotbiniere.....	56.0	50.0	58.3	50.3		
J. Aug. Roy.....	St. Jean de Matha.....	56.0	52.8			54.0	



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TABLE NO. 1.—Average Temperatures of Creamery Butter at Shipping Points in the Province of Quebec for Six Years, 1905 to 1910. (Inspector, J. N. Lemieux)—*Continued.*

Name of Proprietor or Manager.	Post Office Address.	YEARS.					
		1910.	1909.	1908.	1907.	1906.	1905.
		Deg.	Deg.	Deg.	Deg.	Deg.	Deg.
E. H. Dumas	Notre Dame du Lac	56.1	56.2				
Geo. Vermette	St. Agapit	56.2	46.9	51.6	53.6		
Louis Letourneau	Stanfold	56.2					
Ludger Rioux	Trois Pistoles	56.2	54.4	52.1	50.7		
Geo. Bergeron	Chacoura	56.3					
Nap. Dufresne	St. Helene de Bagot	56.3	55.0	60.5			
J. P. Charpentier	L'Avenir	56.3					
A. Brasseur	St. Christine	56.4	57.1				
Montreal Dairy Co.	Montreal	56.4	51.6				
Emile Leclerc	St. Guillaume	56.5					
Felix Rondeau	St. Emelie de L'Energie	56.5	51.0				
Frs. Robitaille	St. Damien de Brandon	56.5	51.0	55.8	54.8		
Thomas Lacerte	St. Severe	56.5	62.2	63.6	61.5		
A. Chagnon	St. Dominique	56.5					
Philippe Heon	St. Louis de Blandford	56.5					
Henri Malehiot	St. Gertrude	56.5	59.5	61.0	50.0		
J. A. Heroux	St. Perpetue	56.5					
L. P. Paradis	St. Raphael	56.6	55.4	53.6	55.8		
Wilfrid Ferron	St. Leon	56.6	55.6	54.6	52.7		
Jos. Charette	St. Zenon	56.6	50.7				
A. Robillard	St. Jean de Matha	56.7	52.8				
G. Tremblay	Laurence	56.7					
Arthur Tontant	St. Gregoire de Nicolet	56.8					
W. Deshaies	St. Sylvere	57.0					
Chas. E. Gelinas	St. Sylvere	57.0					
Az. Deslauriers fils	St. Dominique de Bagot	57.0	57.2	59.8			
H. Leconate	St. Theodore d Acton	57.0	53.8	59.6	54.3		
Eng. Gourgue	St. Paul de Buton	57.0	55.5				
Camille Joly	St. Emelie de L'Energie	57.0	56.5				
H. Letourneau	Shipping Station Labelle	57.0	57.0				
Alfred Dion	Wotton	57.0					
H. Provost	L'Epiphanie	57.1	53.6	60.0	55.0		
S. Deslauriers	Dumby	57.2					
Camille Bernier	Cap St. Ignace	57.2	51.9	58.0			
Fortin & Blanchet	Napierville	57.3		60.0			
O. Archaubault	St. Paul L'Ermite	57.3	55.5				
App. Drouin	St. Elzear	57.3					
Honore Charland	St. Simon de Bagot	57.4	58.0	58.8	52.7	53.7	
Canadian Farm Produce	Montreal	57.5					
Alphide Laplante	St. Perpetue	57.5					
Pacifique Houle	St. Germain de Grantham	57.5	57.5	60.4	49.0		
App. Roberge	St. Samuel	57.5					
Alb. Roy	St. Ephrem de Tring	57.5	56.0	55.7	56.3		
A. Allard	L'Assomption	57.5					
W. Landreville	St. Jean de Matha	57.5	55.2				
G. E. Dussault	St. Marguerite (Dorchester)	57.5					
Exilius Lanthier	St. Augustin (2 Mountains)	57.6	62.0	55.2	54.2	56.4	
Ed. D. Desrosiers	St. Felix de Valois	57.6					
D. Lariiviere	Sta. Marie de Blandford	57.6	57.5	57.5			
Albert Houle	St. Simon de Bagot	57.6	57.0	61.2	50.0	55.0	
Jos. Rocheleau	St. Didace	57.8	52.7	56.1	61.5		
A. Tremblay	St. Aubert	57.8	52.7	57.7			
I. Jodoin	St. Theodore d'Acton	57.8	56.7	53.2	51.5		
Elzear Beaudoin	Kingsey Falls	58.0					
J. D. Blanchet	St. Roch des Aulnaies	58.0	55.3	58.9	56.0		
Raoul Trottier	St. Casimir	58.0					
Hubert Jean	St. Evariste	58.0					
Achille Fournier	Gentilly	58.0					
Albert Desrosiers	St. Beatrice	58.0	52.5	58.0			
M. Boucher	St. Melanie	58.1	53.3	52.5	56.5	60.0	
T. Lizotte	St. Louise	58.2	56.1	58.5			
Therault & Frere	St. Alphonse Rodriguez	58.2	53.5	55.0	55.0		

## SESSIONAL PAPER No. 15a

TABLE No. 1.—Average Temperatures of Creamery Butter at Shipping Points in the Province of Quebec for Six Years, 1905 to 1910. (Inspector, J. N. Lemieux)—*Continued.*

Name of Proprietor or Manager.	Post Office Address.	YEARS.					
		1910.	1909.	1908.	1907.	1906.	1905.
		Deg.	Deg.	Deg.	Deg.	Deg.	Deg.
A. Gamache.....	St. Jean Port Joli.....	58° 3					
W. Vezina.....	Cap Sante.....	58° 3	57° 6	66° 2	59° 3		
Albert Lapointe.....	St. Paul d'Industrie.....	58° 4	59° 1	55° 0	52° 0		
J. Dumas.....	St. Jean de Dieu.....	58° 5	56° 2	51° 3	54° 0		
Aug. Boucher.....	St. Cleophas de Brandon.....	58° 5	52° 7				
Adelard Bernard.....	St. Ephrem de Tring.....	58° 5	55° 3	56° 7	54° 8		
Jos. St. Pierre.....	St. Rosalie.....	58° 6	56° 0	59° 0	52° 0		
Theberge & Letestu.....	St. Pie.....	58° 6					
J. P. Cyr.....	Lambton.....	58° 6					
Chs. E. Gravel.....	L'Assomption.....	58° 6	55° 0	61° 3	58° 2		
R. Maillet.....	St. Honore.....	59° 0					
Ribeau & Ratté.....	St. Antoine de Tilly.....	59° 0					
J. A. Allaire.....	St. Roch L'Achigan.....	59° 0	59° 6	62° 8	56° 0		
L. Parent.....	L'Assomption.....	59° 0					
B. Bergeron.....	La Minerve.....	59° 0					
D. Lorrain (St. J.).....	St. Janvier.....	59° 0	56° 5	61° 5	58° 0		
O. Ratelle.....	Lavalrie Station.....	59° 2					
J. E. Tondreau.....	Montmagny.....	59° 2	57° 6				
A. Dupont.....	St. Christine.....	59° 2					
Achille Fournier.....	Gentilly.....	59° 3					
V. Gerry.....	Milton.....	59° 3	51° 0	62° 0			
Pierre Rancourt.....	St. Ephrem de Tring.....	59° 5					
P. H. Gareau.....	St. Polycarpe.....	59° 5	58° 2				
Jos. Perron.....	St. Casimir.....	59° 5					
Doucet & Clement.....	L'Epiphanie.....	59° 5	59° 0	61° 5	54° 0		
Max Ginser.....	Joliette.....	59° 5					
A. Gandreau.....	L'Islet.....	59° 5	54° 7	61° 2	55° 5		
A. Lacomte.....	St. Pierre Riv. du Sud.....	59° 5	56° 3				
Jos. C. Rioux.....	Mont Joli.....	59° 5	49° 2	53° 8	53° 8		
Pierre Langlois.....	St. Angèle de Merizzi.....	59° 5	52° 6		57° 0	53° 3	
J. P. Rocheleau.....	Pauline.....	59° 6	55° 0				
E. Casavant.....	Papineau.....	59° 6	56° 5	60° 0			
Eustache Ménard.....	L'Anse à Gilles.....	59° 7	55° 1	62° 5	60° 0		
J. E. Dion.....	St. Sébastien (Beauce).....	59° 7					
O. Gendron.....	Yamachiche.....	59° 8	60° 4	64° 2	63° 2		
A. Robidoux.....	Annonciation.....	60° 0					
Ludger Lacasse.....	Ste. Lucie.....	60° 0	55° 0	57° 2			
J. W. Kimpton.....	Shawbridge.....	60° 0	61° 5	59° 5	59° 3	63° 0	
A. Plante.....	St. Félix de Valois.....	60° 0					
Naz. Héroux.....	St. Barnabé (St. Maurice).....	60° 0	59° 6	59° 3			
Ls. Lebeau.....	St. Paul l'Ermitte.....	60° 0	66° 0	59° 0			
P. Houle.....	St. Apollinaire.....	60° 0					
F. Demers.....	St. Honoré.....	60° 0					
Noël Massé.....	St. Ephrem de Tring.....	60° 0	54° 6	56° 9	54° 8		
Gédéon Roy.....	St. Ephrem de Tring.....	60° 0	53° 0	57° 3	49° 1		
Jos. Tremblay.....	Petite Matane.....	60° 0	63° 6				
A. Desmarais.....	St. Félix de Valois.....	60° 2	56° 0				
E. Aubin.....	St. Apollinaire.....	60° 3					
H. Lapalme.....	Abbotsford.....	60° 3	61° 2	63° 7	52° 0	51° 4	62° 0
A. Lapalme.....	St. Hugues.....	60° 4	54° 7	48° 0	50° 0		
H. Lacasse.....	St. Lucie.....	60° 4	58° 5	59° 3	64° 3		
J. A. Hamel.....	Ste. Emilie de Lotbinière.....	60° 4					
J. G. Héroux.....	Terrebonne.....	60° 5	56° 7		59° 5		
A. Olivier.....	St. Norbert.....	60° 5	54° 7	56° 0	54° 5		
Fulbert Garneau.....	St. Martin.....	60° 5					
P. Noël.....	St. Apollinaire.....	60° 5					
Cyril Godbout.....	St. Elroi (St. Rose du Degelé).....	60° 6					
Cléophas Vadnais.....	St. Marcel.....	60° 6	55° 0	59° 0			
Amédée Touchette.....	Milton.....	60° 6					
Archer Roy.....	St. Elizabeth.....	60° 7	61° 3	53° 3	54° 4		
L. E. Côté.....	Montmagny.....	60° 7	58° 2	59° 5	61° 0		

TABLE No. 1.—Average Temperatures of Creamery Butter at Shipping Points in the Province of Quebec for Six Years, 1905 to 1910. (Inspector, J. N. Lemieux)—  
*Continued.*

Name of Proprietor or Manager.	Post Office Address.	YEARS.					
		1910.	1909.	1908.	1907.	1906.	1905.
		Deg.	Deg.	Deg.	Deg.	Deg.	Deg.
Jos. Tremblay.....	St. Félicité.....	60.8	56.4	55.8	55.5		
A. Bourgoïn.....	Mascouche.....	61.0					
Boisvert & Gauthier.....	Terrebonne.....	61.0					
Arthur Bazinet.....	St. Emilie de L'Energie.....	61.0	56.8				
D. Lorrain.....	St. Janvier.....	61.0					
Hector Blanchard.....	St. Hyacinthe.....	61.0	57.0		61.0		
A. Deragon.....	St. Valérie.....	61.0	51.0	58.0		53.8	
Zenon Binet.....	St. Augustin.....	61.2					
J. A. Héroux.....	St. Elie de Caxton.....	61.3					
Paul Robidoux.....	St. Marcel.....	61.3	53.5				
O. Malenfant.....	St. Rose du Degelé.....	61.5	61.0				
Azare Brien.....	Pont Mousseau.....	61.5	59.2				
A. Casavant.....	St. Dominique.....	61.5					
Joseph Roy.....	St. Vallier.....	61.6	59.7	60.0			
Boisvert & Bussière.....	Caxton.....	61.8	61.0	63.0	59.5		
W. A. Oswald.....	Petit Brûlé.....	61.8					
D. T. Brunet.....	St. Eustache.....	61.8					
J. Dessert.....	Petite Rivière.....	62.0	58.0	58.5			
Sinaï Simard.....	St. Donat.....	62.0					
A. Lessard.....	St. Adèle.....	62.0					
Jos. Shaw.....	St. Jérôme.....	62.0					
Jos. Dufresne.....	St. Gabriel de Brandon.....	62.0	52.0				
Irénée Thibault.....	St. Pamphile.....	62.0					
Z. A. Leblanc.....	South Durham.....	62.0					
T. Messier.....	St. Hélène de Bagot.....	62.0	58.5	63.3	47.0		
J. G. Hamelin.....	St. Polycarpe Junction.....	62.0	63.5				
Aurèle Leclerc.....	St. Eugène de Grantham.....	62.0	56.3	59.5	53.3		
N. Tétreault.....	St. Hugues.....	62.2	54.5	59.0	50.5	53.6	
Gélinas & Bouchier.....	St. Barnabé (St. Maurice).....	62.2	59.3	61.6			
Jos. Bolduc.....	Morin.....	62.3	54.7	56.6			
J. Bernier.....	St. Jean Port Joli West.....	62.3					
Omer Vallières.....	Potvin.....	62.3					
W. Talbot.....	St. George (Beauce).....	62.3					
P. Lehuis.....	Grande Frénière.....	62.5	63.6	61.0			
Geo. Barabé.....	Gentilly.....	62.5					
Henri Bergeron.....	St. Charles de Mandeville.....	62.5	52.0		52.0		
L. Lecompte.....	St. François (Montmagny).....	62.5	56.1	57.2	61.0		
J. E. Grenier.....	Hunterstown.....	62.5	61.4	62.6			
R. Chagnon.....	St. Germain de Grantham.....	62.5	45.4	59.0	49.0		
Geo. Lacasse.....	St. Honore.....	62.5	50.6	51.3	52.0		
J. B. Lalonde.....	St. Monique (2 Mountains).....	62.6					
J. Adelard Bourbonnais.....	St. Polycarpe.....	62.8	56.0				
Jos. Lucas.....	St. Gabriel (Rimouski).....	63.0					
J. St. Martin.....	St. Louis de Bonsecours.....	63.0					
Phileas Allard.....	St. Alexis des Monts.....	63.0	60.2	60.0	51.5	66.3	
Achille Fournier.....	Gentilly.....	63.0					
Prudent Dumas.....	St. François (Montmagny).....	63.3	56.0				
C. Proulx.....	L'Avenir.....	63.5					
S. Latulippe.....	St. Vallier.....	63.5					
Z. Gauthier.....	Mascouche.....	63.5	63.0	57.0	57.0		
H. Bergeron.....	St. Paulin.....	63.7	58.6	56.0	51.5	66.3	
Wilbrod Lamy.....	St. Leon.....	63.7	59.6	53.0			
Michel Bourassa.....	St. Barnabé (St. Maurice).....	64.0					
Ludger Caron.....	Jersey Mills (Beauce).....	64.0					
Cleophas Bolduc.....	St. Georges.....	64.0					
F. Cinq-Mars.....	St. Pierre les Becquets.....	64.0	61.3				
J. T. Girard.....	St. Angele de Monnoir.....	64.3					
L. Menard.....	St. Lazare Station.....	64.4	56.0				
J. A. Duguette.....	St. Brigitte des Saults.....	64.5					
A. Morissette.....	St. Sophie de Levrard.....	64.5					
M. Brosseau.....	Piedmont.....	64.5	63.5	62.0			
J. B. St. Pierre.....	St. Hippolyte de Kilkenny.....	64.5	53.2	62.7	68.0		





FIG. 1.—Part of a 400 acre Orchard in British Columbia.



FIG. 2.—A British Columbia Home.







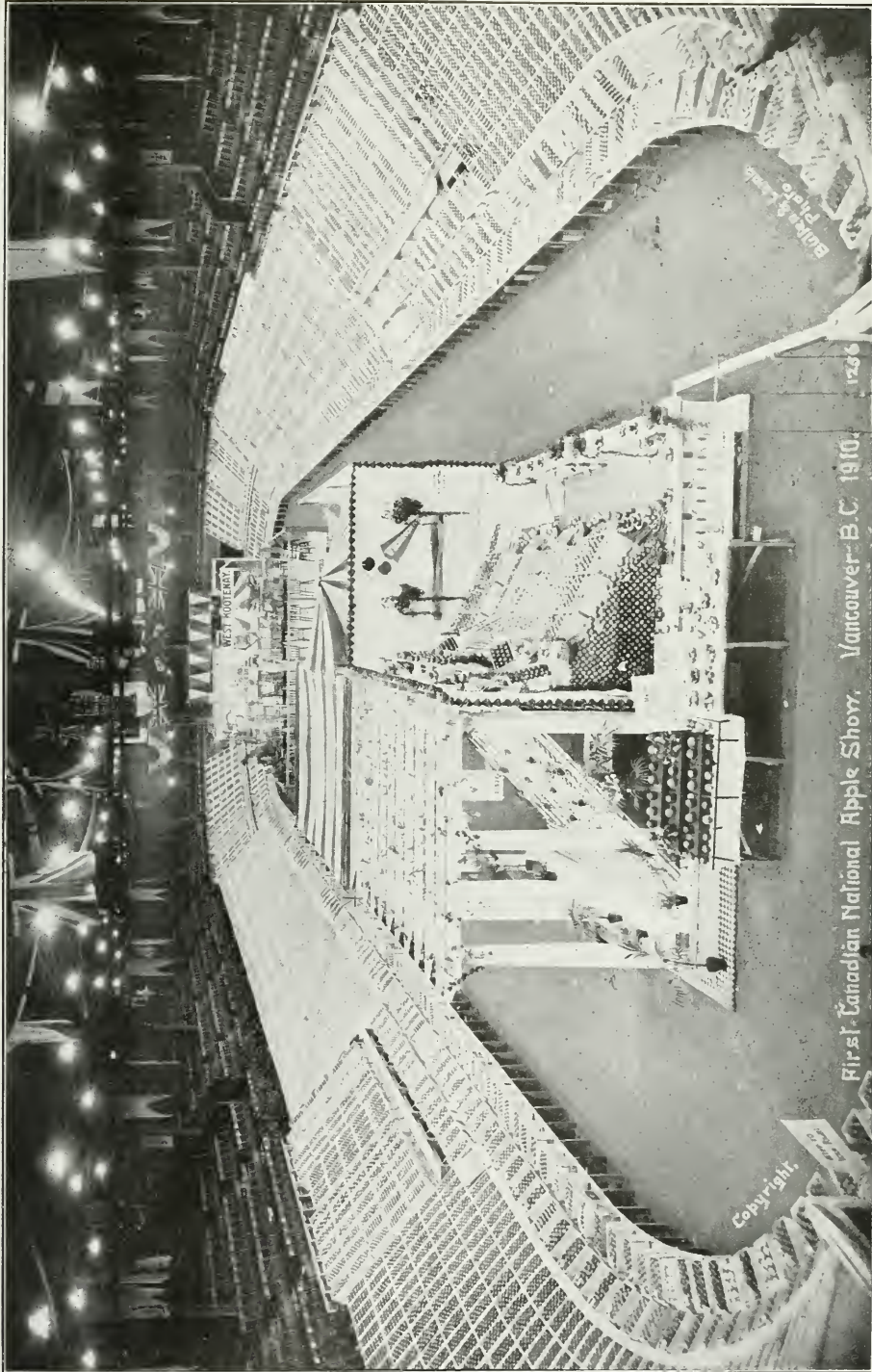
FIG. 1.—A Niagara Cherry Orchard.



FIG. 2.—A Fine Clover Crop near Burlington, Ont.







First Canadian National Apple Show, Vancouver-B.C. 1910.

Main Building, Canadian National Apple Show, Vancouver, 1910.



## SESSIONAL PAPER No. 15a

TABLE No. 1.—Average Temperatures of Creamery Butter at Shipping Points in the Province of Quebec for Six Years, 1905 to 1910. (Inspector, J. N. Lemieux)—*Continued.*

Name of Proprietor or Manager.	Post Office Address.	YEARS.					
		1910.	1909.	1908.	1907.	1906.	1905.
		Deg.	Deg.	Deg.	Deg.	Deg.	Deg.
La Cie de Laiterie .....	St. Pierre Riv. du Sud ....	64.5	55.5	59.5	.....	.....	.....
Louis Roy .....	Berthier en bas .....	64.5	.....	.....	.....	.....	.....
Alp. Drouin .....	La Baie .....	63.0	.....	.....	.....	.....	.....
Felix Bruneau .....	St. Melanie .....	65.0	56.0	.....	.....	.....	.....
Hyacinthe Cyr .....	Two Mountains .....	65.0	.....	.....	.....	.....	.....
P. Mailloux .....	Rougemont .....	65.0	60.5	63.0	50.0	51.6	53.6
Severin Boulerice .....	St. Edouard Napierville .....	65.0	.....	.....	.....	.....	.....
J. B. Coutu .....	St. Gabriel de Brandon .....	66.0	54.3	57.8	55.3	58.6	.....
J. A. Desrosiers .....	St. Felix de Valois .....	66.0	58.5	.....	.....	.....	.....
Ernest Desfosses .....	St. Paulin .....	67.5	.....	.....	.....	.....	.....
Roch Bradley .....	St. Lazaire Village .....	67.5	59.5	.....	.....	.....	.....
E. Thinelle .....	St. Calixte .....	67.5	61.5	62.0	58.0	.....	.....



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TABLE No. 2.—Average Temperatures of Creamery Butter at Shipping Points in the Province of Quebec for Six Years, 1905 to 1910 (Inspector, F. A. Knowlton).

Name of Proprietor or Manager.	Post Office Address.	YEARS.					
		1910.	1909.	1908.	1907.	1906.	1905.
		Deg.	Deg.	Deg.	Deg.	Deg.	Deg.
J. McKay (H.B.R. 8).....	North Hatley.....	43.0	48.8	52.8	46.3	43.7	48.4
J. Labelle.....	Vale Perkins.....	45.0	45.2	45.5	47.9	51.2	52.5
W. W. Reed.....	North Hatley.....	45.3	49.0	.....	41.9	43.2	47.5
A. L. Bouchard.....	Eastman.....	45.3	44.0	44.0	50.0	44.1	51.1
L. Ledouneur.....	St. Edwidge de Clifton.....	45.5	46.0	51.8	39.5	.....	.....
L. Fleurie.....	Lawrenceville.....	46.0	.....	.....	.....	.....	.....
A. Sharkey.....	Cherry River.....	46.2	47.0	51.1	48.5	48.5	.....
John McCrum.....	Iron Hill.....	46.5	47.9	49.2	45.5	43.9	43.3
Juaire & Dussault.....	Knowlton.....	46.8	48.1	48.5	46.2	49.8	47.1
Guy Griggs.....	Mansonville.....	47.1	45.0	46.5	48.5	51.2	52.7
Reverend A. Tremblay.....	St. Herménégilde.....	47.1	49.0	53.1	41.5	45.3	47.4
Bureau & Gilbert.....	Compton.....	47.2	45.0	57.4	49.6	.....	.....
H. R. Standish.....	Magog.....	47.4	46.9	47.3	45.5	48.0	47.3
A. A. Hodge.....	Sawyerville.....	48.0	45.0	43.3	43.0	47.3	52.2
Raboin & Raboin.....	Compton.....	48.6	56.2	53.6	49.8	42.6	43.3
W. K. Baldwin.....	Baldwin's Mills.....	48.6	52.5	54.0	43.6	.....	.....
Morrison & Bowen.....	East Hatley.....	48.6	54.0	52.0	50.5	50.0	52.1
H. Archambault (Rapid River).....	Farnham.....	49.0	.....	.....	.....	.....	.....
H. Purdy.....	Melboro.....	49.2	51.0	47.5	48.8	48.5	.....
J. L'Heureux.....	Katevale.....	49.3	49.0	54.2	50.5	51.8	56.3
A. Gerin.....	Coaticook.....	49.5	46.6	49.4	48.1	48.8	50.2
A. E. Fish.....	Ayers Cliff.....	49.5	50.2	.....	49.4	48.0	51.0
J. M. Darby.....	Ormstown.....	49.7	46.0	.....	.....	.....	.....
H. B. R.....	.....	49.7	.....	.....	.....	.....	.....
G. A. Robb.....	Warden.....	49.9	50.5	48.6	50.0	51.5	51.7
B. Converse.....	Barnston Corner.....	50.0	51.4	50.9	48.2	49.5	53.6
M. Riders.....	Fitch Bay.....	50.0	48.5	48.8	46.7	51.5	49.0
J. McKay (M.M.).....	North Hatley.....	50.0	.....	.....	.....	.....	.....
H. Archambault (Lily 1).....	Farnham.....	50.6	.....	.....	.....	.....	.....
G. C. Russell.....	North Stanbridge.....	50.6	.....	.....	.....	.....	.....
(Elm Bank).....	.....	50.6	.....	.....	.....	.....	.....
J. J. Vanasse.....	West Wickham.....	51.1	47.0	53.1	56.8	52.9	.....
F. Patenaude.....	St. Brigide.....	51.4	.....	.....	.....	.....	.....
E. McGowan (E. 49).....	St. Martine.....	52.5	.....	.....	.....	.....	.....
C. Desmoyers.....	Angeline.....	52.5	.....	.....	.....	.....	.....
A. L. Dupuis.....	Coaticook.....	52.6	46.6	55.0	36.6	.....	.....
E. McGowan (E. 44).....	St. Martine.....	53.0	.....	.....	.....	.....	.....
Dale 30.....	.....	53.0	.....	.....	.....	.....	.....
A. Janelle.....	West Wickham.....	53.6	.....	.....	.....	.....	.....
W. Lacasse.....	St. Etienne de Bolton.....	53.9	52.9	52.3	52.0	.....	.....
John Rooney.....	Stoke Centre.....	54.0	.....	.....	.....	.....	.....
W. Tannerhill.....	Ormstown.....	54.0	.....	.....	.....	.....	.....
H. Winter (Aberdeen 3).....	Ormstown.....	54.0	.....	.....	.....	.....	.....
Joseph Bisette.....	Versailles.....	54.0	.....	.....	.....	.....	.....
J. Leclair.....	Foster.....	54.0	.....	.....	.....	.....	.....
J. A. Vinet.....	Holton.....	54.5	50.0	55.5	53.5	48.3	49.4
W. S. Purdy.....	South Stukeley.....	55.5	47.5	56.4	.....	51.3	.....
A. Delage.....	Farnham.....	56.0	.....	.....	.....	.....	.....
M. Boyer.....	South Roxton.....	56.0	.....	.....	.....	.....	.....
Fridette & Painchaud.....	Sherrington.....	56.5	62.0	57.4	52.3	52.6	55.0
J. A. Lapierre (25).....	Bromptonville.....	56.6	47.5	42.0	.....	.....	52.1
S. Raboin.....	St. Edwidge de Clifton.....	56.8	65.5	51.8	51.4	.....	.....
W. H. Bullock.....	South Roxton.....	56.8	.....	.....	.....	.....	.....
J. Normandin.....	South Roxton.....	57.3	.....	.....	.....	.....	.....
H. Winter (Aberdeen 1).....	Ormstown.....	57.4	52.0	.....	.....	.....	.....
R. A. Delorme.....	South Roxton.....	57.6	.....	.....	.....	.....	.....
Joseph Alix.....	St. Brigide.....	58.0	.....	.....	.....	.....	.....
Stewart & Fournier (1).....	Hemmingford.....	58.0	49.0	60.0	45.3	50.8	56.6
Stewart & Fournier (2).....	Hemmingford.....	58.0	.....	.....	.....	.....	.....
(Rose 33).....	.....	58.0	.....	.....	.....	.....	.....
E. Paradis.....	St. Francois Xavier de Brompton.....	58.6	.....	.....	.....	.....	.....
J. St. Pierre.....	Roxton Pond.....	58.7	.....	.....	.....	.....	.....
J. A. Lapierre (5).....	Bromptonville.....	59.0	.....	.....	.....	.....	.....
J. A. Laperle.....	Granby.....	61.0	.....	.....	.....	.....	.....
Leopold Gevry.....	East Milton.....	65.0	.....	.....	.....	.....	.....

## SESSIONAL PAPER No. 15a

TABLE NO. 3.—Average Temperatures of Creamery Butter at Shipping Points in the Province of Ontario, season 1910. (Inspector, H. G. Shufelt.)

Proprietor or Manager.	Post Office Address.	Shipping Station.	Railway.	No. of Packages Tested.	Average Temperature.
					Deg.
A. G. Calder. ....	Seaforth.....	Seaforth.....	G. T. R.	7	43·0
H. E. Wilson. ....	Strathroy.....	Strathroy. ....	" " "	4	45·0
Wilmot Creamery Co.....	Baden.....	Baden.....	" " "	5	45·8
W. Waddell.....	Kerwood.....	Kerwood.....	" " "	12	46·3
Saugeen Valley Creamery Co. ....	Neustadt.....	Neustadt.....	" " "	14	46·6
Forest Creamery Co.....	Forest.....	Forest.....	" " "	7	46·7
Climax Creamery Co.....	Tiverton.....	Kincardine.....	" " "	8	49·5
C. E. Lister.....	Chatham.....	Chatham.....	C. P. R.	13	49·7
W. H. Harris.....	Brussels.....	Brussels.....	G. T. R.	6	49·8
Chas. McDonald.....	N. Bothwell.....	N. Bothwell ....	C. P. R.	5	50·4
Lambton Creamery Co.....	Petrolia.....	Petrolia.....	G. T. R.	12	52·0
Underwood Creamery Co.....	Port Elgin.....	Port Elgin.....	" " "	6	52·0
M. McCall.....	Ayr.....	Ayr.....	C. P. R.	4	52·2
T. A. Stevens.....	Wheatley.....	Wheatley.....	P. M. R.	6	52·3
John Ireland.....	Ridgewood.....	Ridgewood.....	" " "	7	52·5
W. H. Brubacker.....	Dresden.....	Dresden.....	" " "	5	54·0
W. Parker.....	Merlin.....	Merlin.....	" " "	7	54·0
R. E. Frazer.....	Dutton.....	Dutton.....	" " "	5	54·2
Lang & Cunningham.....	Harrow.....	Harrow.....	" " "	7	54·7
J. H. Scott.....	Exeter.....	Exeter.....	G. T. R.	7	57·1
Winthrop Creamery Co.....	Ingersoll.....	Seaforth.....	" " "	7	59·1
Thomas Willis.....	Centralia.....	Centralia.....	" " "	7	59·2
W. G. Medd.....	Winchelsea.....	Exeter.....	" " "	18	59·8
R. A. Thomas.....	Beeton.....	Beeton.....	" " "	6	66·5
W. J. Hopkins.....	Komoka.....	Komoka.....	" " "	8	61·3
L. O. Jackson.....	Mitchell.....	Mitchell.....	" " "	5	67·2
Wm. Clairidge.....	Glen Huron.....	Glen Huron.....	" " "	7	70·2

In 1909 the lowest average temperature was 47·8 degrees and the highest 62·3 degrees, in 1908 the extremes were 47·5 and 73·3 degrees and in 1907, 41·3 and 61·3 degrees.

Each week throughout the season a letter was sent to all shippers whose butter tested higher than 50 degrees at the shipping point, and in January a circular was sent to all the names in tables 1 and 2 giving them the average temperature of their butter for the past six years, instructing them how to disinfect their cold storage rooms and urging them to store a quantity of ice sufficient for their needs.

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TABLE No. 4.—Temperatures of Ontario and Quebec Butter at Shipping Points and at Montreal, Season 1910.

	Number of Cars with Marked Packages.	No. of Packages tested at shipping points and at Montreal.	Average Temper- ature at Shipping Points.	Average Temper- ature at Montreal.	Increase in Temper- ature.	Reduction in Temper- ature.
			Deg.	Deg.	Deg.	Deg.
Ontario via C. P. R. ....	2	18	60.3	56.4	.....	3.9
" " G. T. R. ....	9	65	61.1	52.7	.....	8.4
" " P. M. R. ....	3	25	64.8	55.1	.....	9.7
Quebec (north of St. Lawrence) via C. P. R. ....	9	199	56.3	53.6	.....	0.7
Quebec (south of St. Lawrence) via C. P. R. ....	27	231	50.3	50.2	.....	0.1
Quebec via G. T. R. ....	15	193	52.1	53.5	1.4	.....
" " I. C. R. ....	9	168	55.1	54.9	.....	0.2
" " C. V. R. ....	3	33	51.2	53.1	1.9	.....
" " C. N. Q. R. ....	6	67	54.3	56.2	1.9	.....
" " Q. C. R. ....	2	43	56.5	56.1	.....	0.4
" " Q. M. & S. R. ....	4	45	59.7	57.4	.....	2.3
Totals .....	89	1,087	.....	.....	.....	.....
General average .....			54.5	53.8	.....	0.7
Season 1908, general average .....			54.9	54.4	.....	0.5
" 1907 " " .....			51.3	50.5	.....	0.8
" 1906 " " .....			52.6	53.2	0.6	.....
" 1905 " " .....			54.4	54.5	0.1	.....

In concluding this report I take pleasure in testifying to the cordial relations existing between the inspectors of this Division and the shipping companies. In the first few years of cargo inspection work we were fortunate in enlisting the sympathy and co-operation of the principal officials of the steamship companies and we have continued to hold their good will notwithstanding the fact that we are obliged sometimes to bring them to book for sins of commission or omission on the part of their employees. It is equally gratifying to point out that, in connection with the arrangement between this department and the railway companies for the running of special iced cars for butter, cheese and fruit, we find the responsible officials anxious to provide the best possible service and willing to carry out any suggestions we may make in the interests of the shippers.

Respectfully submitted,

W. W. MOORE,  
Chief, Markets Division.

## PART III.—FRUIT.





### PART III—FRUIT.

#### FROM THE CHIEF OF THE FRUIT DIVISION TO THE DAIRY AND COLD STORAGE COMMISSIONER.

SIR,—I beg leave to present my report for the year ending March, 1911.

The work of the Fruit Division has been conducted this year under conditions very similar to previous years, the main portion of the work being connected with the enforcement of the Inspection and Sales Act and the publishing of the Fruit Crop Report. When not actively employed in inspection work, the inspectors were engaged in assisting at fruit meetings and judging at fruit exhibitions.

#### THE STAFF.

There have been some changes in the Fruit Division staff. Mr. M. R. Baker, who for nearly four years has been my assistant, resigned in the month of August. Mr. J. H. McLeod, by arrangement with the Department of Customs, has been appointed fruit inspector to look after the importations at Prince Rupert, B.C.

The staff at present consists of 12 permanent inspectors and 15 temporary inspectors distributed as follows:—

Mr. G. H. Vroom, a permanent inspector in Nova Scotia, has general oversight of the work in the maritime provinces. A permanent inspector is located in Prince Edward Island; four temporary inspectors in Nova Scotia and one in New Brunswick are employed during the fruit season. A temporary inspector is located at the city of Quebec and works from Montreal eastward through the province. Two permanent inspectors are placed at Montreal; these are assisted during the busy season by two temporary inspectors. Two permanent and four temporary inspectors are located in the apple sections of Ontario and remain there during the fruit season.

A temporary inspector is placed at Port Arthur. There is a quantity of fruit coming in at Port Arthur and Fort William, and Sault Ste. Marie is also a distributing point for a large quantity of Canadian fruit.

At the close of navigation at Montreal, the inspectors there are transferred to the storehouses in Ontario, which are located chiefly along the north shore of Lake Ontario.

The inspection work in Manitoba is done by a permanent inspector located at Winnipeg with an assistant during the shipping season; a permanent inspector is located at Calgary, and temporary inspectors are engaged for the work in Regina and Lethbridge.

The work in British Columbia is carried on by a permanent inspector at New Westminster, Grand Forks, Nelson and Prince Rupert. The inspectors at Grand Forks, Nelson and Prince Rupert are particularly concerned with the examination of fruit imported from the United States.

#### NATURE OF THE WORK.

There is a common misapprehension that the Dominion Fruit Inspectors attempt to examine all, or a large part of the apples, offered for sale. It is therefore necessary to continually inform the public that no attempt at anything of the sort is made. The Inspection and Sales Act places the onus of grading and marking the fruit upon

the owner at the time of packing; and the work of the fruit inspectors is to detect as many violations of the Act as possible. They are not at the disposal of packers for the purpose of giving advice upon matters of grading or packing, but confine themselves to examining the work after it is done, the supposition being that any man who attempts to pack apples is competent to do it. British Columbia and Ontario and, to a lesser extent, the maritime provinces, have instituted excellent means of instruction in the art of grading and packing fruit, and in consequence there has been a marked improvement in this respect in Canadian fruit.

#### IMPORTED FRUIT.

Special attention was directed this year to imported fruit. The imports of apples as reported by the Customs Department for 1910-11 were 135,091 barrels, valued at \$430,505, as against 59,071 barrels valued at \$261,792 for 1909-10. The number of packages inspected in 1909-10 was 2,570 and in 1910-11, 3,412. The quality of the fruit, speaking generally, was good, the percentage of higher grades being much larger than in the domestic fruits as was naturally to be expected.

Little or no complaint has been made by the merchants as to the quality of this fruit, and our inspectors report the grading and packing, in the main, quite satisfactory. The only difficulty is that of securing conformity to the Inspection and Sale Act with reference to marking. It has been insisted that the person who imports the fruit marks it according to the requirements of Section 320 of the Act.

Owing to the rapid growth of the northwest, many dealers new to the business have been opening salesrooms. These dealers require very close attention to secure conformity of the law. The inspectors report that the merchants have almost, without exception, accepted the situation and are marking the imported goods as required. From the nature of the case, it is occasionally very difficult to conform to the law, and most of the violations discovered are the result of accident, or of instructions that have been imperfectly understood by subordinates. The conditions under which the fruits are now imported leave little cause for complaint so far as they affect the Inspection and Sale Act.

#### INSPECTION STATISTICS.

The following table gives comparative statements of the number of lots inspected, number of packages in lots inspected, and the number of packages inspected for the seasons 1908-9, 1909-10 and 1910-11:—

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Variety.	No. of Lots Inspected.	No. of pkgs. in Lots Inspected.	No. of pkgs. Inspected.
1908-09.			
Apples ..... Brls.	5,940	682,657	42,223
" ..... Boxes.	248	100,792	2,701
Pears ..... "	88	54,150	7,924
Peaches ..... "	91	140,976	16,005
Plums ..... Baskets.	54	16,505	1,474
Tomatoes ..... "	53	11,381	779
Small fruits ..... Quarts.	863	1,184,651	154,874
1909-10.			
Apples ..... Brls.	7,736	859,572	63,232
" ..... Boxes.	902	157,939	7,363
Pears ..... "	248	41,450	2,738
Peaches ..... "	410	60,248	3,817
Plums ..... Baskets.	264	62,883	4,257
Tomatoes ..... "	149	50,043	3,241
Apricots ..... Boxes.	11	12,495	481
Small fruits ..... Quarts.	2,491	2,310,264	240,751
1910-11.			
Apples ..... Brls.	4,527	360,768	26,890
" ..... Boxes	1,347	234,182	9,829
" ..... Baskets.	171	17,551	10,393
Pears ..... Boxes.	371	40,681	2,750
Peaches ..... "	11	2,269	36
" ..... Baskets.	383	70,564	5,932
Tomatoes ..... "	56	6,570	601
Plums ..... "	189	50,575	5,144
Small fruits ..... Quarts.	1,502	568,510	155,048

## CONVICTIONS.

The convictions under the Inspection and Sale Act were fewer in number in 1910-11 than in 1909-10. There were several reasons for this. The quality of the fruit for the season 1910 was much better than for 1909, and the bulk of the fruit was grown in sections of the country that have learned to respect the Inspection and Sale Act. The very vigorous enforcement of the Act by means of prosecutions in 1909, no doubt acted as a deterrent, and, also, a larger proportion of the fruit was packed by the co-operative associations and, as has been the case always, their work is seldom wrong. And, lastly, the recent amendment to the Inspection and Sale Act making the fine for a third offence from \$50 to \$200, has made it extremely unprofitable for certain disreputable dealers. These formerly practically defied the law by paying the nominal fine which did not cut seriously into their profits.

It might be pointed out here that violations of the Inspection and Sale Act are confined very largely to apple buyers. Comparatively few growers, packing their own fruit, have been convicted under the Act.

The following persons were convicted under the Inspection and Sale Act during the season 1910-11:—

## Ontario:

J. H. Bellamy..	Colborne.
W. J. Bragg..	Bowmanville.
J. A. & E. Brown..	Port Hope.
M. Burtis..	Hatchley.
J. W. Clement..	Brantford (3 convictions).
B. H. Coyle..	Colborne (2 convictions).
John Coyle..	" (4 " ).
A. E. Donaghy..	" (4 " ).

## Ontario—Continued.

H. W. Dudley.. . . .	Newcastle.
J. G. Dudley & Sons (Sam Dudley)..	Colborne.
E. E. Elliott.. . . .	Harley.
J. F. Elliott.. . . .	Woodstock.
S. Farrel.. . . .	Burford.
Silas Foster.. . . .	Bowmanville.
I. A. Ghent.. . . .	Castleton.
R. Gordon.. . . .	Duntroon.
Fred. Heiffer.. . . .	Picton.
R. Henderson.. . . .	Alliston.
H. Herrington.. . . .	Brighton.
S. P. Herrington.. . . .	"
M. Holbert.. . . .	Thomasburg.
Allen Jarvis.. . . .	Picton.
E. Laycock.. . . .	Meaford.
W. G. Monet.. . . .	Port Perry.
Frank Rice.. . . .	Sweaborg.
J. A. Rutherford.. . . .	Colborne.
Ralph Rutherford.. . . .	Colborne.
R. S. Smythe.. . . .	Oshawa.
R. D. Snellgrove.. . . .	Brighton.
R. A. Townsend.. . . .	Thurlow.
A. W. Vancott.. . . .	Belleville.

## Manitoba:

Carman Brokerage Company .. . .	Winnipeg.
James Vair.. . . .	"

## British Columbia:

Eugene Herrick.. . . .	Carson.
Geo. Hick.. . . .	Swan Lake.
H. Kipp.. . . .	Chilliwack.
E. W. Plowright.. . . .	Victoria.
Fred Saul.. . . .	"
Jacob Zinc.. . . .	Sardis.

## Nova Scotia:

Aylesford Fruit Co.. . . .	Aylesford.
Douglas M. Benjamin.. . . .	Gaspereaux.
A. L. Bowles.. . . .	Waterville.
W. H. Chase .. . . .	Wolfville.
Jehiel Davidson.. . . .	Long Island.
H. O. Duncanson.. . . .	Falmouth.
W. Y. Fullerton.. . . .	Hantsport.
M. McHeffey.. . . .	Martock.
A. H. Mitchell.. . . .	Grand Pré.
C. Morse.. . . .	Melvorn Square.
W. A. Parker.. . . .	Canning.
G. F. Roy.. . . .	Kentville.
C. Rumsey.. . . .	Clarence.
John Sexton.. . . .	Falmouth.
J. Timins.. . . .	Waterville.
L. G. White.. . . .	Clarence.

## FRUIT MEETINGS.

The demand upon the staff for attendance at fruit meetings has been greater this year than ever before. Members of the staff have assisted at 145 meetings as follows:

Ontario.. . . .	84
Quebec.. . . .	7
Nova Scotia.. . . .	12
Prince Edward Island.. . . .	42

The policy of having the inspectors employed in educational work between the fruit seasons cannot be too highly commended. It is good for the inspectors and good for the fruit growers. The presence of an inspector is a constant reminder of the oversight which is given to the grading and marking of fruit and the experience which the inspector acquires by contact with the fruit grower in the orchard and in the packing house, enables him to appreciate the conditions under which the fruit grower labours. In this way the inspector is in a position to make a more intelligent enforcement of the Inspection and Sale Act than he otherwise would be.



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In addition to meetings conducted almost exclusively by the inspectors, members of the staff attended and assisted at Short Courses in Fruit Growing at the Agricultural Colleges at Guelph and Truro. The Division was represented, also, at the annual meetings of the Fruit Growers' Associations of the various provinces, at the Winter Fair at Amherst, N.S., and at the National Apple Show in Vancouver, B.C. The inspectors assisted, also, in judging fruit at nine exhibitions.

## MEETINGS IN LAKE HURON DISTRICT.

A special series of meetings was organized in the apple district bordering on Lake Huron, including the following places:—

Lucan,	Dungannon,
Exeter,	Lucknow,
Zurich,	Brussels,
Brucefield,	Wroxeter,
Holmesville,	Walkerton,
Blyth,	Port Elgin,
Auburn.	

These places were chosen from the fact that orcharding succeeds well at all these points, the main criticism being that at the present time the orchards are very much neglected. This is through no fault of the climate or soil, but is the result of a variety of other causes, social and economic, that might easily be remedied.

It is interesting to note that as far as the climate and soil are concerned, orcharding can be recommended most confidently in this district. All these places are in the direct ameliorating influences of Lake Huron, and the height above the level of the sea runs from 673 feet at Port Elgin to 1,125 at Brussels.

It is interesting to note, also, that as you go further east from Lake Huron beyond the 35 mile limit in distance and higher than 1,100 feet, many of the good winter varieties cease to be altogether hardy. Although Lake Huron district is comparatively new, yet it has been settled long enough to have worked out certain problems by a natural process of elimination. The hardness of varieties of apples is one of these problems. If a line be drawn through the places bordering on Lake Huron having an elevation of about 1,100 feet and not being at a greater distance than 25 miles from the lake, it will be found that all the common winter varieties grow to perfection. There may be an occasional case of winter killing through some extraordinary condition, but in the main not only are the trees hardy but the fruit ripens thoroughly, so late, however, that when it is harvested it goes practically into natural cold storage and escapes, after it is packed, the deteriorating influence of warm weather such as is sometimes experienced in Southern Ontario and the United States bordering on Lake Erie and Lake Ontario.

The soil and the climate, too, lend themselves most admirably to orcharding. The whole district is covered with glacial deposits. This for the most part consisting of a friable clay filled with fine gravel with boulders more or less numerous and of varying size. The outstanding features are an abundance of all the elements of plant food and a mechanical condition peculiarly adapted to the growing of trees. The surface is beautifully diversified by slight elevations giving perfect surface drainage but not interfering in any way with cultivation. It is safe to say that nowhere in the world could there be more advantageous natural conditions for the growing of winter apples.

It was an easy task, therefore, to point out that mixed farming, which is so successful a feature of this district, need not be abandoned. Orchardng on a fairly large scale might be added to render farming operations much more profitable than at present. Indeed, this could be demonstrated from local observation. Scattered



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over this district are many very successful farmers following stock raising or dairying. But even the most valuable farms devoted to stock raising and dairying would not command more than \$50 or \$60 per acre for the land without the building improvements. On the other hand, there have been a few cases of late where farms have been sold, the orchards being the chief attraction. In these cases the orchard land had a value of from \$200 to \$400. The cost of putting the orchard on the land was probably not more than \$50 per acre, so that the advance in price could not be attributed wholly to the capital invested. As a matter of fact, the difference between \$50 or \$60 and \$200 or \$400 per acre is the rough estimate of the difference between the revenue derived from the two industries. But the average farmer places no such value upon his orchard because he does not derive the revenue that might be derived from a well cared for orchard. It became necessary, therefore, to account for this discrepancy between the admirable conditions for apple growing and the exceedingly poor quality and the comparatively small quantity of apples that were produced. The explanation was to be found largely in the methods of selling the apples. Few of the orchards were large, and therefore, after the local market—an exceedingly limited one—was supplied, it was not expedient for these small orchardists to reach the long distance market individually. Under the circumstances they sold to apple operators who made a business of collecting small lots from each orchard and shipping to the Northwest or to the Old Country. The evils of this method of collecting the fruit have been so often exposed that it will suffice here to say that each of the evils was intensified in the case of this district from the fact that the orchards were not only small but contained a large number of varieties, many of them being early fruit. Under these circumstances it was almost impossible for an apple operator to give a fair value for the fruit and have a margin for himself. Proper facilities could not be established for handling the fruit. Consequently, large quantities, in the aggregate, of Duchess, Alexanders, Colverts and Janettings were unsaleable and were sacrificed for stock feed for want of proper methods of handling. And even the winter fruit commanded a low price, from the fact that there was only a small quantity in each particular orchard. It was not remarkable, therefore, that the farmers became discouraged and neglected their orchards. This neglect, of course, resulted in a poor quality with reference to blemishes. Scab and Codling Moth are everywhere present and probably not more than 25 per cent in any year and a much smaller percentage in most years would grade as No. 1.

I dwelt much, therefore, in speaking at these meetings, upon the renovation of old orchards, the establishment of co-operative associations among the small growers for the purpose of aggregating their different varieties, and upon the establishment of storage facilities and evaporators in connection with the co-operative associations to utilize profitably what was formerly regarded as orchard waste. I was fortunate in being able to point to the orchard and equipment of Mr. D. Johnson, of Forest, located in the southern part of this district. In this orchard, of forty or more acres, every element of the discouraging features characterizing orcharding of this district is successfully combated. His large orchard gave him a sufficient quantity of the different varieties to command the attention of buyers; but in order to improve conditions, even in his case, he associated with himself a large number of his neighbours to form a co-operative association that has worked most successfully many years. On Mr. Johnson's farm are to be found splendid facilities, made possible by the large quantity of fruit he is growing. He has found it profitable to erect and run an evaporator capable of handling per day 500 bushels of apples below the shipping grade. I pointed out the possibility of forming co-operative associations at almost every one of the places where meetings were held and showed the benefits that would be derived from pruning, spraying and cultivating these old orchards and extending them by new plantings.

Speaking generally, the meetings were well attended and, judging from the

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correspondence which has resulted since, I feel confident that the meetings did a great deal of good.

## AMERICAN POMOLOGICAL SOCIETY.

I attended the 32nd bi-annual session of the American Pomological Society, held February 6th to the 10th, 1911, at Tampa, Florida, U.S.A. This society is international in its work and counts among its members the foremost pomologists of the continent. It reports all the important advances in horticultural science; and its decisions on nomenclature are accepted for North America. Its descriptions of varieties and estimate of their value, have been the largest factor in unifying horticultural practice on this continent; and its meetings afford a place for the discussion of moot subjects and for publishing in proper form new phases of horticultural science and practice. Its reports are the best condensation of progress in fruit growing on the continent.

The programme of this meeting was up to the high standard of former years. The cultivation of citrus fruit was given a prominent place. Perhaps the chief feature of the meeting might be said to be the discussion of the proper methods of orchard heating with a view of preventing frost injuries. This subject, though not of as great importance to the orchards of eastern Canada as to the orchards of the Pacific coast and some of the western and southern states, should still receive serious consideration. Many Canadian orchardists have been subject to severe loss even as recently as this year, owing to frost at the blossoming period, and a few years ago grape growers passed through a series of seasons when the practice of orchard heating would have saved them thousands of dollars. If a similar condition should arise, as is not unlikely, the information which will become common property through the report of this meeting, will prove exceedingly valuable to our orchardists and grape growers.

The question of a uniform package for the United States was touched upon, but no great advance was made, beyond confirming the conviction that uniformity throughout the continent would be extremely desirable.

## INSPECTION IN NOVA SCOTIA.

In Nova Scotia in former years, two inspectors worked on the docks at Halifax during the shipping season, and two visited the stores and packing houses in the Annapolis Valley along the D. A. R. from Windsor to Digby. For the season just closed a change was made whereby the inspectors were concentrated at Halifax. The point of export gave an opportunity of selecting more particularly the brands that needed attention; and on the whole the plan has worked most satisfactorily.

Owing to the short time at the disposal of the inspectors for examining fruit on the docks, helpers have been engaged to open and close the barrels, thus enabling the inspectors to make many more inspections than would be the case if they were obliged to do the whole of the cooper work.

## BROWN TAIL MOTH IN NOVA SCOTIA.

Mr. G. H. Vroom, senior inspector in the maritime provinces, employed a large part of his spare time during the winter and spring months, in assisting the entomological division of the experimental farms in the attempt to eradicate the Brown Tail Moth in Nova Scotia. From his intimate knowledge of the country and his wide acquaintance with the people of the district infected, Mr. Vroom has been able to do most efficient work which has been recognized officially by those who have the work in charge.

## THE GRADING AND MARKETING OF FRUIT AT MONTREAL.

The season of 1910-11 will not be considered a good one by the fruit merchants generally. They found the trade somewhat unsatisfactory, first, because the quantity of fruit was small, and second, because, owing to the scarcity of apples, a large quantity of the lower grades of fruit was shipped. The merchants therefore report that the season has been characterized by a shortage of fruit, with a large proportion of the fruit of poor quality. They are correct in stating that there was a shortage of good fruit, but taking everything into consideration, the quality, perhaps, was much better than usual, but the high prices were an incentive to ship a class of fruit that ordinarily would not bring remunerative prices in any market.

A feature, however, that escaped the notice of many of the merchants was that the grading and marking was never better than this year, notwithstanding the temptation to mark a lower grade of fruit higher than it deserved on account of the scarcity of the higher grades. In no year in the history of the fruit industry was the proportion of properly graded fruit so large as in the season of 1910-11.

In order to show more conclusively how closely the majority of shippers conform to the law in their export packages, I have made an analysis of the work of one of our most careful inspectors at Montreal for September, October and November last. During these months this inspector examined 261 lots of fruit, the work of 89 packers. He inspected an average of something over 6 packages in each lot or a total of 1,785 packages; of these there were 100 packages violating the Inspection and Sale Act, the work of five packers. Each of these cases was carefully investigated and it was found that only two of them were serious enough to merit prosecution, and these two convictions were secured. It will thus be seen that, even a most critical examination could find fault with only 5 per cent of the fruit. If, however, we make allowance for the fact that three of the violations were comparatively trivial and would have escaped notice in a commercial examination, it leaves a very small quantity of the fruit that was not packed and marked according to the law. Nevertheless, this same inspector complains, in his annual report, that the quantity of the low grade fruit being exported, was very large. A careful distinction has to be made, therefore, between the criticisms of the quality of the fruit, over which the Inspection and Sale Act has no control, and criticisms as to conformity to the established grade and the marking required, the only points with which the Inspection and Sale Act deals.

It should be noted further, that in making inspections at the docks, there is usually much more fruit in sight than the inspectors can examine and, therefore, they are obliged to make a selection. In making a selection, they of course choose those brands most likely to be wrong. It is safe to say, therefore, that not more than 2 per cent of the fruit which passed through the Port of Montreal last year violated the Inspection and Sale Act with reference to grading and marking.

## PROHIBITING THE SALE OF LOW GRADE APPLES.

At various times it has been suggested that the export of low grade apples should be prohibited. Had there been such a law in force this year, many individual fruit growers would have suffered serious loss inasmuch as No. 3 apples this season frequently brought higher prices than No. 2 in ordinary years. This, of course, does not settle the question; nevertheless, it is well to note that in a year of scarcity a grade of fruit is acceptable that could not be disposed of at any cost in a year of plenty.

## FOREIGN CAPITAL IN CANADIAN ORCHARDING.

A significant feature of this year in the apple industry is the development of a large number of companies, some of them backed by foreign capital, having for their



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object, in some cases, the planting of new orchards but, for the most part, confining themselves to renting and renovating neglected bearing orchards, particularly in Ontario. It is reported that one company has already secured one hundred thousand trees, all on rental. These schemes cannot be considered as a permanent feature in Canadian orcharding, but they undoubtedly indicate that there is a great want of appreciation of the value of orchards when the operation of such companies can be made profitable. These companies will undoubtedly do good in awakening the great mass of eastern Canadian farmers to the possibilities of their orchards. Some of these companies will undoubtedly fail to make a profit, but many of them will succeed, and the farmer will reason, if he is wise, that if a company can take these orchards and work them as a commercial speculation with the extra expenses and the inevitable hazards of such a scheme, then it is demonstrated beyond a doubt that the owners using the same skill and methods but without the extraordinary expenses of these companies, can realize a much larger profit than the renters could hope to do. It is probable, therefore, that the first effect of these companies will be to greatly improve the methods of orcharding in Ontario, and then, in all probability, most of them will go out of existence at the end of their renting period. Some, however, who have invested in new orchards will in all probability become permanent features in the industry.

## JUDGING FRUIT AT FALL FAIRS.

Nearly ten years ago the Fruit Division inaugurated a campaign for the better judging of fruit and for the revision of the prize list of fall fairs. This reform was well received by the local authorities and now all the fruit growing provinces are revising their prize lists and asking for expert judges and for judging upon specific and uniform principles. Many old and useless varieties have been removed from the prize lists where they remained for years with no other object than to enable some local grower to take a prize. Commercial varieties have been clearly marked off from the amateur varieties; and a decision now is not merely the whim of a single individual but the result of an impartial analysis of the qualities of the fruit, each quality having a predetermined value. Much remains to be done, especially among the smaller fairs; but there has been a very great improvement during the last few years.

Members of the Fruit Division are frequently called upon to act as judges at fruit exhibitions. Mr. Carey in Ontario and Mr. Vroom in the maritime provinces have devoted considerable time to this work. I attended the Kings, Hants and Annapolis Fruit Show at Windsor and assisted in judging the apples there.

A significant feature of the year was the holding of a National Apple show at Vancouver. This was in every way a most successful exhibition and, though necessarily a large quantity of the fruit came from British Columbia, the national character of the show was maintained and a standard was set, which, if followed, will do much to improve the quality as well as the quantity of Canadian fruit.

## FRUIT CROP REPORT.

This feature of the work of the Fruit Division was carried on as usual during the season of 1910. The data is collected from three thousand correspondents distributed very carefully in every county in Canada. The reports of these correspondents are checked and tabulated as soon as they are received, and the results together with information gathered from every source available, is presented month by month. It is safe to say that with the large number of correspondents and the absolute check upon the individuality of particular correspondents, there could be no more authentic record of crops except an actual census. The information of the prospects has been verified as definitely as could be expected by the actual results.

## WEATHER FOR 1910.

No class of agriculturists depend more directly upon the results of the weather than the fruit grower. Consequently this feature is a most important one in any fruit report. The winter of 1909-10 was exceedingly favourable for the fruit crop. The ground was early covered with a blanket of snow which prevented the frost from entering deeply into the soil. Parts of Quebec suffered slightly for want of the usual covering of snow; while, on the contrary, western Ontario had more than the usual quantity.

The winter was particularly free from damages either by the weather or from mice and rabbits; so that the prospects just before the flowering period were exceedingly good. Unfortunately the spring opened somewhat early, three or four weeks earlier even than usual. Then followed the inevitable cold weather which extended into the blossoming period. The forepart of April in eastern Canada was cool and dry. This was succeeded in the early part of May by cold wet weather with frequent white frosts at night, all of which did great damage to the fruit buds. Notwithstanding this, the fruit appeared to set well, but later nearly all this fruit fell off, showing that the frost and other conditions had had an effect.

There were serious frosts the first week in June in nearly all parts of eastern Canada that affected the small fruit crop most seriously. All the strawberries that had been set, or bloom that was out in full, was destroyed. This frost is said to have affected the apple crop also and probably with some truth, although there has been no careful observation that would place this beyond dispute. There were so many other conditions that limited the crop that it would not be logical to attribute the failure of the apple crop in eastern Ontario wholly and solely to these frosts.

In Nova Scotia the weather for the most part was cool and showery and quite unsuitable for the pollination of fruit trees. The total precipitation was not very far from the average, but the temperature was one or two degrees below normal, with a very small amount of sunshine. The fruit growers attribute a great deal of damage to the frost, occurring the 6th of June.

In British Columbia, though the month was cool, it was not so much so as to be seriously detrimental to the fruit crop.

The weather for July and August was deficient in rainfall to such an extent as to seriously affect all kinds of fruit. The small fruits were decidedly short as the result of dry weather, and the serious drop in apples was attributed in part to the frost of June and also to the dry weather of the succeeding months.

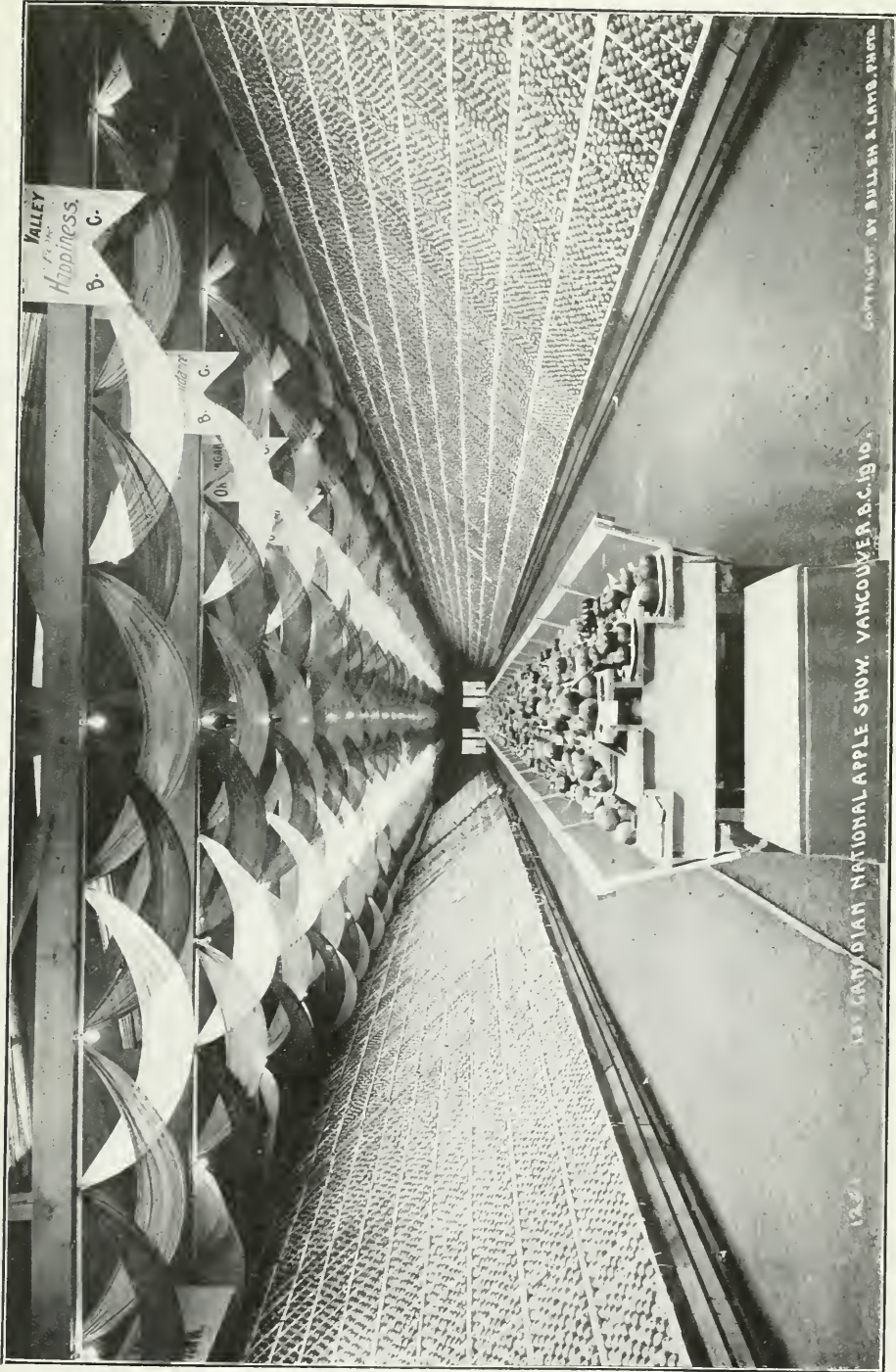
The rainfall the latter part of August was helpful to the apple crop in Ontario and Quebec, while in British Columbia, particularly the coast region, the weather was exceptionally hot and dry. Nova Scotia had very favourable weather for growth, but unfortunately the 'set' of apples was so poor that there was a certainty at that time of a small crop.

A very marked feature of the month of August was the large number of hail storms that prevailed. The effects of these were particularly serious in Ontario in the counties of Essex, Kent and Lambton. The grape crop of Niagara district was the one that suffered seriously in this portion of the province. An exceptional feature in the province of British Columbia was a general frost about the 23rd or 24th of August, which seriously damaged limited areas.

The weather for September was particularly favourable for the apple crop. The precipitation was evenly distributed and ample, with the exception of small portions of Nova Scotia and British Columbia where there was an excess.

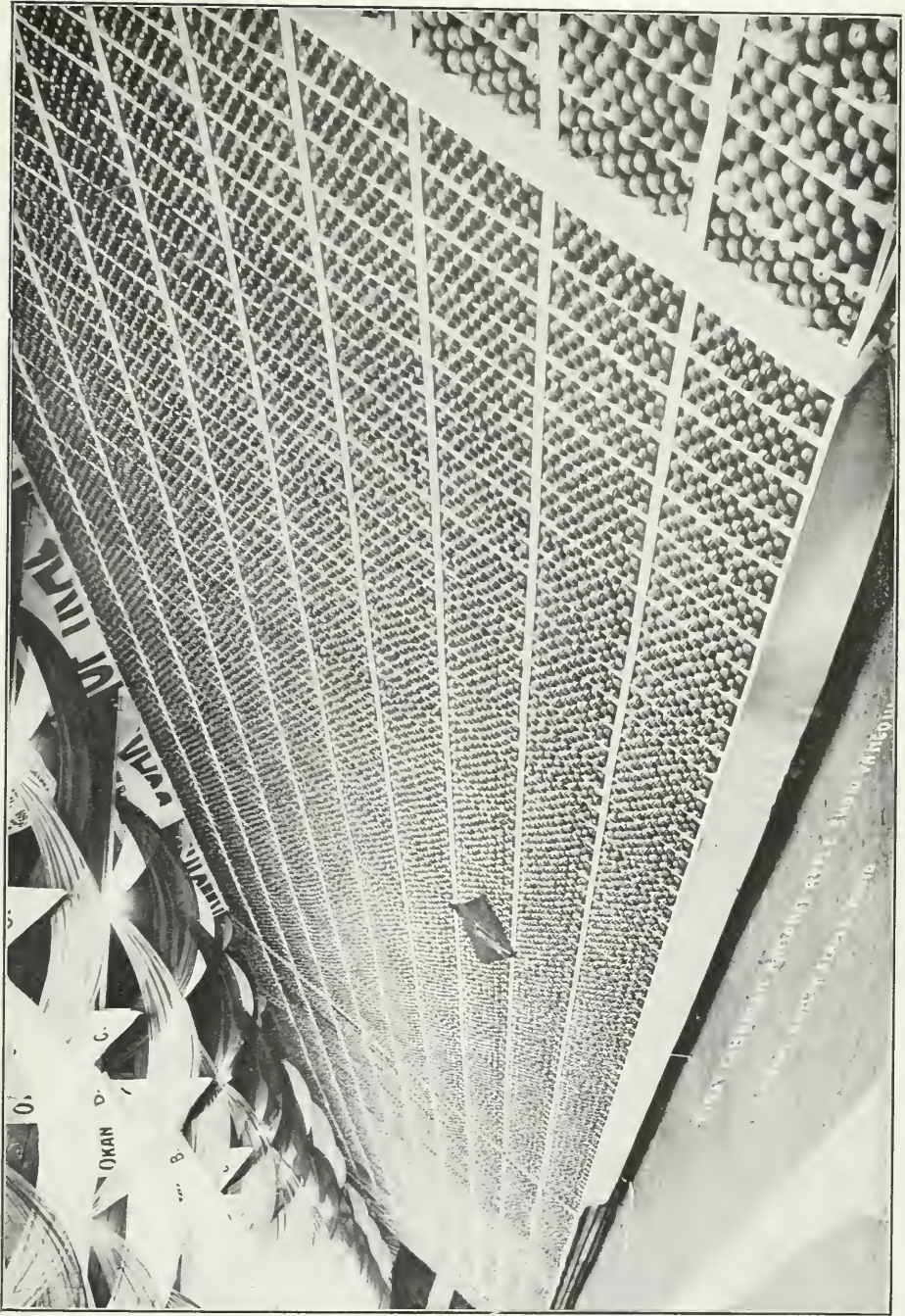
The large amount of sunshine tended to colour apples better than usual, and many of the varieties matured 6 to 10 days earlier than usual. The few early frosts





The Annex National Apple Show, Vancouver, 1910.





The Sweetstake Carload of Apples, National Apple Show, Vancouver, 1910.







Exhibit of Dominion Department of Agriculture, National Apple Show, Vancouver, 1910.





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that occurred were not serious enough, in any district making a specialty of tender fruits, to injure the crop perceptibly. No high winds were reported, except in one or two cases of local storm.

This excellent weather was continued into October, making the fall of 1910 one of the best on record for the apple crop. Unfortunately, the crop was not a large one, but the weather conditions were such as to make a large portion of the crop of excellent quality. The apple crop was gathered without injury from frost and, except that it was somewhat over mature, in excellent condition.

Respectfully submitted,

A. McNEILL,  
*Chief Fruit Division.*



## PART IV.—COLD STORAGE





## PART IV—COLD STORAGE.

## CREAMERY COLD STORAGE BONUSES, 1910.

Out of 27 applications received, the following 21 creameries have received the full bonus of \$100 in 1910.

## QUEBEC.

Name of Creamery.	County.	Owner.	Amount.
			\$
Contrecoeur .....	Vercheres .....	P. E. Cormier .....	100 00
Cowansville .....	Missisquoi .....	T. W. Dunn .....	100 00
Frontier .....	Huntingdon .....	W. H. Stewart .....	100 00
St. Cyprien .....	Temiscouata .....	Lazare Tremblay .....	100 00
St. Didace .....	Maskinonge .....	A. Lafond .....	100 00
St. Dominique .....	Soulanges .....	E. L'Euyer .....	100 00
St. Philemon .....	Bellechasse .....	Syndicat de Beurrieres .....	100 00
St. Vallier .....	" .....	Jos. Roy .....	100 00

## ONTARIO.

Hamilton .....	Wentworth .....	The Pure Milk Co. ....	100 00
Kerwood .....	Middlesex .....	Win. Waddell .....	100 00
Jarvis .....	Haldimand .....	Wm. Parkinson .....	100 00
Lynn Valley .....	Norfolk .....	R. W. Caswell .....	100 00
New Dundee .....	Waterloo .....	Farmers Co-operative Association .....	100 00

## ALBERTA.

Conjuring Creek .....	.....	C. B. Shanty .....	100 00
Culham .....	.....	Content Creamery Association .....	100 00
Ponoka .....	.....	W. J. Hoar .....	100 00
Spring Lake .....	.....	Spring Lake Dairy Co. ....	100 00
Rosenroll .....	.....	A. C. Hover .....	100 00

## NEW BRUNSWICK.

Norton .....	Kings .....	W. A. Reynolds .....	100 00
Victoria Mills .....	Carleton .....	A. J. Main .....	100 00
Paid to Chas Gravel, L'Assomption, Que., on an old application .....			50 00
Total, 21 creameries .....			2,050 00

## SUMMARY OF BONUSES PAID SINCE 1897.

419 creameries have received the full bonus of \$100 .....	\$	41,900
145 " " " \$75 00 .....		10,875
139 " " " \$50 00 .....		6,950
Total...703 " .....	\$	59,725

## ICED CAR SERVICES.

## ICED BUTTER CARS.

The iced butter cars were run regularly every week, according to a published schedule, from May 16 to October 15, on the Grand Trunk and Canadian Pacific railway lines in Ontario and Quebec; on the Péré Marquette; the Canadian Northern, Quebec; the Central Vermont in Quebec; the Intercolonial; the Quebec Central; the Quebec, Montreal and Southern and the Napierville Junction railway.

There were in all sixty-four different routes to Montreal and Quebec. The Department guaranteed two-thirds of the earnings of a minimum carload plus \$4 per car for icing. These cars are available for shipments of butter in any quantity at the regular rates, but the main advantage for the shippers lies in the facility for securing an iced car service for small quantities. Without this arrangement, shippers would have to use the ordinary cars or pay the charges for a carload on small quantities in refrigerator cars. The service for 1910 was operated at considerably less cost than in 1909. Three travelling inspectors are employed to go over the routes followed by all the iced cars. These inspectors report through the Extension of Markets Division.

## ICED CHEESE CARS.

This service has in previous years been in operation for ten weeks only, beginning about July 5th or 6th. It was decided to extend the period by one week and to have it begin on the 20th of June, which gave very much better satisfaction to shippers. In this service the Department agrees to accept bills, for the icing of a limited number of cars on each of the principal lines of railway, to the extent of \$5 per car. The cars are supplied by the railway agent on demand of shippers for shipments of cheese in carloads. The railways supplied 900 cars under this arrangement in 1910.

## ICED FRUIT CARS.

The iced fruit car service, which is operated on the same plan as the iced cheese car service, was available from August 1 to October 1, 1910. One hundred cars were supplied under this arrangement.

## RESERVATION OF COLD STORAGE CHAMBERS FOR FRUIT.

The quantity of tender fruit offered for export in cold storage by any one shipper is usually too small to warrant the steamship agents in agreeing to operate a whole chamber for it. It is not lack of cold storage, but lack of fruit which creates the difficulty. During the past three seasons the Minister has authorized the Dairy and Cold Storage Commissioner to reserve a small chamber on certain steamers for the carriage of fruit only, the Department of Agriculture to guarantee the earnings on the space represented by the chamber up to 3,000 cubic feet. This arrangement was extended to eleven steamers in 1910, sailing to London, Liverpool, Glasgow and Bristol, from September 8th to October 1st. As a result of this policy, there has been a large increase in the quantity of tender fruit exported, because without some such arrangement, it would be practically impossible to ship any kind of fruit requiring cold storage.

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SHIPMENTS of Canadian Apples and Tender Fruits from the Port of Montreal during the season of navigation, 1905 to 1910, inclusive.

Years.	Canadian Produce.	In Cold Storage.	In Cooled Air.	With Ordinary Cargo.	Total.
1905 .....	Apples. .... Brls.	7,944	4,633		12,577
	" .... Boxes.	4,332	2,903		7,235
	Tender fruits. .... Pkgs.	5,211	46		5,257
1906 .....	Apples. .... Brls.	8,536	3,878	366,363	378,777
	" .... Boxes.	5,100	553	17,777	23,430
	Tender fruits. .... Pkgs.	1,762	2,103	173	4,038
1907 .....	Apples. .... Brls.	6,131	1,729	594,449	602,309
	" .... Boxes.	500	3,232	25,240	28,972
	Tender fruits. .... Pkgs.	754		87	841
1908 .....	Apples. .... Brls.	6,199	1,338	318,068	325,515
	" .... Boxes.	2,077	25	19,731	21,833
	Tender fruits. .... Pkgs.	11,935	2,404	1,279	15,618
1909 .....	Apples. .... Brls.	5,138	2,447	539,726	547,311
	" .... Boxes.	3,304		31,451	34,755
	Tender fruits. .... Pkgs.	10,846			10,846
1910 .....	Apples. .... Brls.	13,973	12,398	133,225	159,596
	" .... Boxes.	4,985	281	18,035	23,301
	* Tender fruits. .... Pkgs.	14,557		91	14,648

\* This includes 3,743 cases of peaches shipped in cold storage.

SHIPMENTS of Apples from the Port of Quebec during the season of navigation, 1905 to 1910, inclusive.

Years.	Canadian Produce.	In Cold Storage.	In Cooled Air.	With Ordinary Cargo.	Total.
1905 .....	Apples. .... Brls.				
1906 .....	" .... "			13,882	13,882
1907 .....	" .... "			40,331	40,331
1908 .....	" .... Boxes.	2,871		24,798	27,669
	" .... Brls.	2,912		200	3,112
1909 .....	" .... Boxes.		51	28,405	28,405
1910 .....	" .... Brls.		1,058	620	1,678
	" .... Boxes.		2,648		2,648

SHIPMENTS of United States Apples and Tender Fruits from the Port of Montreal during the season of navigation, 1905 to 1910, inclusive.

Years.	United States Produce.	In Cold Storage.	In Cooled Air.	With Ordinary Cargo.	Total.
1905 .....	Apples. .... Brls.				
	Tender fruits. .... Pkgs.	45,223	3,219		48,442
1906 .....	" .... "	29,581			29,581
1907 .....	" .... Boxes.	11,118			11,118
	Apples. .... Brls.			24,701	24,701
	" .... Boxes.		796		796
1908 .....	Tender fruits. .... Pkgs.	12,569	22,858		35,427
1909 .....	" .... Cases.	27,274		1,492	28,766
1910 .....	" .... Cases.	48,917			48,917
	Apples. .... Brls.	6			6
	" .... Boxes.		9,023	5,750	14,773

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SHIPMENTS of Perishable Products from the Port of Montreal, season 1910. (United States Products included.)

		In Cold Storage.	In Cooled Air.	With Ordinary Cargo.
Apples—Canadian	Brls.	13,973	12,398	133,225
" " U. S. A.	Boxes.	4,985	281	18,035
" " " " " "	Brls.	6		
" " " " " "	Boxes.		9,023	5,750
Butter—Canadian	Pkgs.	30,058		
Cheese " " " "	Boxes.		480,413	1,400,944
Meats " " " "	"	10,561	6,674	13,086
" " " " " "	Bags.	284		
" " U. S. A.	Boxes.	24,946	610	45,729
Beef—Canadian	Quarters.	751		
Salmon " " " "	Boxes.	934		
Poultry " " " "	Cases.	366		
Lard " " " "	Pkgs.	63		
" " U. S. A.	"	26,391	12,238	379,650
Pears—Canadian	Brls.	296		
" " " " " "	Cases.	10,518		91
" " U. S. A.	Brls.	401		
" " " " " "	Cases.	26,483		
Peaches—Canadian	"	3,743		
Fruit—Canadian	Mixed lots.	387		
" " U. S. A.	"	26,033		

SHIPMENTS of Perishable Products from the Port of Quebec, season 1910. (United States Products included.)

		In Cold Storage.	In Cooled Air.	With Ordinary Cargo.
Apples—Canadian	Brls.		1,058	620
" " " " " "	Boxes.		2,648	
Cheese " " " "	"		2,552	15,353
Meats " " " "	"		2,371	1,891
" " U. S. A.	"		7,097	5,475
Lard " " " "	Pkgs.			31,935
Salmon—Canadian	Boxes.	783		
Poultry " " " "	Cases.	825		
Eggs " " " "	"			72

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## THERMOGRAPHS.

The Department now owns a sufficient number of recording thermometers (thermographs) to enable the officers of the Extension of Markets Division to place one or more with practically every cargo of perishable produce shipped from Montreal, Quebec, Halifax or Vancouver in cold storage, cooled air, or as ordinary cargo.

## THERMOGRAPHS PLACED IN STEAMSHIPS, SEASON 1910.

From Montreal and Quebec.	WHERE PLACED IN STEAMSHIPS.		
	In Cold Storage.	In Cooled Air.	With Ordinary Cargo.
	Times.	Times.	Times.
To Bristol—			
Cheese, meats and lard.....	13	20	41
Butter and lard.....	21	..	..
Fruits.....	6	..	1
To Glasgow—			
Cheese, meats and lard .....	27	..	31
Butter and lard.....	6	..	..
Fruits.....	35	..	25
To Liverpool—			
Cheese, meats and lard.....	51	5	113
Butter.....	8	..	..
Fruits.....	12	1	19
Frozen salmon.....	5	..	..
To London—			
Cheese, meats and lard.....	19	36	70
Butter.....	7	..	..
Fruits.....	10	3	16
Frozen salmon.....	2	..	..
To Manchester—			
Cheese, meats and lard .....	..	..	30
Butter and lard.....	1	..	..
Fruit.....	..	..	5
Poultry.....	1	..	..
To South Africa—			
Apples.....	2	..	..
Cheese and lard.....	1	..	..
From Vancouver to Australia—			
Apples.....	2	..	..
From Charlottetown, P.E.I., to Montreal—			
Cheese.....	..	..	2

There were also 28 records obtained with cheese and apples from Halifax to London, and 10 records with apples from Halifax to Liverpool.



## SUMMARY.

Total number of thermographs placed in steamships in cold storage, in cooled air and with ordinary cargo, season 1910.

To	In Cold Storage.	In Cooled Air.	With Ordinary Cargo.
	Times.	Times.	Times.
Bristol.....	40	20	42
Glasgow.....	68	..	56
Liverpool.....	76	6	132
London.....	38	39	86
Manchester.....	2	..	35
South Africa.....	3	..	..
Australia.....	2	..	..
	229	65	351

Montreal and Quebec—Great Britain.....	640
Halifax—London.....	28
Halifax—Liverpool.....	10
Montreal—South Africa.....	3
Vancouver—Australia.....	2
Charlottetown—Montreal.....	2

Grand total for 1910 ..... 685

## SESSIONAL PAPER No. 15a

NUMBER of Sailings of Steamers from Montreal and Quebec, with details of Cold Storage Accommodation, Season 1910.

Name of Steamer.	Number of Sailings.	Number of Chambers.	Total Capacity in Cubic feet.
<i>Allan Line.</i>			
To Liverpool—			
Tunisian.....	7	4	21,650
Corsican.....	8	5	24,270
Victorian.....	7	5	17,260
Virginian.....	7	4	12,440
To London—			
Hibernian.....	3	3	7,956
Lake Erie.....	5	4	21,700
Corinthian.....	5	4	16,722
Sardinian.....	5	2	9,628
Sicilian.....	5	3	14,700
Pomeranian.....	4	2	8,056
To Glasgow—			
Hesperian.....	7	5	23,400
Ionian.....	8	6	13,553
Pretorian.....	7	6	25,270
Grampian.....	4	5	23,400
Southwark.....	2	1	25,313
<i>Canadian Pacific Line.</i>			
To Liverpool—			
Empress of Britain.....	8	3	29,700
Empress of Ireland.....	7	3	29,700
Montrose.....	1	2	20,950
To London—			
Montfort.....	5	3	24,700
Montrose.....	4	2	20,950
To Bristol—			
Monmouth.....	5	2	15,400
Montcalm.....	6	1	16,730
<i>White Star—Dominion Line.</i>			
To Liverpool—			
Dominion.....	8	4	40,985
Megantic.....	7	4	27,240
Canada.....	7	4	47,915
Laurentic.....	7	4	27,240
To Bristol—			
Cornishman.....	6	2	28,560
Englishman.....	1	4	37,600
Mauxman.....	5	3	54,160
Welshman.....	4	4	46,920
Turcoman.....	3	4	38,440
<i>Donaldson Line.</i>			
To Glasgow—			
Cassandra.....	6	3	6,100
Saturnia.....	5	3	7,590
Parthenia.....	2	4	13,862
Athenia.....	6	4	16,122
Lakonia.....	6	4	12,400
<i>Thomson Line.</i>			
To London—			
Cervona.....	5	4	15,320
Cairurona.....	5	6	18,624
Bevona.....	5	3	21,953
Hurona.....	5	4	20,487
Iona.....	6	4	18,472
Tortona.....	4	2	9,000

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NUMBER of Sailings of Steamers, &c.—*Continued.*

Name of Steamer.	Number of Sailings.	Number of Chambers.	Total Capacity in Cubic feet.
<i>Royal Line.</i>			
To Bristol—			
Royal George.....	7	2	10,900
Royal Edward.....	7	2	10,900
<i>Manchester Liners.</i>			
To Manchester—			
Manchester Trader....	5	1	3,000
<i>Elder Dempster Line.</i>			
To South Africa—			
Canada Cape.....	2	5	66,000
Melville.....	1	6	59,647
Bendu.....	2	2	9,000
Benin.....	1	2	9,000
Kwarra.....	1	2	10,000

## COOLED AIR SERVICE, 1910.

Name of Steamer.	Number of Sailings.	Cubic Feet Space.
<i>Allan Line—</i>		
Southwark.....	2	41,472
Hibernian.....	3	45,540
Corinthian.....	5	25,000
Sardinian.....	5	17,600
Sicilian.....	5	27,480
Pomeranian.....	4	26,000
<i>Canadian Pacific Line—</i>		
Montcalm.....	6	18,668
Monmouth.....	5	19,443
<i>Dominion Line—</i>		
Englishman.....	1	18,617
Manxman.....	5	41,585
Turcoman.....	3	40,491
Canada.....	7	46,904
<i>Thornson Line—</i>		
Cairnrona.....	5	76,739
Cervona.....	5	97,530
Devona.....	5	97,574
Hurona.....	5	79,707
Tortona.....	4	88,547
Iona.....	6	80,178

## COLD STORAGE SUBSIDIES.

Contracts for the payment of subsidies under the Cold Storage Act have been entered into during the year as follows:—

The St. Lawrence Produce Co., Brockville, Ont.  
 Scott, Ashton & Co., Morrisburg, Ont.  
 Flavelles, Limited, Lindsay, Ont.  
 The Acadia Cold Storage Co., Halifax, N.S.  
 Gunns, Limited, Harriston, Ont.

Applications are now under consideration from:—

The Maritime Fresh Milk Co., Antigonish, N.S.  
 The Northern Packing Co., Prince Albert, Sask.  
 Campbell & Hamilton, Calgary, Alta.  
 The Brandon Cold Storage Co., Brandon, Man.

## COST OF COLD STORAGE WAREHOUSES.

Many inquiries are received at this office from those who desire to know the probable cost of a cold storage warehouse of a given capacity. There are so many factors that have an influence in fixing the cost of a cold storage warehouse, such as the class of building, the character of the insulation, the proportion of high and low temperature space, the size of the warehouse, &c., that it is impossible to give any but an approximate answer to such questions.

The cost, with some particulars of the construction, and the size in cubic feet, of some of the warehouses which have been subsidized under the Cold Storage Act, is given below to afford some information on this subject. All names and location of the warehouses are indicated by numbers only. The class of construction for the buildings, apart from the insulation, is represented by letters thus:—

A—Wooden building.

B—Brick or concrete walls, 'mill construction floors.'

C—Reinforced concrete.

D—Brick, stone or concrete, ordinary floors.

Class of Building.	Size of Building.	Insulation.	Refrigerated space.	Cost exclusive of site.
	Cubic feet.		Cubic feet.	\$
1 B	974,622	Cork.....	700,224	167,000·00
2 D	372,000	Hair felt and shavings .....	105,000	31,019·62
3 A	142,218	Shavings.....	37,960	27,386·69
4 C	744,488	Cork .....	346,538	160,500·00
5 D	71,520	Cork.....	37,161	23,577·00
6 B	202,262	Lith.....	64,000	65,000·00
7 A	100,000	Shavings.....	50,000	18,682·00
8 D	220,000	Shavings.....	33,600	20,000·00
9 A	108,040	Cork and shavings.....	59,940	57,500·00
10 B	356,400	Cork.....	225,000	158,043·00
11 B	270,000	Cork.....	111,050	60,000·00
12 D	200,000	Hair felt and shavings.....	131,510	49,000·00

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It will be observed that there is considerable difference in the cost of the warehouses in this list on a cubic foot basis. The difference is owing to the fact that some of them are wholly equipped for very low temperature for fish freezing, while others have a large proportion of space intended for fruit or egg storage at non-freezing temperatures. The difference between the total space and the refrigerated space is represented by engine rooms, receiving and delivery rooms, corridors, packing floors, &c.

J. A. RUDDICK,  
*Dairy and Cold Storage Commissioner.*







